



Red Hat JBoss Fuse 6.1

Console Reference

Quick access to the commands used to manage the broker

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Quick access to the commands used to manage the broker

JBoss A-MQ Docs Team

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Abstract

The primary interface for managing a container is the command console. This reference provides an easy way to see the commands, their syntax, and options.

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CHAPTER 1. USING THE COMMAND CONSOLE

OVERVIEW

The Red Hat JBoss Fuse command console is the central tool for both managing the JBoss Fuse environment and interacting with Fuse Fabric. When you start JBoss Fuse the console starts automatically.

The console provides commands that you can use to perform basic management of your JBoss Fuse environment, including deploying and configuring applications.

The console uses prefixes to group commands relating to the same functionality. For example, commands related to configuration are prefixed **config:**, and logging-related commands are prefixed **log:**.

STARTING THE COMMAND CONSOLE

To start JBoss Fuse, open a command prompt in the installation directory and enter:

| | |
|---------|-----------------|
| Windows | bin\fuse |
| *NIX | bin/fuse |

JBoss Fuse starts and the console is ready. You should see a prompt similar to this:

```

  _ _ _ _ _ _ _ _ _ | | _ \ | _ _ | | | |_) | _ _ _ _ _ | | _ _ _ _ _ _ _ _ |
 | _ < / _ \ / _ / _ | | _ | | | / _ | / _ \ | | _ | | |_) | ( ) \_ \_ \ | |
 | | | \_ \ _ / \_ / | _ / \_ / | _ / _ / | | \_ , _ | _ / \_ | JBoss Fuse
 (6.0.0.redhat-xxx)
 http://www.redhat.com/products/jbossenterprisemiddleware/fuse/ Hit '<tab>'
 for a list of available commands and '[cmd] --help' for help on a specific
 command. Hit '<ctrl-d>' or 'osgi:shutdown' to shutdown JBoss Fuse.
 JBossFuse:karaf@root

```

GETTING HELP

The console provides two levels of help:

- console help—lists all of the commands along with a brief summary of the commands function
- command help—provides a detailed description of a command and its arguments

To access the console help, enter the **help** command from the console prompt. It displays a grouped list of all the commands available in the console. Each command in the list is followed by a description, as shown in [Example 1.1, “Console Help”](#).

Example 1.1. Console Help

```

JBossFuse:karaf@root> help
COMMANDS activemq:browse activemq:bstat activemq:create-broker Creates a
broker instance. activemq:destroy-broker Destory a broker instance.

```

```
activemq:list activemq:purge activemq:query admin:change-opts Changes
the Java options of an existing container instance. admin:change-rmi-
registry-port Changes the RMI registry port (used by management layer)
of an existing container instance.
```

```
...
JBossFuse:karaf@root>
```

The help for each command includes the definition, the syntax, and the arguments and any options. To display the help for a command, type the command with the **--help** option. As shown in [Example 1.2, “Help for a Command”](#), entering **admin:start --help** displays the help for that command.

Example 1.2. Help for a Command

```
JBossFuse:karaf@root> admin:start --help
DESCRIPTION admin:start Starts an existing container instance. SYNTAX
admin:start [options] name ARGUMENTS name The name of the container
instance OPTIONS --help Display this help message -o, --java-opts Java
options when launching the instance
JBossFuse:karaf@root>
```

COMMAND COMPLETION

Pressing **Tab** at anytime provides you with a list of commands that can complete what you have already entered at the prompt. For example, if you enter **active** followed by **Tab**, a list similar to [Example 1.3, “Console Commands”](#) is shown.

Example 1.3. Console Commands

```
activemq:browse activemq:bstat activemq:create-broker activemq:destroy-
broker activemq:list activemq:purge activemq:query JBossA-MQ:karaf@root>
```

If you press **Tab** without entering anything at the prompt, the console lists all of the available commands.

COMMAND GROUPS

Commands are grouped under prefixes according to functionality. [Table 1.1, “Apache ActiveMQ Command Groups”](#) summarizes the command groups available in the console. Click on a command group name for more information.

Table 1.1. Apache ActiveMQ Command Groups

| Command Group | Description |
|--------------------------|--|
| activemq | Views and manages brokers and messages. |
| admin | Creates, manages, and destroys containers. |

| Command Group | Description |
|---------------|---|
| camel | Manages Apache Camel contexts and routes |
| config | Manages configuration. |
| cxfr | Manages Apache CXF buses and endpoints. |
| dev | Utilities that are useful for a developer while testing bundles in the container. |
| fab | Manages the dependency resolution mechanism used by Fuse Application Bundles. |
| fabric | Performs provisioning and configuration using Fuse Fabric. |
| features | Performs provisioning based on Apache Karaf feature specs. |
| jaas | Manages the console's security settings. |
| jbi | Manage deployed JBI artifacts. |
| log | Displays and configures logging. |
| nmr | Lists NMR endpoints. |
| obr | Accesses the OSGi Bundle Repository (OBR). |
| osgi | Manages OSGi bundles. |
| packages | Lists imported and exported packages. |
| patch | Manages patches. |
| shell | Performs basic console functions |
| ssh | Creates and connects to a remote SSH server |
| web | Lists the WARs deployed in the container. |
| zk | Accesses and modifies entries in the Zookeeper registry. |

SHORT VERSION

Many of the console commands allow you to omit the group prefix.

If the command is only in one command groups, you can omit the group prefix. For example, you can enter **bstat** in place of **activemq:bstat** because it only exists in the activemq command group.

If the command exists in multiple command groups, you can still drop the prefix and the console will default to using the version of the command from one of the following command groups:

- shell
- osgi
- admin

For example, **info** is equivalent to **shell:info**. If you wanted to use **osgi:info**, you need to enter the full command.

CHAPTER 2. SHELL CONSOLE COMMANDS

The shell command group provides a number of commands that provide basic console functions such as displaying system information and showing the contents of files.

Type **shell**: then press **Tab** at the prompt to view the commands in this group.

NAME

shell:cat, cat — displays the contents of a file or URL

SYNOPSIS

```
shell:cat [ -n ] [ --help ] { [ path ] | [ URL ] }
```

ARGUMENTS

Table 2.1, “[shell:cat Arguments](#)” describes the arguments for this command.

Table 2.1. shell:cat Arguments

| Argument | Interpretation |
|--------------------|--|
| -n | Display line numbers. |
| --help | Displays the online help for this command |
| <i>path</i> | The path(s) of the file to display, separated by whitespace (separated by - for STDIN) |
| <i>URL</i> | The URL(s) to display, separated by whitespace (separated by - for STDIN) |

NAME

shell:clear, clear — clears the console buffer

SYNOPSIS

```
shell:clear [ --help ]
```

ARGUMENTS

Table 2.2, “[shell:clear Arguments](#)” describes the command's arguments.

Table 2.2. shell:clear Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |

NAME

shell:each, each — execute a closure on a list of arguments

SYNOPSIS

```
shell:each [ --help ] { values } { function }
```

ARGUMENTS

Table 2.3, “[shell:each Arguments](#)” describes the command's arguments.

Table 2.3. shell:each Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>values</i> | The collection of arguments to iterate over. |
| <i>function</i> | The function to execute. |

NAME

shell:echo, echo — prints arguments to the standard output

SYNOPSIS

```
shell:echo [ --help ] [ -n ] { argument ... }
```

ARGUMENTS

Table 2.4, “[shell:echo Arguments](#)” describes the command's arguments.

Table 2.4. shell:echo Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>-n</code> | Do not print the trailing newline character. |
| <i>argument</i> | Specifies a space delimited list of arguments to print. |

NAME

shell:exec, exec — executes system processes

SYNOPSIS

```
shell:exec [ --help ] { command }
```

ARGUMENTS

Table 2.5, “[shell:exec Arguments](#)” describes the command's arguments.

Table 2.5. `shell:exec` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>command</i> | Specifies the command, with arguments, to execute. |

NAME

`shell:grep`, `grep` — displays lines matching a regular expression

SYNOPSIS

```
shell:grep [ --help ] [[ -i ] | [ --ignore-case ] ] [[ -w ] | [ --word-regexp ] ] [[ -n ] | [ --line-number ] ] [[ -x ] | [ --line-regexp ] ] [[ -v ] | [ --invert-match ] ] { regex }
```

ARGUMENTS

Table 2.6, “[shell:grep Arguments](#)” describes the command's arguments.

Table 2.6. `shell:grep` Arguments

| Argument | Interpretation |
|--|--|
| <code>--help</code> | Displays the online help for this command. |
| <code>-i</code> , <code>--ignore-case</code> | Ignore case distinctions in both the <i>regex</i> and the input files. |
| <code>-w</code> , <code>--word-regexp</code> | Select only lines containing matches that form whole words. A match qualifies if it meets one of the following conditions: <ul style="list-style-type: none"> • The matching string is at the beginning of the line. • The matching string is preceded by a non-word constituent character. • The matching string is at the end of the line. • The matching string is followed by a non-word constituent character. |
| <code>-n</code> , <code>--line-number</code> | Display the line number of the match within its input file. |

| Argument | Interpretation |
|---------------------------|---|
| -x, --line-regexp | Selects only those matches that exactly match the whole line. |
| -v, --invert-match | Select non-matching lines. |
| <i>regex</i> | Specifies the regular expression to match. |

NAME

shell:head, head — displays the first lines of a file

SYNOPSIS

```
shell:head [ --help ] [ -n numLines ] { [ path ] | [ URL ] }
```

ARGUMENTS

Table 2.7, “[shell:head Arguments](#)” describes the command's arguments.

Table 2.7. shell:head Arguments

| Argument | Interpretation |
|---------------|--|
| --help | Displays the online help for this command. |
| -n | Specifies the number of lines to display. Default is 1. |
| <i>path</i> | The path(s) of the file to display, separated by whitespace (separated by - for STDIN) |
| <i>URL</i> | Specifies the URL(s) to display, separated by whitespace (separated by - for STDIN) |

NAME

shell:history, history — prints the command history

SYNOPSIS

```
shell:history [ --help ]
```

ARGUMENTS

Table 2.8, “[shell:history Arguments](#)” describes the arguments for this command.

Table 2.8. shell:history Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

shell:if, if — executes an if/then/else block

SYNOPSIS

```
shell:if [ --help ] { condition } { ifTrue } [ ifFalse ]
```

ARGUMENTS

Table 2.9, “[shell:if Arguments](#)” describes the command's arguments.

Table 2.9. shell:if Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>condition</i> | Boolean condition. |
| <i>ifTrue</i> | Function to evaluate, if condition is true. |
| <i>ifFalse</i> | Function to evaluate, if condition is false. |

NAME

shell:info, info — displays system information and statistics about the container

SYNOPSIS

```
shell:info [ --help ]
```

ARGUMENTS

Table 2.10, “[shell:info Arguments](#)” describes the command's arguments.

Table 2.10. shell:info Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this utility |

NAME

shell:java, java — execute a Java application

SYNOPSIS

shell:java [--help] [[-m] | [--method] *methodName*] { *className* } [*arguments*]

ARGUMENTS

Table 2.11, “shell:java Arguments” describes the command's arguments.

Table 2.11. shell:java Arguments

| Argument | Interpretation |
|---|--|
| <code>--help</code> | Displays the online help for this command |
| <code>-m</code> , <code>--method</code> | Specifies the name of a method to invoke. The default is <code>main()</code> . |
| <i>className</i> | Specifies the name of the class to invoke. |
| <i>arguments</i> | Specifies the arguments to pass to the method of the given <i>className</i> . |

NAME

shell:logout, logout — disconnects the shell from the current session

SYNOPSIS

shell:logout [--help]

ARGUMENTS

Table 2.12, “shell:logout Arguments” describes the command's arguments.

Table 2.12. shell:logout Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

shell:more, more — displays output as pages of a specified length

SYNOPSIS

shell:more [--help] [--lines *numLines*]

ARGUMENTS

Table 2.13, “shell:more Arguments” describes the command's arguments.

Table 2.13. `shell:more` Arguments

| Argument | Interpretation |
|----------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>--lines</code> | Specifies the number of lines to display before pausing. |

NAME

`shell:new`, `new` — creates a new Java object of the specified class

SYNOPSIS

```
shell:new [ --help ] { class } [ arg ...]
```

ARGUMENTS

Table 2.14, “[shell:new Arguments](#)” describes the command's arguments.

Table 2.14. `shell:new` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>class</i> | The class of the object to create. |
| <i>args</i> | The constructor arguments. |

NAME

`shell:printf`, `printf` — formats and prints the specified output

SYNOPSIS

```
shell:printf [ --help ] { format } { arguments }
```

ARGUMENTS

Table 2.15, “[shell:printf Arguments](#)” describes the command's arguments.

Table 2.15. `shell:printf` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>format</i> | The output format pattern to use |

| Argument | Interpretation |
|------------------|--|
| <i>arguments</i> | The arguments for the given format pattern |

NAME

shell:sleep, sleep — sleeps for a specified time, then wakes up

SYNOPSIS

```
shell:sleep [ --help ] [[ -s ] | [ --second ] ] { duration }
```

ARGUMENTS

Table 2.16, “[shell:sleep Arguments](#)” describes the command's arguments.

Table 2.16. shell:sleep Arguments

| Argument | Interpretation |
|---------------------|--|
| --help | Displays the online help for this command |
| -s, --second | Specify the duration in seconds (instead of milliseconds). |
| <i>duration</i> | The time to sleep in milliseconds (default) or in seconds (with the -s option). |

NAME

shell:sort, sort — writes a sorted concatenation of the specified files to standard output

SYNOPSIS

```
shell:sort [ --help ] [[ -t ] | [ --field-separator ] sep] [[ -b ] | [ --ignore-leading-blanks ] ] [[ -f ] | [ --ignore-case ] ] [[ -r ] | [ --reverse ] ] [[ -k ] | [ --key ] keys] [[ -n ] | [ --numeric-sort ] ] [[ -u ] | [ --unique ] ] { file ... }
```

ARGUMENTS

Table 2.17, “[shell:sort Arguments](#)” describes the command's arguments.

Table 2.17. shell:sort Arguments

| Argument | Interpretation |
|------------------------------|---|
| --help | Displays the online help for this command |
| -t, --field-separator | Specifies a character to use as a field separator. The default is whitespace. |

| Argument | Interpretation |
|------------------------------------|--|
| -b, --ignore-leading-blanks | Ignores leading blanks. |
| -f, --ignore-case | Ignores case when sorting. |
| -r, --reverse | Reverses the result of the sort. |
| -k, --key | Specifies a space delimited list of fields to use for sorting. |
| -n, --numeric-set | Compares according to string numerical value. |
| -u, --unique | Outputs only the first of an equal run. |
| <i>files</i> | Specifies a space delimited list of files to sort. |

NAME

shell:source, source — run a shell script

SYNOPSIS

```
shell:source [ --help ] { script } [ arguments ]
```

ARGUMENTS

Table 2.18, “[shell:source Arguments](#)” describes the command's arguments.

Table 2.18. shell:source Arguments

| Argument | Interpretation |
|-------------------------|---|
| --help | Displays the online help for this command |
| <i>script</i> | A URI pointing to the script |
| <i>arguments</i> | Arguments to pass to the script |

NAME

shell:tac, tac — captures the STDIN and returns it as a string and optionally writes the content to a file

SYNOPSIS

```
shell:tac [ --help ] [ -f fileName ]
```

ARGUMENTS

Table 2.19, “[shell: tac Arguments](#)” describes the command's arguments.

Table 2.19. shell: tac Arguments

| Option | Interpretation |
|---------------|--|
| --help | Displays the online help for this command |
| -f | Specifies the name of the file into which the output is written. |

NAME

shell:tail, tail — displays the last lines of a file

SYNOPSIS

```
shell:head [ --help ] [ -n lineNum ] [ -s seconds ] [ -f ] { [ path ] | [ URL ]...}
```

ARGUMENTS

Table 2.20, “[shell: tail Arguments](#)” describes the command's arguments.

Table 2.20. shell: tail Arguments

| Argument | Interpretation |
|---------------|--|
| --help | Displays the online help for this command. |
| -n | Specifies the number of lines to display. The default is 1. |
| -s | Specifies the interval, in seconds, to sleep before checking for changes to display. |
| -f | Follow file changes. |
| <i>path</i> | A space delimited list of file paths to display. |
| <i>URL</i> | A space delimited list of file URLs to display. |

NAME

shell:watch, watch — watches and refreshes the output of a command

SYNOPSIS

```
shell:watch [ --help ] [ [ -n ] | [ --interval ] seconds ] { command }
```

ARGUMENTS

Table 2.21, “[shell:watch Arguments](#)” describes the command's arguments.

Table 2.21. `shell:watch` Arguments

| Argument | Interpretation |
|-----------------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>-n, --interval</code> | Specifies the interval, in seconds, between executions of the command. The default is 1. |
| <i>command</i> | Specifies the command to watch and refresh. |

CHAPTER 3. ACTIVEMQ CONSOLE COMMANDS

The `activemq` commands allow you to view and manage the brokers and messages.

Type `activemq`: then press **Tab** at the prompt to view the available commands.

NAME

`activemq:browse`, `browse` — displays messages on a specified destination

SYNOPSIS

```
activemq:browse { --amqurl brokerURL } [ --msgsel { msgsel ... } ] [ --factory className ] [ --passwordFactory className ] [ --user username ] [ --password password ] [ --view { attr ... } ] [ [ -Vheader ] | [ -Vcustom ] | [ -Vbody ] ] [ --version ] [ [ --help ] | [ -h ] | [ -? ] ] destName
```

ARGUMENTS

Table 3.1, “`activemq:browse` Arguments” describes the command's arguments.

Table 3.1. `activemq:browse` Arguments

| Argument | Interpretation |
|--|--|
| <code>--amqurl <i>brokerURL</i></code> | Specifies the URL of the broker to which you are connecting. |
| <code>--msgsel <i>msgsel1, msgsel2, ...</i></code> | Displays messages matched by the message selector. |
| <code>--factory <i>className</i></code> | Load <code>className</code> as the <code>javax.jms.ConnectionFactory</code> to use for creating connections. |
| <code>--passwordFactory <i>className</i></code> | Load <code>className</code> as the <code>org.apache.activemq.console.command.PasswordFactory</code> for retrieving the password from a keystore. |
| <code>--user <i>username</i></code> | Username to use for JMS connections. |
| <code>--password <i>password</i></code> | Password to use for JMS connections. |
| <code>-Vheader</code> | Shows all the standard JMS message headers. |
| <code>-Vcustom</code> | Shows all the custom fields added to each JMS message. |
| <code>-Vbody</code> | Shows the body of the message. |
| <code>--view <i>attr1, attr1, ...</i></code> | Selects the specific attribute of the message to view. |
| <code>--version</code> | Displays the version information. |

| Argument | Interpretation |
|-----------------------------|--|
| <code>-h, -?, --help</code> | Displays the online help for this command. |

MESSAGE FILTERS

Message filters specified using the `--msgsel` option take the form *header=value*. [Table 3.2](#), “[Message Headers for Filtering](#)” lists the headers you can use to filter messages.

Table 3.2. Message Headers for Filtering

| Name | Type |
|-------------------------|---------------------------------------|
| JMSCorrelationID | String |
| JMSDeliveryMode | 1-Non-Persistent, 2-Persistent |
| JMSDestination | javax.jms.Destination |
| JMSExpiration | long |
| JMSMessageID | String |
| JMSPriority | int |
| JMSRedelivered | boolean |
| JMSReplyTo | javax.jms.Destination |
| JMSTimestamp | long |
| JMSType | String |

EXAMPLES

The following command prints the JMS message header, custom message header, and message body of all the messages in the queue **TEST.FOO** on a broker:

```
JBossA-MQ:karaf@root>activemq:browse --amqurl tcp://localhost:61616
TEST.FOO
```

The following command displays the attributes from the body of the messages in the **TEST.FOO** queue:

```
JBossA-MQ:karaf@root>activemq:browse --amqurl tcp://localhost:61616 -Vbody
TEST.FOO
```

The following command displays any messages with an ID ending in **10**:

```
JBossA-MQ:karaf@root>activemq:browse --amqurl tcp://localhost:61616 --
msgsel JMSMessageID='*:10' TEST.FOO
```

The following command displays messages with a priority of **3**, enter:

```
JBossA-MQ:karaf@root>activemq:browse --amqurl tcp://localhost:61616 --
msgsel JMSPriority=3 TEST.FOO
```

The message selectors from the preceding two examples can be combined as follows:

```
JBossA-MQ:karaf@root>activemq:browse --amqurl tcp://localhost:61616 --
msgsel JMSPriority=3 TEST.FOO
```

NAME

activemq:bstat, bstat — summarizes the statistics for a broker

SYNOPSIS

```
activemq:bstat [ --jmxurl JMXUrl ] [ --pid PID ] [ -jmxuser userName ] [ -jmxpassword password ] [ -
jmxlocal ] [ --version ] [ [ --help ] | [ -h ] | [ -? ] ] { brokerName }
```

ARGUMENTS

Table 3.3, “[activemq:bstat Arguments](#)” describes the command's arguments.

Table 3.3. activemq:bstat Arguments

| Argument | Description |
|---|--|
| <code>--jmxurl <i>URL</i></code> | Sets the JMX URL used to locate brokers. |
| <code>--pid <i>PID</i></code> | Set the pid to connect to (only on Sun JVM). |
| <code>-jmxuser <i>user</i></code> | Sets the JMX user, used for authentication. |
| <code>-jmxpassword <i>password</i></code> | Sets the JMX password, used for authentication. |
| <code>--jmxlocal</code> | Use the local JMX server instead of a remote server. |
| <code>--version</code> | Displays the version information. |
| <code>-h, -?, --help</code> | Displays the online help for this command. |
| <i>brokerName</i> | The name of the broker |

NAME

activemq:list — lists all available brokers in the specified JMX context

SYNOPSIS

```
activemq:list [ --jmxurl JMXUrl ] [ --pid PID ] [ -jmxuser userName ] [ -jmxpassword password ] [ -jmxlocal ] [ --version ] [ --help ] [ -h ] [ -? ]
```

ARGUMENTS

Table 3.4, “[activemq:list Arguments](#)” describes the command's arguments.

Table 3.4. `activemq:list` Arguments

| Argument | Interpretation |
|--|--|
| <code>--jmxurl <i>URL</i></code> | Sets the JMX URL to connect to |
| <code>--pid <i>PID</i></code> | Set the pid to connect to (only on Sun JVM). |
| <code>--jmxuser <i>user</i></code> | Sets the JMX user, used for authentication |
| <code>--jmxpassword <i>password</i></code> | Sets the JMX password, used for authentication |
| <code>--jmxlocal</code> | Specifies to use the local JMX server instead of a remote server |
| <code>--version</code> | Displays the version information |
| <code>-h, -?, --help</code> | Displays the online help for this command |

NAME

`activemq:purge`, `purge` — purges messages from a destination

SYNOPSIS

```
activemq:purge [ --msgsel { msgsel ... } ] [ --pid PID ] [ --jmxurl JMXUrl ] [ -jmxuser userName ] [ -jmxpassword password ] [ -jmxlocal ] [ --version ] [ --help ] [ -h ] [ -? ] { destName }
```

ARGUMENTS

Table 3.5, “[activemq:purge Arguments](#)” describes the command's arguments.

Table 3.5. `activemq:purge` Arguments

| Option | Interpretation |
|--|---|
| <code>--msgsel <i>msgsel1, msgsel2, ...</i></code> | Purges messages matched by the message selector. See the section called “Message filters” . |
| <code>--jmxurl <i>URL</i></code> | Sets the JMX URL used to locate the broker. |
| <code>--pid <i>PID</i></code> | Set the pid to connect to (only on Sun JVM). |
| <code>--jmxuser <i>user</i></code> | Sets the JMX user, used for authentication. |

| Option | Interpretation |
|--|--|
| <code>--jmxpassword <i>password</i></code> | Sets the JMX password, used for authentication. |
| <code>--jmxlocal</code> | Specifies to use the local JMX server instead of a remote server |
| <code>--version</code> | Displays the version information |
| <code>-h, -?, --help</code> | Displays the online help for this command |
| <i>destName</i> | The specified message destination(s) |

EXAMPLES

The following command purges all the messages in the queue **TEST.FOO** on a broker:

```
JBossA-MQ:karaf@root>activemq:purge TEST.FOO
```

The following command purges any messages with an ID ending in **10**:

```
JBossA-MQ:karaf@root>activemq:purge --msgsel JMSSequenceID='*:10' TEST.FOO
```

The following command purges messages with a priority of **3**, enter:

```
JBossA-MQ:karaf@root>activemq:purge --msgsel JMSPriority=3 TEST.FOO
```

The message selectors from the preceding two examples can be combined as follows:

```
JBossA-MQ:karaf@root>activemq:purge --msgsel
JMSSequenceID='*:10',JMSPriority=3 TEST.FOO
```

NAME

`activemq:query`, `query` — queries the for broker information on specific objects

SYNOPSIS

```
activemq:query [-QMBeanType=name] [-xQMBeanType=name] [--objname query] [--xobjname
query] [--view { attr ...}] [--jmxurl JMXUrl] [--pid PID] [--jmxuser userName] [--jmxpassword password]
[--jmxlocal] [--version] [--help] | [-h] | [-? ]
```

ARGUMENTS

[Table 3.6, “`activemq:query` Arguments”](#) describes the command's arguments.

Table 3.6. `activemq:query` Arguments

| Argument | Interpretation |
|----------|----------------|
|----------|----------------|

| Argument | Interpretation |
|--------------------------------------|---|
| -Q <i>type=name</i> | Adds to the search list the specific object type matched by the defined object identifier. |
| -xQ <i>type=name</i> | Removes from the search list the specific object type matched by the object identifier. |
| --objname <i>query</i> | Adds to the search list objects matched by the query similar. |
| --xobjname <i>query</i> | Removes from the search list objects matched by the query. |
| --view <i>attr1,attr2,...</i> | Selects the specific attribute of the object to view. By default, all attributes are displayed. |
| --jmxurl <i>URL</i> | Sets the JMX URL to connect to. |
| --pid <i>PID</i> | Set the pid to connect to (only on Sun JVM). |
| --jmxuser <i>user</i> | Sets the JMX user, used for authentication |
| --jmxpassword <i>password</i> | Sets the JMX password, used for authentication |
| --jmxlocal | Specifies to use the local JMX server instead of a remote server |
| --version | Displays the version information |
| -h, -?, --help | Displays the online help for this command |

EXAMPLES

The following command displays all attributes and object name information for all registered MBeans in the default JMX context:

```
JBossA-MQ:karaf@root>activemq:query
```

The following command displays all attributes and object name information of the destination topic **TEST.FOO**:

```
JBossA-MQ:karaf@root>activemq:query -QTopic=TEST.FOO
```

The following command displays all the brokers in a context whose name ends in **host**:

```
JBossA-MQ:karaf@root>activemq:query -QBroker=*host
```

The following command displays all attributes and object name information for all registered queues:

```
JBossA-MQ:karaf@root>activemq:query --objname=*Queue*
```

```
JBossA-MQ:karaf@root>activemq:query -QQueue=*^
```

The following command displays all attributes and object name information for all topics ending with **.FOO** except those that also begin with **ActiveMQ.Advisory.**:

```
JBossA-MQ:karaf@root>activemq:query -QTopic=*.FOO -  
xQTopic=ActiveMQ.Advisory.*
```

CHAPTER 4. ADMIN CONSOLE COMMANDS

The **admin** commands allow you to create, manage and destroy container instances.

Type **admin:** then press **Tab** at the **FuseMQkaraf:karaf@root>** prompt to view the available commands.

NAME

admin:change-opts, **change-opts** — changes the Java options of an existing container

SYNOPSIS

```
admin:change-opts [ --help ] { name } { opts }
```

ARGUMENTS

Table 4.1, “**admin:change-opts Arguments**” describes the command's arguments.

Table 4.1. admin:change-opts Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |
| <i>name</i> | The name of the container for which you want to change the Java options |
| <i>opts</i> | The Java options to change |

NAME

admin:change-rmi-registry-port, **change-rmi-registry-port** — changes the RMI registry port used by the management layer of a container

SYNOPSIS

```
admin:change-rmi-registry-port [ --help ] { name } { port }
```

ARGUMENTS

Table 4.2, “**admin:change-rmi-registry-port Arguments**” describes the command's arguments.

Table 4.2. admin:change-rmi-registry-port Arguments

| Argument | Interpretation |
|---------------|--|
| --help | Displays the online help for this command |
| <i>name</i> | The name of the container instance for which you want to change the port |
| <i>port</i> | The new RMI registry port |

NAME

admin:change-rmi-server-port, change-rmi-server-port — changes the RMI server port used by the management layer of a container

SYNOPSIS

```
admin:change-rmi-server-port [ --help ] { name } { port }
```

ARGUMENTS

Table 4.3, “[admin:change-rmi-server-port Arguments](#)” describes the command's arguments.

Table 4.3. admin:change-rmi-server-port Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>name</i> | The name of the container instance for which you want to change the port |
| <i>port</i> | The new RMI server port |

NAME

admin:change-ssh-port, changessh-port — changes the secure shell port of a container

SYNOPSIS

```
admin:change-ssh-port [ --help ] { name } { port }
```

ARGUMENTS

Table 4.4, “[admin:change-ssh-port Arguments](#)” describes the command's arguments.

Table 4.4. admin:change-ssh-port Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>name</i> | The name of the container instance for which you want to change the port |
| <i>port</i> | The new secure shell port |

NAME

admin:clone, clone — clones an existing container instance

SYNOPSIS

```
admin:clone [ --help ] [[ -l ] | [ --location ] fileName] [[ -o ] | [ --java-opts ] JVMOpts] [[ -s ] | [ --ssh-port ] port] [[ -rs ] | [ --rmi-server-port ] port] [[ -r ] | [ -rr ] | [ --rmi-port ] | [ --rmi-registry-port ] port] [[ -v ] | [ --verbose ] ] { name } { cloneName }
```

ARGUMENTS

Table 4.5, “[admin:clone Arguments](#)” describes the command's arguments.

Table 4.5. admin:clone Arguments

| Argument | Interpretation |
|---|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-l</code> , <code>--location</code> | Location of the cloned container instance in the file system. |
| <code>-o</code> , <code>--java-opts</code> | JVM options to use when launching the cloned instance. |
| <code>-s</code> , <code>--ssh-port</code> | Port number for remote secure shell connection. |
| <code>-rs</code> , <code>--rmi-server-port</code> | Port number for RMI server connection. |
| <code>-r</code> , <code>-rr</code> , <code>--rmi-port</code> , <code>--rmi-registry-port</code> | Port number for RMI registry connection. |
| <code>-v</code> , <code>--verbose</code> | Display actions performed by the command (disabled by default). |
| <i>name</i> | Name of the original container instance. |
| <i>cloneName</i> | Name of the cloned container instance. |

NAME

admin:connect, connect — connects to an existing container

SYNOPSIS

```
admin:connect [ --help ] [[ -u ] | [ --username ] userName] [[ -p ] | [ --password ] password] { container } [ command ]
```

ARGUMENTS

Table 4.6, “[admin:connect Arguments](#)” describes the command's arguments.

Table 4.6. admin:connect Arguments

| Argument | Interpretation |
|-----------------------|---|
| --help | Displays the online help for this command |
| -u, --username | The remote user name; the default is karaf |
| -p, --password | The remote user password; the default is karaf |
| container | The container to connect to |
| command | Command to execute on connecting |

NAME

admin:create, create — creates a new child container

SYNOPSIS

```
admin:create [ --help ] [ -l ] [ --location ] filePath [ -furl ] [ --featureURL ] URL... [ -f ] [ --feature ] feature... [ -s ] [ --ssh-port ] SSHPort [ -rs ] [ --rmi-server-port ] RMIServPort [ -r ] [ -rr ] [ --rmi-registry-port ] [ --rmi-port ] RMIRegPort [ -o ] [ --java-opts ] javaOpts { name }
```

ARGUMENTS

Table 4.7, “[admin:create Arguments](#)” describes the command's arguments.

Table 4.7. admin:create Arguments

| Argument | Interpretation |
|---|--|
| --help | Displays the online help for this command |
| -l, --location | The location of the child's data folders on the file system. By default, the child's data is added to the InstallDir/instances/name directory |
| -furl, --featureURL | Registers additional feature URLs with the child. |
| -f, --feature | Specifies additional features loaded by the child. |
| -s, --ssh-port | The port number for remote secure shell connection |
| -rs, --rmi-server-port | The port number for RMI server connection |
| -r, -rr, --rmi-registry-port, --rmi-port | The port number for RMI registry connection |
| -o, --java-opts | JVM options to use when launching the child |

| Argument | Interpretation |
|-------------|-----------------------|
| <i>name</i> | The name of the child |

NAME

`admin:destroy`, `destroy` — destroys a child container

SYNOPSIS

```
admin:destroy [ --help ] { name }
```

ARGUMENTS

Table 4.8, “`admin:destroy` Arguments” describes the command's arguments.

Table 4.8. `admin:destroy` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>name</i> | The name of the container to destroy |

NAME

`admin:list` — list all of the child containers on the current host

SYNOPSIS

```
admin:list [ --help ] [[ -l ] | [ --location ] filePath] [[ -o ] | [ --java-opts ] javaOpts]
```

ARGUMENTS

Table 4.9, “`admin:list` Arguments” describes the command's arguments.

Table 4.9. `admin:list` Arguments

| Argument | Interpretation |
|--|--|
| <code>--help</code> | Displays the online help for this command |
| <code>-l</code> , <code>--location</code> | Displays the location of the container instances |
| <code>-o</code> , <code>--java-opts</code> | Displays the options used when launching the container's JVM |

NAME

admin:rename, rename — renames a child container

SYNOPSIS

admin:rename [--help] { name } { new-name }

ARGUMENTS

Table 4.10, “[admin:rename Arguments](#)” describes the command's arguments.

Table 4.10. admin:rename Arguments

| Argument | Interpretation |
|-----------------|---|
| --help | Displays the online help for this command |
| <i>name</i> | Current name of the container |
| <i>new-name</i> | The new name for the container |

NAME

admin:start — starts a child container

SYNOPSIS

admin:start [--help] [[-o] | [--java-opts] *javaOpts*] { name }

ARGUMENTS

Table 4.11, “[admin:start Arguments](#)” describes the command's arguments.

Table 4.11. admin:start Arguments

| Argument | Interpretation |
|------------------------|--|
| --help | Displays the online help for this command |
| -o, --java-opts | The Java options used when launching the container |
| <i>name</i> | The name of the container to start |

NAME

admin:stop — stops a child container

SYNOPSIS

admin:stop [--help] { name }

ARGUMENTS

Table 4.12, “`admin:stop` Arguments” describes the command's arguments.

Table 4.12. `admin:stop` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>name</i> | The name of the container to start |

CHAPTER 5. CAMEL CONSOLE COMMANDS

The `camel` commands are used for managing Camel contexts and routes.

NAME

`camel:context-info` — display detailed information about the specified Camel context

SYNOPSIS

```
camel:context-info [ --help ] { contextName }
```

ARGUMENTS

This command takes the following arguments.

Table 5.1. camel:context-info Arguments

| Argument | Interpretation |
|--------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>contextName</code> | The name of the Camel context. |

NAME

`camel:context-list` — list all active Camel contexts

SYNOPSIS

```
camel:context-list [ --help ]
```

ARGUMENTS

This command takes the following arguments.

Table 5.2. camel:context-list Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`camel:context-start` — start up the specified Camel context

SYNOPSIS

```
camel:context-start [ --help ] { contextName }
```

ARGUMENTS

This command takes the following arguments.

Table 5.3. camel:context -start Arguments

| Argument | Interpretation |
|--------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>contextName</code> | The name of the Camel context. |

NAME

camel:context-stop — stop the specified Camel context

SYNOPSIS

```
camel:context-stop [ --help ] { contextName }
```

ARGUMENTS

This command takes the following arguments.

Table 5.4. camel:context -stop Arguments

| Argument | Interpretation |
|--------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>contextName</code> | The name of the Camel context. |

NAME

camel:endpoint-list — lists all deployed Camel endpoints

SYNOPSIS

```
camel:endpoint-list [ --help ]
```

ARGUMENTS

This command takes the following arguments.

Table 5.5. camel:endpoint -list Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

camel:route-info — display detailed information about the specified Camel route

SYNOPSIS

```
camel:route-info [ --help ] { route } [ contextName ]
```

ARGUMENTS

This command takes the following arguments.

Table 5.6. camel:route-info Arguments

| Argument | Interpretation |
|--------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>route</code> | The Camel route ID. |
| <code>contextName</code> | <i>(Optional)</i> The Camel context name. |

NAME

camel:route-list — list the Camel routes

SYNOPSIS

```
camel:route-list [ --help ] [ contextName ]
```

DESCRIPTION

You can optionally restrict the listing to show only the routes belonging to the specified Camel context.

ARGUMENTS

This command takes the following arguments.

Table 5.7. camel:route-list Arguments

| Argument | Interpretation |
|--------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>contextName</code> | <i>(Optional)</i> The Camel context name. |

NAME

camel:route-resume — resume the specified Camel route (which was previously suspended)

SYNOPSIS

```
camel:route-resume [ --help ] { route } [ contextName ]
```

ARGUMENTS

This command takes the following arguments.

Table 5.8. camel:route-resume Arguments

| Argument | Interpretation |
|--------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>route</code> | The Camel route ID. |
| <code>contextName</code> | <i>(Optional)</i> The Camel context name. |

NAME

`camel:route-show` — display the Camel route definition in XML format

SYNOPSIS

```
camel:route-show [ --help ] { route } [ contextName ]
```

ARGUMENTS

This command takes the following arguments.

Table 5.9. camel:route-show Arguments

| Argument | Interpretation |
|--------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>route</code> | The Camel route ID. |
| <code>contextName</code> | <i>(Optional)</i> The Camel context name. |

NAME

`camel:route-start` — start the specified Camel route

SYNOPSIS

```
camel:route-start [ --help ] { route } [ contextName ]
```

ARGUMENTS

This command takes the following arguments.

Table 5.10. camel:route-start Arguments

| Argument | Interpretation |
|----------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-n,--interval</code> | |

| Argument | Interpretation |
|--------------|---------------------|
| <i>route</i> | The Camel route ID. |

NAME

camel:route-stop — stop the specified Camel route

SYNOPSIS

camel:route-stop [--help] { *route* } [*contextName*]

ARGUMENTS

This command takes the following arguments.

Table 5.11. camel:route-stop Arguments

| Argument | Interpretation |
|--------------------|---|
| --help | Displays the online help for this command |
| <i>route</i> | The Camel route ID. |
| <i>contextName</i> | (Optional) The Camel context name. |

NAME

camel:route-suspend — suspend the specified Camel route

SYNOPSIS

camel:route-suspend [--help] { *route* } [*contextName*]

ARGUMENTS

This command takes the following arguments.

Table 5.12. camel:route-suspend Arguments

| Argument | Interpretation |
|--------------------|---|
| --help | Displays the online help for this command |
| <i>route</i> | The Camel route ID. |
| <i>contextName</i> | (Optional) The Camel context name. |

CHAPTER 6. CONFIG CONSOLE COMMANDS

The config commands are used for managing container configuration. The configuration data is edited in two stages. First the changes are queued until they are dynamically loaded into the container by executing the **config:update** command. A copy of the configuration is persisted to the file system in the container's **etc** folder.

When editing a configuration the commands are used as follows:

1. Start the editing session for the specified configuration.

config:edit

2. Edits, or creates, a configuration.

- **config:proplist**

Lists the properties in the configuration.

- **config:propappend**

Append a new property to the configuration.

- **config:propset**

Sets the value for a configuration property.

- **config:propdel**

Deletes a property from the configuration.

3. **config:update**

Saves the changes and updates the containers using the configuration.

You can abandon an editing session using **config:cancel**.

Type **config:** then press **Tab** at the prompt to view the available commands.

NAME

config:cancel — cancels the changes to the configuration being edited

SYNOPSIS

config:cancel [--help]

DETAILS

When editing a configuration, the changes are buffered until the editing session is closed. The **config:cancel** command clears the buffer without saving the changes and closes the editing session. You can see a list of the buffered changes using the **jaas:pending** command.

ARGUMENTS

[Table 6.1, “config:cancel Arguments”](#) describes the command's arguments.

Table 6.1. config:cancel Arguments

| Option | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |

NAME

`config:delete`, `delete` — deletes a configuration from the container

SYNOPSIS

```
config:delete [ --help ] [[ -f ] | [ --use-file ]] [ --no-delete-cfg-file ] { pid }
```

DETAILS

When you delete a configuration, the change is made directly on the running container. Any properties set in the configuration are reverted to their default values and the behavior of the container will be immediate.

If you use the **--no-delete-cfg-file** argument, the original settings can be reloaded from the configuration file.

ARGUMENTS

Table 6.2, “[config:delete Arguments](#)” describes the command’s arguments.

Table 6.2. config:delete Arguments

| Option | Interpretation |
|-----------------------------|---|
| --help | Displays the online help for this command. |
| -f, --use-file | Use a filename instead of the PID to locate the configuration. |
| --no-delete-cfg-file | Does not delete the associated configuration file from the container’s etc folder. |
| <i>pid</i> | Specifies the configuration’s persistent identifier. |

NAME

`config:edit`, `edit` — begins an editing session for a configuration. If the configuration does not exist a new configuration is created.

SYNOPSIS

```
config:edit [ --help ] [ --force ] [[ -f ] | [ --use-file ]] { pid }
```

DETAILS

The **config:edit** command is the first step in editing a container configuration. It opens the configuration so that calls to the **config:*** editing commands will update the selected configuration.

The edits made by the **config:*** editing commands are placed in a buffer associated with the selected

configuration and not propagated to the container, or the file system, until the editing session is ended by the **config:update** command.

If you use the **config:edit** command before saving the changes to a configuration that is open for editing, the changes to the previously open configuration are abandoned. The pending edits cleared without being saved.

ARGUMENTS

Table 6.3, “**config:edit Arguments**” describes the command's arguments.

Table 6.3. config:edit Arguments

| Option | Interpretation |
|-----------------------|--|
| --help | Displays the online help for this command |
| --force | Forces the editing of this configuration, even if another configuration was being edited |
| -f, --use-file | Use a filename instead of the PID to locate the configuration |
| <i>pid</i> | The persistent identifier of the configuration |

NAME

config:list — lists the existing configurations for the container

SYNOPSIS

```
config:list [ --help ] [ query ]
```

ARGUMENTS

Table 6.4, “**config:list Arguments**” describes the command's arguments.

Table 6.4. config:list Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |
| <i>query</i> | An LDAP query |

NAME

config:propappend, **propappend** — appends the given value to an existing property or creates the property with the specified name and value

SYNOPSIS

```
config:propappend [ --help ] [[ -b ] | [ --bypass-storage ] ] [[ -p PID ] | [ --pid PID ] ] { name } { value }
```

DETAILS

When you append a value to a property using the **config:propappend** command, the change is stored in the buffer and not propagated to the container until the editing session is closed.

If you use the **-p** argument to specify a PID, however, the change is made immediately.

ARGUMENTS

Table 6.5, “**config:propappend Arguments**” describes the command's arguments.

Table 6.5. config:propappend Arguments

| Argument | Interpretation |
|-----------------------------|--|
| --help | Displays the online help for this command. |
| -b, --bypass-storage | Do not write the change to the local file. |
| -p, --pid | Specifies the PID of the configuration in which to make the change. The default is to change the configuration currently open for editing. |
| <i>name</i> | Specifies the name of the property to change. |
| <i>value</i> | Specifies the value to append to the property. |

NAME

config:propdel, propdel — deletes a property from the configuration being edited

SYNOPSIS

```
config:propdel [ --help ] [ [-b] | [ --bypass-storage ] ] [ [-p PID] | [ --pid PID ] ] { name }
```

DETAILS

When you delete a property using the **config:propdel** command, the change is stored in the buffer and not propagated to the container until the editing session is closed.

If you use the **-p** argument to specify a PID, however, the change is made immediately.

ARGUMENTS

Table 6.6, “**config:propdel Arguments**” describes the command's arguments.

Table 6.6. config:propdel Arguments

| Argument | Interpretation |
|-----------------------------|--|
| --help | Displays the online help for this command. |
| -b, --bypass-storage | Does not write the change to the local file. |
| -p, --pid | Specifies the PID of the configuration in which to make the change. The default is to change the configuration currently open for editing. |

| Argument | Interpretation |
|-------------|---|
| <i>name</i> | Specifies the name of the property to delete. |

NAME

`config:proplist`, `proplist` — lists the properties in the configuration being edited

SYNOPSIS

`config:proplist` [`--help`] [[`-p` *PID*] | [`--pid` *PID*]]

ARGUMENTS

Table 6.7, “`config:proplist` Arguments” describes the command's arguments.

Table 6.7. `config:proplist` Arguments

| Argument | Interpretation |
|--------------------------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>-p</code> , <code>--pid</code> | The PID of the configuration in which to make the change |

NAME

`config:propset`, `propset` — sets a property in the configuration being edited

SYNOPSIS

`config:propset` [`--help`] [[`-b`] | [`--bypass-storage`]] [[`-p` *PID*] | [`--pid` *PID*]] { *name* } { *value* }

DETAILS

When you set a property using the `config:propset` command, the change is stored in the buffer and not propagated to the container until the editing session is closed.

If you use the `-p` argument to specify a PID, however, the change is made immediately.

ARGUMENTS

Table 6.8, “`config:propset` Arguments” describes the command's arguments.

Table 6.8. `config:propset` Arguments

| Argument | Interpretation |
|---|--|
| <code>--help</code> | Displays the online help for this command. |
| <code>-b</code> , <code>--bypass-storage</code> | Does not write the change to the local file. |

| Argument | Interpretation |
|------------------|--|
| -p, --pid | Specifies the PID of the configuration in which to make the change. The default is to change the configuration currently open for editing. |
| <i>name</i> | Specifies the name of the property to set. |
| <i>value</i> | Specifies the value to set for the property. |

NAME

`config:update` — saves the changes made to the configuration being edited and propagates them to the container

SYNOPSIS

```
config:propset [ --help ] [[ -b ] | [ --bypass-storage ]]
```

ARGUMENTS

[Table 6.9, “`config:update` Arguments”](#) describes the command's arguments.

Table 6.9. `config:update` Arguments

| Argument | Interpretation |
|-----------------------------|--|
| --help | Displays the online help for this command |
| -b, --bypass-storage | Do not update the copy of the configuration on the file system |

CHAPTER 7. CXF CONSOLE COMMANDS

The **cxf** commands are used for managing Apache CXF buses and endpoints. If these commands are not already loaded into the console, you can load them using the following console command:

```
JBossFuse:karaf@root> features:install cxf- osgi
```

NAME

cxf:list-busses — lists all Apache CXF buses

SYNOPSIS

```
cxf:list-busses [ --help ]
```

ARGUMENTS

This command takes the following arguments.

Table 7.1. cxf:list-busses Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |

NAME

cxf:list-endpoints — list all active endpoints belonging to the specified Apache CXF bus

SYNOPSIS

```
cxf:list-endpoints [ --help ] { busID }
```

ARGUMENTS

This command takes the following arguments.

Table 7.2. cxf:list-endpoints Arguments

| Argument | Interpretation |
|---------------------|---|
| --help | Displays the online help for this command |
| <i>busID</i> | The Apache CXF bus ID. |

NAME

cxf:start-endpoint — start the specified Apache CXF endpoint belonging to the specified bus

SYNOPSIS

```
cxf:start-endpoint [ --help ] { busID } { endpointName }
```

ARGUMENTS

This command takes the following arguments.

Table 7.3. cxf:start-endpoint Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>busID</i> | The Apache CXF bus ID. |
| <i>endpointName</i> | The name of the Apache CXF endpoint. |

NAME

`cxf:stop-endpoint` — stop the specified Apache CXF endpoint belonging to the specified bus

SYNOPSIS

```
cxf:stop-endpoint [ --help ] { busID } { endpointName }
```

ARGUMENTS

This command takes the following arguments.

Table 7.4. cxf:stop-endpoint Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>busID</i> | The Apache CXF bus ID. |
| <i>endpointName</i> | The name of the Apache CXF endpoint. |

CHAPTER 8. DEV CONSOLE COMMANDS

The dev commands are a collection of utilities that are useful testing bundles in the container.

Type **dev**: then press **Tab** at the prompt to view the available commands.

NAME

dev:classloaders, classloaders — displays a list of leaking bundle classloaders

SYNOPSIS

dev: classloaders [--help]

ARGUMENTS

Table 8.1, “[dev: classloader Arguments](#)” describes the commands arguments.

Table 8.1. dev: classloader Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |

NAME

dev:create-dump, create-dump — creates a ZIP file containing diagnostic information

SYNOPSIS

dev: create-dump [--help] [[-d *dumpFolder*] | [--directory *dumpFolder*]] { *dumpName* }

ARGUMENTS

Table 8.2, “[dev: create-dump Arguments](#)” describes the commands arguments.

Table 8.2. dev: create-dump Arguments

| Argument | Interpretation |
|------------------------|---|
| --help | Displays the online help for this command |
| -d, --directory | Specifies the folder into which to store the dump |
| <i>dumpName</i> | Specifies the name for the dump file |

NAME

dev:dynamic-import, dynamic-import — enables/disables dynamic imports for a bundle

SYNOPSIS

```
dev:dynamic-import [ --help ] { bundleID }
```

ARGUMENTS

Table 8.3, “[dev:dynamic-import Arguments](#)” describes the commands arguments.

Table 8.3. `dev:dynamic-import` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>bundleID</i> | A bundle ID. |

NAME

`dev:framework`, `framework` — enables/disables debugging for an OSGi framework

SYNOPSIS

```
dev:framework [ --help ] { [ -debug ] | [ --enable-debug ] [ [ -nodebug ] | [ --disable-debug ] ] } { framework }
```

ARGUMENTS

Table 8.4, “[dev:framework Arguments](#)” describes the commands arguments.

Table 8.4. `dev:framework` Arguments

| Argument | Interpretation |
|--|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-nodebug</code> , <code>--disable-debug</code> | Disable debugging for the OSGi framework. |
| <code>-debug</code> , <code>--enable-debug</code> | Enable debugging for the OSGi framework. |
| <i>framework</i> | Name of the OSGi framework |

NAME

`dev:print-stack-traces`, `print-stack-traces` — enables/disables printing of full stack traces in the console when the execution of a command throws an exception

SYNOPSIS

```
dev:print-stack-traces [ --help ] [ false ]
```

ARGUMENTS

Table 8.5, “[dev:print-stack-traces Arguments](#)” describes the commands arguments.

Table 8.5. `dev:print-stack-traces` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>false</code> | Disables stack traces |

NAME

`dev:restart` — restart the container

SYNOPSIS

`dev:restart` [`--help`] [`-c`] [`--clean`]

ARGUMENTS

Table 8.6, “[dev:restart Arguments](#)” describes the commands arguments.

Table 8.6. `dev:restart` Arguments

| Argument | Interpretation |
|--|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-c</code> , <code>--clean</code> | Force a clean (cold) restart by deleting the container's data directory. |

NAME

`dev:show-tree`, `show-tree` — shows the tree of bundles based on the wiring information

SYNOPSIS

`dev:show-tree` [`--help`] { *bundleID* }

ARGUMENTS

Table 8.7, “[dev:show-tree Arguments](#)” describes the commands arguments.

Table 8.7. `dev:show-tree` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>bundleID</i> | A bundle ID. |

NAME

dev:threads, threads — shows the threads in the JVM

SYNOPSIS

```
dev:threads [ --help ] [ -f ] [ --flat ]
```

ARGUMENTS

Table 8.8, “[dev:threads Arguments](#)” describes the commands arguments.

Table 8.8. dev:threads Arguments

| Argument | Interpretation |
|-------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-f, --flat</code> | Do not show the threads in a tree |

NAME

dev:wait-for-service, wait-for-service — wait for the specified OSGi service

SYNOPSIS

```
dev:wait-for-service [ --help ] [ -t ] [ --timeout ] timeout [ -e ] [ --exception ] {
serviceClassOrFilter }
```

DESCRIPTION

This command is useful when you are developing a console script and you want to wait for a specific OSGi service to start up, before proceeding with the execution of the script.

For example, the various command sets installed in the console (**shell:***, **admin:***, **features:***, and so on) are represented by OSGi services of type, **org.apache.karaf.shell.console.SubShell**.

If you want to check that a sub-shell service is available, you could enter the following console command:

```
karaf@root> dev:wait-for-service -t 1000
org.apache.karaf.shell.console.SubShell
true
```

This form of the command is not very useful in this case, because there are many different instances of the **SubShell** service installed in the container. To be more specific, you can define an LDAP filter, which specifies one or more service property values. For example, you can wait specifically for the **osgi** sub-shell service by entering a command like the following:

```
karaf@root> dev:wait-for-service -t 1000 &
(objectClass=org.apache.karaf.shell.console.SubShell)(name=osgi)
true
```

ARGUMENTS

Table 8.9, “[dev:wait-for-service Arguments](#)” describes the commands arguments.

Table 8.9. dev:wait-for-service Arguments

| Argument | Interpretation |
|------------------------------------|---|
| --help | Displays the online help for this command |
| -t, --timeout | Timeout (specified in milliseconds: negative to not wait at all, zero to wait forever). Default is forever. |
| -e, --exception | Throw an exception if the wait command times out (the service is not found). Default is false. |
| <i>serviceClassOrFilter</i> | Specifies the OSGi service either by the service's class name or by an LDAP-style filter (which is applied to the OSGi service's properties). |

NAME

`dev:watch`, `watch` — watches and automatically updates bundles

SYNOPSIS

`dev:watch` [`--help`] [[`--start`] | [`--stop`]] [`-i interval`] [`--list`] [`--remove`] { *bundles ...* }

ARGUMENTS

Table 8.10, “`dev:watch` Arguments” describes the commands arguments.

Table 8.10. `dev:watch` Arguments

| Argument | Interpretation |
|--------------------------|---|
| --help | Displays the online help for this command |
| --stop | Stop watching the specified bundles |
| --start | Start watching the specified bundles |
| -i | Specifies the interval, in milliseconds, to check the bundles. |
| --list | List the bundles being watched. |
| --remove | Remove the specified bundles from the watch list. |
| <i>bundles...</i> | Specifies a whitespace delimited list of bundle URLs or bundle IDs. |



IMPORTANT

Only Maven URLs and Maven snapshots will be updated automatically. So, if you run

```
JBossA-MQ:karaf@root> dev:watch *
```

You are monitoring all bundles that have a location matching `mvn:*` that have `-SNAPSHOT` in their URL.

CHAPTER 9. FUSE APPLICATION BUNDLE(FAB) CONSOLE COMMANDS

The **fab** commands are used for managing Fuse Application Bundle(FAB)s.

There is no dedicated install command for FABs. To install a FAB, use the **osgi:install** command combined with the **fab:** URL prefix. For example, to install the FAB **mvn:org.fusesource.example/camel-example/1.0** use the following console command:

```
JBossA-MQ:karaf@root> osgi:install fab:mvn:org.fusesource.example/camel-example/1.0
```

NAME

fab:headers — displays the headers of a FAB

SYNOPSIS

```
fab:headers [ --help ] [ --indent style ] { URL }
```

DESCRIPTION

Displays the header entries from the **META-INF/MANIFEST.MF** file embedded in the FAB JAR file. This is *not* the same thing as the bundle headers returned by the **osgi:headers** command, because the **osgi:headers** command shows the effective headers *after* the FAB is converted into an OSGi bundle. For example, a typical FAB might have headers like the following:

```
JBossA-MQ:karaf@root> fab:headers
mvn:org.fusesource.examples/cbr/7.0.0.fuse-beta-042

Manifest-Version = 1.0 Archiver-Version = Plexus Archiver Built-By =
username Build-Jdk = 1.6.0_29 Created-By = Apache Maven
```

After the FAB is deployed, the corresponding OSGi bundle could have headers like the following (given that the bundle ID of the deployed FAB is 228):

```
JBossA-MQ:karaf@root> osgi:headers 228

org.fusesource.examples.cbr (228) -----
Manifest-Version = 1 Bnd-LastModified = 1334306872960 Archiver-Version =
Plexus Archiver Tool = Bnd-1.43.0 Originally-Created-By = Apache Maven
FAB-URL = mvn:org.fusesource.examples/cbr/7.0.0.fuse-beta-042 Generated-
By-FAB-From = mvn:org.fusesource.examples/cbr/7.0.0.fuse-beta-042 Built-By
= username FAB-Id = org.fusesource.examples:cbr:7.0.0.fuse-beta-042:jar
Build-Jdk = 1.6.0_29 Created-By = 1.6.0_29 (Apple Inc.) Bundle-Name =
org.fusesource.examples.cbr Bundle-SymbolicName =
org.fusesource.examples.cbr Bundle-Version = 7.0.0.fuse-beta-042 Bundle-
ManifestVersion = 2 Export-Package = OSGI-INF.blueprint, OSGI-INF
```

ARGUMENTS

[Table 9.1, “fab:headers Arguments”](#) describes the commands arguments.

Table 9.1. fab:headers Arguments

| Argument | Interpretation |
|-----------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>--indent</code> | Specify the indent style. Valid values are 1 , 2 , or 3 . The default is -1 . |
| <i>URL</i> | The URL of the FAB |

NAME

`fab:info` — display information about a FAB, including the list of shared and unshared dependencies, and the list of features installed as part of the FAB resolution process

SYNOPSIS

```
fab:info [ --help ] { bundleID }
```

ARGUMENTS

Table 9.2, “`fab:info` Arguments” describes the commands arguments.

Table 9.2. `fab:info` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>bundleID</i> | The bundle ID of the FAB (for deployed FABs) or the URL location of the FAB (for FABs that are not yet deployed). |

NAME

`fab:start` — starts the specified FAB

SYNOPSIS

```
fab:start [ --help ] [ --timeout millis ] { bundleID }
```

DESCRIPTION

Depending on how a FAB is configured, it can be associated with multiple dependent bundles. When a FAB is initially installed in the container, the transitive dependencies of the FAB are determined by scanning the embedded POM file, `META-INF/maven/GroupID/ArtifactID/pom.xml`. Any transitive dependencies that are shared (for example, by being marked as provided or because the dependency is already packaged as an OSGi bundle), are deployed as separate OSGi bundles in the container.

When you start the FAB using `fab:start`, the runtime attempts to start *all* of the corresponding bundles, starting with the leaves of the dependency tree and working its way up the tree to the FAB's bundle. In particular, this implies that any OSGi services, blueprint XML files, and Spring XML files in the

dependent OSGi bundles are activated in the appropriate order.

ARGUMENTS

Table 9.3, “[fab: start Arguments](#)” describes the commands arguments.

Table 9.3. fab: start Arguments

| Argument | Interpretation |
|------------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>--timeout</code> | Specifies, in milliseconds, how long to wait for the FAB bundle to start up. Default is 30000 . |
| <i>bundleID</i> | The bundle ID of the FAB. |

NAME

`fab:stop` — stops the specified FAB bundle together with its shared transitive dependencies, except for those dependencies that are being used by other bundles.

SYNOPSIS

```
fab:stop [ --help ] { bundleID }
```

ARGUMENTS

Table 9.4, “[fab: stop Arguments](#)” describes the commands arguments.

Table 9.4. fab: stop Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>bundleID</i> | The bundle ID of the FAB. |

NAME

`fab:tree`, `tree` — displays the dependency tree of a FAB

SYNOPSIS

```
fab:tree [ --help ] { bundleID }
```

ARGUMENTS

Table 9.5, “[fab: tree Arguments](#)” describes the commands arguments.

Table 9.5. fab: tree Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>bundleID</i> | Specifies the bundle ID, URL, or filename of the FAB. |

NAME

`fab:uninstall` — uninstall the specified FAB and all of its transitive dependencies, except for those dependencies that are being used by other bundles

SYNOPSIS

```
fab:uninstall [ --help ] { bundleID }
```

DESCRIPTION

Depending on how a FAB is configured, it can be associated with multiple dependent bundles. When a FAB is initially installed in the container, the transitive dependencies of the FAB are determined by scanning the embedded POM file, `META-INF/maven/GroupID/ArtifactID/pom.xml`. Any transitive dependencies that are shared (for example, by being marked as provided or because the dependency is already packaged as an OSGi bundle), are deployed as separate OSGi bundles in the container.

When you uninstall the FAB using `fab:uninstall`, the runtime attempts to uninstall all of the corresponding OSGi bundles, *except* for any bundles that are still being used by other applications in the container.

ARGUMENTS

[Table 9.6, “`fab:uninstall` Arguments”](#) describes the commands arguments.

Table 9.6. `fab:uninstall` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>bundleID</i> | The bundle ID of the FAB. |

CHAPTER 10. FABRIC CONSOLE COMMANDS

This chapter describes **fabric** console commands.

NAME

`fabric:cluster-list` — lists the members of a cluster

SYNOPSIS

`fabric:cluster-list` [`--help`] [*Path*]

DESCRIPTION

This command lists the members of the specified cluster, where the cluster can be a cluster of message brokers, a cluster of servlets, or a cluster of Web applications.

For example, to list all of the servlet services in the Fabric, enter the following console command:

```
fabric:cluster-list servlets
```

To list all of the Web application services in the Fabric, enter the following console command:

```
fabric:cluster-list webapps
```

ARGUMENTS

Table 10.1, “[fabric:cluster-list Arguments](#)” describes the command's arguments.

Table 10.1. fabric:cluster-list Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>Path</i> | Path of the fabric registry node (Zookeeper registry node) to list. Relative paths are evaluated relative to the base node, <code>/fabric/registry/clusters</code> . If not specified, all clusters are listed |

RELATED TOPICS

[fabric:mq-create](#)

NAME

`fabric:cloud-firewall-edit` — manage a cloud container's firewall

SYNOPSIS

`fabric:cloud-firewall-edit` [`--help`] [`--owner` *owner*] [`--option` *key=value*]

ARGUMENTS

Table 10.2, “[fabric:cloud-firewall-edit Arguments](#)” describes the command's arguments.

Table 10.2. `fabric:cloud-firewall-edit` Arguments

| Argument | Interpretation |
|---------------------------------|---|
| <code>--port</code> | The target IP port. To specify multiple ports, specify this flag multiple times on the command line—for example, <code>--port 1234 --port 5678</code> . |
| <code>--flush</code> | Flush all rules. |
| <code>--revoke</code> | Revoke the rule for the specified port. This blocks access to the specified IP port. |
| <code>--target-container</code> | The target container name. |
| <code>--source-container</code> | The source container, which has access granted or revoked. |
| <code>--target-node-id</code> | The target node ID. |
| <code>--source-cidr</code> | The source CIDR, which has access granted or revoked. |
| <code>--provider</code> | The cloud provider name. |
| <code>--help</code> | Displays the online help for this command. |

NAME

`fabric:cloud-service-add` — initialize a cloud provider (which can be used for provisioning containers in the cloud)

SYNOPSIS

```
fabric:cloud-service-add [ --help ] [ --provider providerName ] [ --name name ] [ --api APIName ]
[ --endpoint URL ] [ --identity accessKeyID ] [ --credential secretAccessKey ] [ --owner owner ] [ --option
key=value ] [ --async-registration ]
```

DESCRIPTION

This command runs asynchronously. That is, although the command returns immediately, it runs a thread in the background, which completes the initialization of the cloud provider. You can use `fabric:cloud-service-list` to discover when the initialization has completed.

There are two different styles of usage for this command:

- *Commercial cloud provider*—if you are using a commercial cloud provider, JClouds provides prepackaged modules that encapsulate the basic connection details for the provider. The prepackaged modules are available to install as Karaf features (named `jclouds-ProviderName`) and encapsulate such details as the endpoint URI, cloud API, and so on.

For example, to install an Amazon Web Services (AWS) EC2 cloud provider, you can perform the following steps (assuming you are working in a standalone container):

1. Install the basic set of fabric cloud commands:

```
karaf@root> features:install fabric-jclouds
```

2. Install the JClouds module specifically for AWS EC2:

```
karaf@root> features:install jclouds-aws-ec2
```

3. Add the AWS EC2 provider, specifying the login credentials for your EC2 account:

```
karaf@root> fabric:cloud-service-add --provider aws-ec2 --
identity AccessKeyID
--credential SecretAccessKey
```

4. You are now ready to start creating compute instances on the **aws-ec2** cloud service, using the **fabric:container-create-cloud** command.
- *Private cloud service*—if you are hosting your compute instances on a private cloud service, you must specify the connection details more explicitly, by supplying the **--api** and **--endpoint** options. In this case, you must also define a name for the cloud service, by supplying the **--name** option.

For example, to define a connection to a private cloud service that uses the **openstack-nova** API through the endpoint, **http://172.16.0.1:4000/v2.0/**, you can perform the following steps (assuming you are working in a standalone container):

1. Install the basic set of fabric cloud commands:

```
karaf@root> features:install fabric-jclouds
```

2. Install the JClouds module for the **openstack-nova** API:

```
karaf@root> features:install jclouds-api-openstack-nova
```

3. Add the private cloud service, specifying the login credentials, API, and endpoint URL:

```
karaf@root> fabric:cloud-service-add --name myOpenStack --api
openstack-nova
--endpoint http://172.16.0.1:4000/v2.0/ --identity AccessKeyID --
credential SecretAccessKey
```



NOTE

You can provide additional customisation of the connection by setting options through the **--option** flag (which can appear multiple times in the command).

4. You are now ready to start creating compute instances on the **myOpenStack** cloud service, using the **fabric:container-create-cloud** command.

INSTALLING THE COMMAND IN A FABRIC

To access this command from a fabric container, you must have installed the **fabric-jclouds** feature. To install the **fabric-jclouds** feature, deploy the **cloud** profile into the current container, using the **fabric:container-change-profile** command.

For example, if the console is currently logged on to the **root** container of the Fabric, you could add the **cloud** profile as follows:

```
JBossA-MQ:karaf@root> fabric:container-list
[id] [version] [alive] [profiles]
[provision status]
root* 1.0 true fabric, fabric-
ensemble-0000-1 success
JBossA-MQ:karaf@root> fabric:container-change-profile root fabric fabric-
ensemble-0000-1 cloud
JBossA-MQ:karaf@root> fabric:container-list
[id] [version] [alive] [profiles]
[provision status]
root* 1.0 true fabric, fabric-
ensemble-0000-1, cloud success
```

ARGUMENTS

[Table 10.3, “fabric:cloud-service-add Arguments”](#) describes the command's arguments.

Table 10.3. fabric:cloud-service-add Arguments

| Argument | Interpretation |
|---------------------|--|
| --help | Displays the online help for this command. |
| --provider | The name of a commercial cloud provider (for example, aws-ec2 or rackspace). |
| --name | The JClouds service context name, which identifies the cloud service uniquely. Defaults to the provider name (as specified by the --provider option). |
| --api | Specifies the cloud API (for example, ec2 , openstack-nova , or cloudstack). |
| --endpoint | Specifies the cloud service's endpoint URL. |
| --identity | The identity used to access the cloud service. |
| --credential | The credential used to access the cloud service. |
| --owner | Specifies the EC2 AMI owner, which enables you to use private images (AWS EC2 only). |

| Argument | Interpretation |
|-----------------------------------|---|
| <code>--option</code> | Provider-specific properties. For example: <code>--option jclouds.regions=us-east-1</code> . If you want to specify more than one option, specify this option multiple times. |
| <code>--async-registration</code> | Do not wait for the provider registration (that is, complete the registration in a background thread). |

NAME

`fabric:cloud-service-list` — list the configured cloud providers

SYNOPSIS

`fabric:cloud-service-list` [`--help`]

DESCRIPTION

For each configured cloud provider, displays the provider name, type (**compute** or **blobstore**), and registration (**local**, for a standalone container, or **fabric**, for a Fabric Container).

To access this command, the current container must belong to a Fabric and you must have installed the **fabric-jclouds** feature. To install the **fabric-jclouds** feature, deploy the **cloud** profile into the current container, using the **fabric:container-change-profile** command.

For example, if the console is currently logged on to the **root** container of the Fabric, you could add the **cloud** profile as follows:

```
JBossA-MQ:karaf@root> fabric:container-list
[id] [version] [alive] [profiles] [provision status] root* 1.0 true
fabric, fabric-ensemble-0000-1 success
JBossA-MQ:karaf@root> fabric:container-change-profile root fabric fabric-
ensemble-0000-1 cloud
JBossA-MQ:karaf@root> fabric:container-list
[id] [version] [alive] [profiles] [provision status] root* 1.0 true
fabric, fabric-ensemble-0000-1, cloud success
```

ARGUMENTS

Table 10.4, “[fabric:cloud-service-list Arguments](#)” describes the command's arguments.

Table 10.4. `fabric:cloud-service-list` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |

NAME

`fabric:cloud-service-remove` — removes the specified cloud provider

SYNOPSIS

```
fabric:cloud-service-remove [ --help ] { Name }
```

DESCRIPTION

To access this command, the current container must belong to a Fabric and you must have installed the **fabric-jclouds** feature. To install the **fabric-jclouds** feature, deploy the **cloud** profile into the current container, using the **fabric:container-change-profile** command.

For example, if the console is currently logged on to the **root** container of the Fabric, you could add the **cloud** profile as follows:

```
JBossA-MQ:karaf@root> fabric:container-list
[id]                [version] [alive] [profiles]
[provision status]
root*               1.0         true   fabric, fabric-
ensemble-0000-1 success
JBossA-MQ:karaf@root> fabric:container-change-profile root fabric fabric-
ensemble-0000-1 cloud
JBossA-MQ:karaf@root> fabric:container-list
[id]                [version] [alive] [profiles]
[provision status]
root*               1.0         true   fabric, fabric-
ensemble-0000-1, cloud success
```

ARGUMENTS

Table 10.5, “[fabric:cloud-service-remove Arguments](#)” describes the command's arguments.

Table 10.5. fabric:cloud-service-remove Arguments

| Argument | Interpretation |
|--------------------|--|
| --help | Displays the online help for this command. |
| <i>Name</i> | The JClouds service context name, which represents the cloud provider. |

NAME

fabric:container-add-profile, **container-add-profile** — Adds the specified list of profiles to a container

SYNOPSIS

```
fabric:container-add-profile [ --help ] { Name } { Profiles }
```

ARGUMENTS

Table 10.6, “[fabric:container-add-profile Arguments](#)” describes the command's arguments.

Table 10.6. fabric:container-add-profile Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>Name</i> | Specifies the name of the container. |
| <i>Profiles</i> | Specifies the list of profiles to add to the container. |

NAME

`fabric:container-change-profile`, `container-change-profile` — replaces a fuse container's profiles with the specified list of profiles

SYNOPSIS

```
fabric:container-change-profile [ --help ] { Name } { Profiles }
```

ARGUMENTS

Table 10.7, “`fabric:container-change-profile` Arguments” describes the command's arguments.

Table 10.7. `fabric:container-change-profile` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>Name</i> | Specifies the name of the container. |
| <i>Profiles</i> | Specifies the list of profiles to deploy into the container. |

NAME

`fabric:container-connect`, `container-connect` — connects to a remote Fabric Container and execute the specified command

SYNOPSIS

```
fabric:container-connect [ --help ] [[ -u ] | [ --username User ] [[ -p ] | [ --password Password ] ] { ContainerName } [ Command ]
```

DESCRIPTION

This command allows you to connect to any container in the current fabric and execute a command. For example, to execute the `osgi:list` command on the `root2` container, you could enter a console command like [Example 10.1, “Executing a Command in a Remote Container”](#).

Example 10.1. Executing a Command in a Remote Container

```
JBossA-MQ:karaf@root> fabric:container-connect -u YourName -p YourPass
root2 osgi:list
```

This command uses fabric JAAS security to log into the container, so the username and password are managed by the container's JAAS realm.

ARGUMENTS

Table 10.8, “[fabric:container-connect Arguments](#)” describes the command's arguments.

Table 10.8. fabric:container-connect Arguments

| Argument | Interpretation |
|-----------------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>-u, --username</code> | Specifies the username for logging on to the remote container. The default is admin . |
| <code>-p, --password</code> | SPecifies the password for logging on to the remote container. The default is admin . |
| <i>ContainerName</i> | Specifies the name of the remote container. |
| <i>Command</i> | Specifies the console command to execute on the remote container. |

RELATED TOPICS

[Chapter 12, JAAS Console Commands](#)

NAME

fabric:container-create-child — create one or more child containers

SYNOPSIS

```
fabric:container-create-child [ --help ] [ --ensemble-server ] [ --profile profileID ] [ --version
version ] [ --jmx-user jmxUser ] [ --jmx-password jmxPass ] [ -b, --bind-address bindAddr ] [ --
datastore-type storeType ] [ --datastore-option storeOption ] [ --zookeeper-password zooPass ] [ --
jvm-opts jvmOpts ] [ --resolver policy ] [ -m, --manual-ip IPAddr ] { parent } { name } [ number ]
```

DESCRIPTION

Child containers have the following characteristics:

- Each child container has a parent, so that the child containers form a hierarchy, with the root container as the ultimate ancestor.
- The child starts in a new JVM instance (JVM options can be passed to the new JVM through the `--jvm-opts` command option).

- A complete set of data directories are created for the child instance, under the **ESBInstallDir/instances/ChildName** directory. The **ESBInstallDir/system** directory is shared with the root container.

For example, if you have already created a new fabric (for example, by invoking **fabric:create**), you could add some child containers to the root container by entering the following command:

```
karaf@root> fabric:container-create-child root child 3
```

This command creates three new children under the **root** container. To check that the containers have been successfully created, invoke the **fabric:container-list** command, as follows:

```
karaf@root> fabric:container-list
[id]                [version] [alive] [profiles]
[provision status]
root                1.0       true   fabric, fabric-
ensemble-0000-1
  child1            1.0       true   default
success
  child2            1.0       true   default
success
  child3            1.0       true   default
success
```

As you can see, the command creates three new child containers, **child1**, **child2**, and **child3**, with the **default** profile. These containers are ordinary (non-ensemble) containers, running fabric agents (ZooKeeper clients).

If you do not explicitly specify any profile (or profiles) for the new child containers, each of the child containers is created with the OSGi bundles required for a minimal Apache Karaf container and all of the profiles and bundles specified by the **default** profile.

To associate multiple profiles with a new child container, you can specify the **--profile** option multiple times. For example, if you want to deploy your own application profile, **myApp**, together with the **esb** profile, you would use a command like the following:

```
fabric:container-create-child --profile esb --profile myApp root
childMyApp
```

SHUTTING DOWN CHILD CONTAINERS

After you create new child containers, the children run as separate processes, independently of the parent. Consequently, when you shut down the parent container, *the child processes continue to run in the background*. If you want to shut down the children, you must explicitly invoke the **fabric:container-stop** command. For example, if a root container has three children—**child1**, **child2**, and **child3**—you can issue the following commands in the root container console to shut down all of the containers:

```
karaf@root> fabric:container-stop child1
karaf@root> fabric:container-stop child2
karaf@root> fabric:container-stop child3
karaf@root> shutdown -f
```

ARGUMENTS

[Table 10.9, “fabric:container-create-child Arguments”](#) describes the command's arguments.

Table 10.9. fabric:container-create-child Arguments

| Argument | Interpretation |
|-----------------------------|--|
| --help | Displays the online help for this command. |
| --jmx-user | The JMX username of the parent container. |
| --jmx-password | The JMX password of the parent container. |
| --ensemble-server | Whether the new container should be a Fabric Server. |
| --profile | A profile ID to associate with the new container. To associate multiple profiles with the container, specify this flag multiple times on the command line—for example, --profile foo --profile bar . If no profile is specified, the container is associated with the default profile. |
| --resolver | Specifies how the container will report its address to other containers. Valid values are localip , localhostname , publicip , publichostname , manualip . For more information see fabric:container-resolver-set . |
| -m, --manual-ip | The IP address to use, when using the manualip resolver. Used in combination with the --resolver option. |
| -b, --bind-address | Specifies the default bind address. |
| --datastore-type | Specifies the datastore type. |
| --datastore-option | Options to pass to the container's datastore. To specify multiple options, use this flag multiple times. |
| --zookeeper-password | Used in combination with the --ensemble-server option. If creating an ensemble server, specifies the Zookeeper password to use (if not specified, a password is generated automatically). |
| --version | Specifies the version of the new container (the version must be created in advance using fabric:version-create). Defaults to the current default version (use version-list to find the current default). |
| --jvm-opts | Specify options to pass to the container's JVM. |
| Parent | <i>(Required)</i> The parent container ID. |

| Argument | Interpretation |
|---------------|---|
| Name | <i>(Required)</i> The name of the container to create. When creating multiple containers, it serves as a prefix |
| Number | The number of containers that should be created. |

RELATED TOPICS

For more details about resolver policies, see:

[fabric:container-resolver-list](#)

[fabric:container-resolver-set](#)

[fabric:create](#)

NAME

`fabric:container-create-cloud` — creates one or more new containers on the cloud

SYNOPSIS

```
fabric:container-create-cloud [ --help ] [ --name contextName ] [ --provider cloudProvider ] [ --api cloudAPI ] [ --identity cloudIdentity ] [ --credential loginCredential ] [ --imageld imageID ] [ --os-family osFamily ] [ --os-version osVersion ] [ --hardwareId hardwareID ] [ --instanceType instanceType ] [ --locationId location ] [ --user userAcc ] [ --password userPass ] [ --public-key-file file ] [ --owner owner ] [ --group group ] [ --proxy-uri URI ] [ --ensemble-server ] [ --new-user jaasUser ] [ --new-user-password jaasUserPass ] [ --new-user-role jaasUserRole ] [ -b, --bind-address bindAddress ] [ --datastore-type storeType ] [ --datastore-option storeOption ] [ --zookeeper-password zooPass ] [ --resolver policy ] [ -m, --manual-ip IPAddr ] [ --env key=value ] [ --min-port minPort ] [ --max-port maxPort ] [ --profile profileID ] [ --version version ] [ --jvm-opts jvmOpts ] [ --add-option key=value ] [ --no-admin-access ] [ --path installPath ] { Name } [ Number ]
```

DESCRIPTION

To access this command, you must have installed the `fabric-jclouds` feature. To install the `fabric-jclouds` feature, enter the following console command:

```
features:install fabric-jclouds
```

The `fabric:container-create-cloud` command provisions the container as follows:

1. Creates a new node on the cloud provider. The node is created using a JClouds compute service: either by lookup in the service registry (using the provider ID as a property) or by instantiating a new node, by specifying the identity and credential of the provider.
2. Connects to the created node, using the authentication metadata returned upon the node creation (this is usually a username and private key, where the username can be overridden by the `--user` option). After it connects to the node, it executes a script, which downloads the

fabric distribution from the Maven proxy and untars the distribution.

By default, the script uses the oldest Maven proxy server in the current ensemble (every ensemble server has a Maven proxy server deployed in it). You can optionally override the default Maven proxy by specifying the **--proxy-uri** option. The script would then use the specified Maven proxy server to download the container runtime.



NOTE

The ability to override the Maven proxy is important in certain cases (for example, in a cloud deployment) where the remote host might not be able to access the default Maven proxy server.

3. Starts up the newly installed container (or containers) and installs the specified fabric profile (or profiles).
4. When creating multiple containers using this command (by adding the **Number** argument), multiple nodes will be created and a root container will be installed on each node.

By default, the newly created cloud containers belong to the current fabric (that is, the same fabric as the container from which you invoked the command). It is possible, however, to create a container on the compute instance that acts as the seed for a completely new fabric, separate from the current one. To create a new fabric on the compute instance, invoke the **fabric:container-create-cloud** command with the **--ensemble-server** flag, which makes the newly created container (or containers) an ensemble server, with its own fabric registry agent. The newly created ensemble server on the cloud *does not join the current ensemble*: it belongs to an independent ensemble (a new fabric).

ARGUMENTS

Table 10.10, “**fabric:container-create-cloud Arguments**” describes the command’s arguments.

Table 10.10. fabric:container-create-cloud Arguments

| Argument | Interpretation |
|---------------------|--|
| --help | Displays the online help for this command |
| --name | <i>(Required)</i> JClouds service context name. |
| --provider | JClouds provider name. |
| --api | The cloud API name. |
| --identity | The identity used to access the cloud service. |
| --credential | The credential used to access the cloud service. |
| --imageId | The image ID to use for the new node(s). Alternatively, the image can be specified indirectly using the --os-family and --os-version options. Defaults to an instance of the latest version of Ubuntu. |

| Argument | Interpretation |
|--------------------------|--|
| --os-family | Specify the image by requesting a particular kind of operating system—for example, ubuntu or redhat . To see which O/S families are available, type Tab while entering this option. Defaults to ubuntu . |
| --os-version | Specifies the version of the O/S family. The version number need not be exact (it will be rounded up to the latest available patch version). Defaults to the latest version available. |
| --hardwareId | Kind of hardware to use. |
| --instanceType | Type of instance required. |
| --locationId | The location used to create the new node(s). |
| --user | Specifies the O/S user account to run on the new nodes. If the user account does not already exist on the new nodes, it will automatically be created. Defaults to the username that matches the current user. |
| --password | Specifies the password associated with the O/S user account defined by the --user option. |
| --public-key-file | An option to specify a public key file to copy to the created node. Copying a public key file to a node can be used for SSH access using public key authentication. If no key file is specified, Fabric attempts to auto-detect the user's public key and, if found, this key will be used by default. |
| --owner | Optional owner of images; only really used for EC2, and will be deprecated in future. |
| --group | Group tag to use on the new node(s). Defaults to fabric . |
| --proxy-uri | URL of the Maven proxy server used to download the container runtime. |
| --ensemble-server | Whether the new container should be a Fabric Server (effectively creates a new fabric). |

| Argument | Interpretation |
|-----------------------------|--|
| --new-user | <p>Used in combination with the --ensemble-server option to ensure that at least one user exists in the JAAS realm of the Zookeeper login module for the new fabric (otherwise it would be impossible to connect to the newly created Fabric Server).</p> <p>When using this option, you <i>must</i> also specify a password using the --new-user-password option.</p> |
| --new-user-password | Used in combination with the --new-user option and the --ensemble-server option to specify the new user's password. No default value. |
| --new-user-role | Used in combination with the --new-user option and the --ensemble-server to specify the new user's role. Default is admin . |
| -b, --bind-address | Specifies the default bind address. |
| --datastore-type | Specifies the datastore type. |
| --datastore-option | Options to pass to the container's datastore. To specify multiple options, use this flag multiple times. |
| --zookeeper-password | <p>Used in combination with the --ensemble-server option. Specifies the Zookeeper password, which is used to access the Zookeeper nodes under the /fabric/ path. Defaults to the password of the current session user.</p> <p>If you subsequently try to join the current container to the newly-created Fabric Server (ensemble server) using the fabric:join command, you will be prompted to enter the Zookeeper password.</p> |
| --resolver | Specifies how the container will report its address to other containers. Valid values are localip , localhostname , publicip , publichostname , manualip . For more information see fabric:container-resolver-set . |
| -m, --manual-ip | The IP address to use, when using the manualip resolver. Used in combination with the --resolver option. |
| --env | Sets an environment variable. To specify multiple environment variables, use this flag multiple times. |
| --min-port | Specifies the minimum port number of the allowed IP port range. Default is 0 . |

| Argument | Interpretation |
|--------------------------------|--|
| <code>--max-port</code> | Specifies the maximum port number of the allowed IP port range. Default is 65535 . |
| <code>--profile</code> | A list of profile IDs to associate with the new container. |
| <code>--version</code> | Specifies the version of the new container (the version must be created in advance using fabric:version-create). Defaults to the current default version (use version-list to find the current default). |
| <code>--jvm-opts</code> | Specify options to pass to the container's JVM. |
| <code>--add-option</code> | Specifies generic JCloud properties or provider-specific properties. For example, when using Amazon with Amazon VPC to create a container inside a VPN, you can specify --option subnetId=yoursubnetId to define the VPC subnet where you want the node to be created. If you want to specify more than one option, specify this option multiple times. |
| <code>--no-admin-access</code> | Disables admin access, as it might not be feasible on all images. |
| <code>--path</code> | Path on the remote filesystem where the container is to be installed. |
| <i>Name</i> | <i>(Required)</i> The name of the container to create. When creating multiple containers, it serves as a prefix. |
| <i>Number</i> | The number of containers that should be created. |

RELATED TOPICS

See the other Fabric cloud commands:

- [fabric:cloud-provider-add](#)
- [fabric:cloud-provider-list](#)
- [fabric:cloud-provider-remove](#)

For more details about resolver policies, see:

- [fabric:container-resolver-list](#)
- [fabric:container-resolver-set](#)

- [fabric:create](#)

NAME

`fabric:container-create-ssh` — creates one or more new containers through SSH

SYNOPSIS

```
fabric:container-create-ssh [ --help ] [ --host host ] [ --port port ] [ --min-port minPort ] [ --max-port maxPort ] [ --path path ] [ --user user ] [ --password password ] [ --new-user newUser ] [ --new-user-password newPassword ] [ --new-user-role newRole ] [ --private-key keyPath ] [ --passphrase passPhrase ] [ --ssh-retries retries ] [ --proxy-uri URI ] [ --ensemble-server ] [ --profile profileID ] [ --version version ] [ -b, --bind-address bindAddress ] [ --datastore-type storeType ] [ --datastore-option storeOption ] [ --zookeeper-password zooPass ] [ --jvm-opts jvmOpts ] [ --resolver policy ] [ -m, --manual-ip IPAddr ] [ --env key=value ] [ --with-admin-access ] { Name } [ Number ]
```

DESCRIPTION

Specifically, this command provisions the container as follows:

1. Logs into the specified SSH host, using either the provided username and password *or* using the provided username and private key.
2. Runs a script on the remote host that that downloads the container runtime to the remote host. The runtime files are downloaded through a Maven proxy server. By default, the script uses the oldest Maven proxy server in the current ensemble (every Fabric Server has a Maven proxy server deployed in it). You can optionally override the default Maven proxy by specifying the `--proxy-uri` option. The script would then use the specified Maven proxy server to download the container runtime.



NOTE

The ability to override the Maven proxy is important in certain cases (for example, in a cloud deployment) where the remote host might not be able to access the default Maven proxy server.

3. Starts up the newly installed container (or containers) and installs the specified fabric profile (or profiles).

By default, the newly created containers belong to the current fabric (that is, the same fabric as the container from which you invoked the command). It is possible, however, to create a container on the remote host that acts as the seed for a completely new fabric, separate from the current one. To create a new fabric on the remote host, invoke the `fabric:container-create-ssh` command with the `--ensemble-server` flag, which makes the newly created container (or containers) a Fuse Server. The newly created Fuse Server on the remote host *does not join the current ensemble*: it belongs to an independent ensemble (a new fabric).

ARGUMENTS

[Table 10.11, “fabric:container-create-ssh Arguments”](#) describes the command's arguments.

Table 10.11. fabric:container-create-ssh Arguments

| Argument | Interpretation |
|----------------------------|---|
| --help | Displays the online help for this command |
| --host | <i>(Required)</i> Host name to SSH into. |
| --port | The IP port number for the SSH connection. Default is 22 . |
| --min-port | The minimum port number of the allowed IP port range. Default is 0 . |
| --max-port | The maximum port number of the allowed IP port range. Default is 65535 . |
| --path | Path on the remote filesystem where the container is to be installed. |
| --user | <i>(Required)</i> User name for login. |
| --password | Password for login. If the password is omitted, private key authentication is used instead. |
| --new-user | The username of a new user. The option refers to a Karaf user (ssh, http, jmx). Defaults is admin . |
| --new-user-password | The password of the new user. The option refers to a Karaf user (ssh, http, jmx). |
| --new-user-role | The role of the new user. The option refers to a Karaf user (ssh, http, jmx). |
| --private-key | Specifies the path to the private key on the local file system. The default is <code>~/ .ssh/id_rsa</code> on *NIX platforms or <code>C:\Documents and Settings\UserName\.ssh\id_rsa</code> on Windows. |
| --pass-phrase | The pass phrase of the key, if private key authentication is used and the private key is encrypted. |
| --ssh-retries | Maximum number or times to retry SSH connection. |
| --proxy-uri | URL of the Maven proxy server used to download the container runtime. |
| --ensemble-server | Whether the new container should be a Fabric Server. |

| Argument | Interpretation |
|-----------------------------|--|
| --profile | A list of profile IDs to associate with the new container. |
| --version | Specifies the version of the new container (the version must be created in advance using fabric:version-create). Defaults to the current default version (use version-list to find the current default). |
| -b, --bind-address | Specifies the default bind address. |
| --datastore-type | Specifies the datastore type. |
| --datastore-option | Options to pass to the container's datastore. To specify multiple options, use this flag multiple times. |
| --zookeeper-password | Used in combination with the --ensemble-server option. If creating an ensemble server, specifies the Zookeeper password to use (if not specified, a password is generated automatically). |
| --jvm-opts | Specify options to pass to the container's JVM. |
| --resolver | Specifies how the container will report its address to other containers. Valid values are localip , localhostname , publicip , publichostname , manualip . For more information see fabric:container-resolver-set . |
| -m, --manual-ip | The IP address to use, when using the manualip resolver. Used in combination with the --resolver option. |
| --env | Sets an environment variable. To specify multiple environment variables, use this flag multiple times. |
| --with-admin-access | Indicates that the target user has administrative access (password-less sudo). When this option is specified, Fabric will attempt to install any missing dependencies on the target host. |
| Name | <i>(Required)</i> The name of the container to create. When creating multiple containers, it serves as a prefix. |
| Number | The number of containers that should be created. |

RELATED TOPICS

For more details about resolver policies, see:

| |
|--|
| fabric:container-resolver-list |
| fabric:container-resolver-set |
| fabric:create |

NAME

`fabric:container-default-jvm-options`, `container-default-jvm-options` — get or set the default JVM options to use when creating a new container

SYNOPSIS

`fabric:container-default-jvm-options` [`--help`] [*JVMOptions*]

ARGUMENTS

Table 10.12, “[fabric:container-default-jvm-options Arguments](#)” describes the command's arguments.

Table 10.12. fabric:container-default-jvm-options Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>JVMOptions</i> | Sets the default JVM options for this container. If this argument is omitted, get the current default JVM options. |

NAME

`fabric:container-delete`, `container-delete` — stops and deletes a Fuse Container

SYNOPSIS

`fabric:container-delete` [`--help`] [`-r`] [`--recursive`] { *Name* }

DESCRIPTION

Deleting a Fuse Container deletes all of the files associated with the container from the host. If the container has children, the default behavior of the command is to leave the children in place. You can force the deletion of the children using the `-r` option.



NOTE

If the container to be deleted is a Fabric Server, you must first remove it from the ensemble using `fabric:ensemble-remove`.

ARGUMENTS

Table 10.13, “[fabric:container-delete Arguments](#)” describes the command's arguments.

Table 10.13. `fabric:container-delete` Arguments

| Argument | Interpretation |
|------------------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>-r, --recursive</code> | Recursively stops and deletes all child containers. |
| <i>Name</i> | Specifies the name of the container to delete. |

NAME

`fabric:container-domains`, `container-domains` — lists a container's JMX domains

SYNOPSIS

```
fabric:container-domains [ --help ] { Name }
```

ARGUMENTS

Table 10.14, “[fabric:container-domains Arguments](#)” describes the command's arguments.

Table 10.14. `fabric:container-domains` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |
| <i>Name</i> | Specifies the name of the container. |

NAME

`fabric:container-info`, `container-info` — displays information about the specified container

SYNOPSIS

```
fabric:container-info [ --help ] [ ContainerName ]
```

ARGUMENTS

Table 10.15, “[fabric:container-info Arguments](#)” describes the command's arguments.

Table 10.15. `fabric:container-info` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

| Argument | Interpretation |
|----------------------|---|
| <i>ContainerName</i> | Specifies the name of the container for which information is provided. If not specified, the container name defaults to root . |

NAME

`fabric:container-list`, `container-list` — lists the containers in a fabric

SYNOPSIS

`fabric:container-list` [`--help`] [`--version` *Version*] [`-v`] | [`--verbose`] [`ID`] | [*profile*]

ARGUMENTS

Table 10.16, “[fabric:container-list Arguments](#)” describes the command's arguments.

Table 10.16. `fabric:container-list` Arguments

| Argument | Interpretation |
|--|--|
| <code>--help</code> | Displays the online help for this command |
| <code>--version</code> | Specifies a profile version to use as filter. |
| <code>-v</code> , <code>--verbose</code> | Display verbose output. |
| <i>ID</i> | Specifies a container ID to use in filtering the output. |
| <i>profile</i> | Specifies a profile to use in filtering the output. When a profile is specified only the containers with the profile are listed. |

NAME

`fabric:container-remove-profile`, `container-remove-profile` — removes the specified list of profiles from the container

SYNOPSIS

`fabric:container-remove-profile` [`--help`] { *Name* } { *Profiles* }

ARGUMENTS

`fabric:container-remove-profile`, describes the command's arguments.

Table 10.17. `fabric:container-remove-profile` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>Name</i> | Specifies the name of the container. |
| <i>Profiles</i> | Specifies the list of profiles to remove from the container. |

NAME

`fabric:container-resolver-list` — show the resolver policies for the specified containers

SYNOPSIS

```
fabric:container-resolver-list [ --help ] [ containers ]
```

DESCRIPTION

For all containers in the fabric, list the resolver policy and the following variants of the host address: local IP address, local hostname, public IP address, public hostname, and manually specified IP address. The host addresses are found by looking them up in the Fabric Registry for each container. This information is stored in the Fabric Registry at the time when the container is created. In most cases, only the local IP address and the local hostname are known. The public IP address and public hostname are generally available only for cloud containers.

ARGUMENTS

[Table 10.18, “`fabric:container-resolver-list` Arguments”](#) describes the command's arguments.

Table 10.18. `fabric:container-resolver-list` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>containers</i> | List of containers for which the resolver policy is displayed. Shows all containers by default. |

RELATED TOPICS

[fabric:container-resolver-set](#)

NAME

`fabric:container-resolver-set` — specifies how the container reports its address to other containers

SYNOPSIS

```
fabric:container-resolver-set [ --help ] [ --container name ] [ --all ] { Resolver }
```

DESCRIPTION

Apply the specified resolver policy to the specified container or containers, where the resolver policy can take one of the following values:

```
localip
localhostname
publicip
publichostname
manualip
```

The **localip** and **localhostname** resolver policies are suitable for accessing a container in a LAN. The **publicip** and **publichostname** resolver policies are suitable for accessing a container in a WAN (Internet), but they are typically only available for cloud containers. In the case of a the cloud, **localip** and **localhostname** can be used for container-to-container connections within the cloud, but for container-to-container connections from outside the cloud, you must use **publicip** or **publichostname**.

Fabric manages host addresses as follows:

- When you create a new container, fabric tries to discover as much as it can about the container's host address and stores this information in the following fields in the fabric registry: **localip** (local IP address); **localhostname** (local hostname); **publicip** (public IP address); **publichostname** (public hostname).

For example, if you create a new container using the **fabric:container-create-ssh** command and specify the local IP address to the **--host** option, fabric attempts to perform a reverse lookup to obtain the corresponding local hostname and then stores both the local IP address *and* the local hostname in the Fabric Registry.

If you create a new container in the cloud, the metadata sent by the cloud provider typically includes a complete set of host addresses: **localip**, **localhostname**, **publicip**, and **publichostname**.

- Every container in the fabric has its own *resolver policy*, which determines what kind of host address is returned to another container that wants to connect to it. The container's resolver policy is set in one of the following ways:
 - (*Default*) By inheriting the resolver policy from the global resolver policy (specified at the time the fabric is created)
 - By specifying the resolver policy explicitly at the time the container is created (through the **--resolver** option).
 - By invoking the **fabric:container-resolver-set** command.
- The container's resolver policy is applied whenever fabric looks up the container's host address, irrespective of what protocol is involved. In particular, the resolver policy determines the form of the host address used in the following URLs:
 - Fabric Ensemble URL,
 - SSH URL (console client port),
 - Maven proxy URL,
 - JMX URL.

For example, if your fabric includes a container called **SSH1** (originally created using the

`fabric:container-create-ssh` command) and the **SSH1** container is configured with the **localip** resolver policy, any container that tries to connect to **SSH1** will automatically receive the local IP address of **SSH1** when it looks up the Fabric Registry.



NOTE

A container's resolver policy only affects the host address returned when *other* containers want to connect to it. The container's own policy has no effect on how the container resolves the host addresses of the other containers. In other words, if containers **X**, **Y**, and **Z** want to connect to container **SSH1**, the form of host address they get is determined by **SSH1**'s resolver policy. But if **SSH1** wants to connect to container **X**, it is container **X**'s resolver policy that is used.

MANUAL IP RESOLVER POLICY

The **manualip** resolver policy is a special case. If none of the standard resolver policies are suitable for your network set-up, you can manually specify a container's host address by setting the following key in the Fabric Registry:

```
/fabric/registry/containers/config/ContainerName/manualip
```

ARGUMENTS

Table 10.19, “[fabric:container-resolver-set Arguments](#)” describes the command's arguments.

Table 10.19. fabric:container-resolver-set Arguments

| Argument | Interpretation |
|--------------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>--container</code> | Apply the resolver policy to the specified container. To specify multiple containers, specify this flag multiple times on the command line—for example, <code>--container foo --container bar</code> . |
| <code>--all</code> | Apply the resolver policy to all containers in the fabric. |
| <i>Resolver</i> | <i>(Required)</i> The resolver policy to set on the specified container(s). Possible values are: localip , localhostname , publicip , publichostname , manualip . |

NAME

`fabric:container-rollback` — roll back the specified containers to an older version

SYNOPSIS

```
fabric:container-rollback [ --help ] [ --all ] { Version } [ ContainerList ]
```


DESCRIPTION

For an example of how this command is used, see [fabric:container-upgrade](#).

ARGUMENTS

[Table 10.20, “fabric:container-rollback Arguments”](#) describes the command's arguments.

Table 10.20. fabric:container-rollback Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>--all</code> | Roll back all containers. |
| <i>Version</i> | <i>(Required)</i> The version to roll back to. |
| <i>ContainerList</i> | The list of containers to roll back. An empty list implies the current container. |

NAME

`fabric:container-start`, `container-start` — start the specified container

SYNOPSIS

```
fabric:container-start [ --help ] { name }
```

ARGUMENTS

[Table 10.21, “fabric:container-start Arguments”](#) describes the command's arguments.

Table 10.21. fabric:container-start Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>Name</i> | Specifies the name of the container. |

NAME

`fabric:container-stop`, `container-stop` — shuts down the specified container

SYNOPSIS

```
fabric:container-stop [ --help ] { Name }
```

ARGUMENTS

[Table 10.22, “fabric:container-stop Arguments”](#) describes the command's arguments.

Table 10.22. fabric:container-stop Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>Name</i> | <i>(Required)</i> The name of the container. |

NAME

`fabric:container-upgrade` — upgrade the specified containers to a new version

SYNOPSIS

`fabric:container-upgrade` [`--help`] [`--all`] { *Version* } [*ContainerList*]

DESCRIPTION

This command is typically used in combination with the `fabric:profile-edit` command to guarantee atomicity of profile modifications. That is, if multiple edits need to be made to a profile, you can use `fabric:container-upgrade` to roll out all of the changes in one step.

For example, consider the container, `child1`, which is currently assigned to version 1.0 and has the `sample` profile deployed inside it. If you need to make multiple changes to the `sample` profile, you can roll out these changes atomically, as follows:

1. Create a new version, 1.1, to hold the pending changes, as follows:

```
karaf@root> fabric:version-create
Created version: 1.1 as copy of: 1.0
```

2. Now start editing the new version of the sample profile, remembering to specify `1.1`, so that the modifications are applied to version 1.1 of `sample`. For example, to add the `camel-quartz` feature to the sample profile, enter the following command:

```
fabric:profile-edit --features camel-quartz sample 1.1
```



NOTE

Instead of adding the option `1.1` to every edit command, you could change the default version to 1.1 by entering the command, `fabric:version-set-default 1.1`.

3. When you have finished editing the `sample` profile and you are ready to let the changes take effect on the container, `child1`, you can roll out the changes by upgrading the `child1` container to version 1.1, as follows:

```
fabric:container-upgrade 1.1 child1
```

4. If you are not happy with the changes you made, you can easily roll back to the old version of the `sample` profile, using the `fabric:container-rollback` command, as follows:

```
fabric:container-rollback 1.0 child1
```

ARGUMENTS

Table 10.23, “[fabric:container-upgrade Arguments](#)” describes the command's arguments.

Table 10.23. fabric:container-upgrade Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>--all</code> | Upgrade all containers. |
| <i>Version</i> | (Required) The version to upgrade to. |
| <i>ContainerList</i> | The list of containers to upgrade. An empty list implies the current container. |

NAME

`fabric:create` — creates a new fabric and imports fabric profiles

SYNOPSIS

```
fabric:create [ --help ] [ --clean ] [ --no-import ] [ --import-dir dir ] [[ -v ] | [ --verbose ]] [[ -t ] | [ --time
]millis] [[ -n ] | [ --non-managed ]] [[ -p ] | [ --profile profile] [[ -b ] | [ --bind-address bindAddr] [ --
new-user username ] [ --new-user-password password ] [ --new-user-role role ] [ --zookeeper-
password zooPassword ] [ --generate-zookeeper-password ] [ --zookeeper-data-dir dataDir ] [ --
zookeeper-init-limit ticks ] [ --zookeeper-sync-limit ticks ] [ --zookeeper-ticktime millis ] [ --wait-for-
provisioning ] [ --provision-timeout millis ] [[ -t ] | [ --time millis] [[ -g ] | [ --global-resolver policy]
[[ -r ] | [ --resolver policy] [[ -m ] | [ --manual-ip ipAddress] [ --min-port port ] [ --max-port port ] [ --
external-git-url gitURL ] [ --external-git-user gitUser ] [ --external-git-password gitPass ] [
ContainerList ]
```

DESCRIPTION

This command is used to create a new fabric. It can also be used to change the Fabric Servers in an existing fabric. Converting the current container into a fabric has two important side effects:

- The contents of a container should now be managed using *fabric profiles*. Do not try to deploy bundles and features directly in a fabric container.
- The default JAAS realm is superseded by the Zookeeper login module, which stores user data in the Zookeeper registry. As the fabric is created it initializes the user data by importing all of the user data that it finds in the `etc/users.properties` file. If the `users.properties` file is empty, you can specify a new user explicitly using the `--new-user` and `--new-user-password` options (at least one user *must* be defined).

If you want to create your own import directory with custom profile data, it is recommended that you proceed as follows:

1. Create a fabric that imports the sample profiles (for example, using `fabric:create`).

2. Modify the sample profiles using the **fabric:profile-create**, **fabric:profile-delete**, and **fabric:edit** commands.
3. Export the modified profiles using the **fabric:export** command.

ARGUMENTS

Table 10.24, “**fabric:create Arguments**” describes the command's arguments.

Table 10.24. fabric:create Arguments

| Argument | Interpretation |
|----------------------------|--|
| --help | Displays the online help for this command |
| --clean | Clean local zookeeper cluster and configurations. |
| --no-import | Disable the import of the sample registry data. |
| --import-dir | Directory of files to import into the newly created ensemble. |
| -v, --verbose | Flag to enable verbose output of files being imported. |
| -t, --time | How long to wait (milliseconds) for the ensemble to start up, before trying to import the default data. |
| -n, --non-managed | Specifies that the container remains unmanaged. |
| -p, --profile | Specifies the profile (or profiles) to use for the ensemble containers in the new fabric. To specify multiple profiles, specify this flag multiple times on the command line—for example, --profile foo --profile bar . |
| -b, --bind-address | The default bind address. |
| --new-user | <p>Create a new user in the new fabric's JAAS realm. Because the fabric:create command automatically imports user data from the etc/users.properties file, you would only need to specify this option, if the etc/users.properties file contains no valid user entries.</p> <p>When using this option, you <i>must</i> also specify a password using the --new-user-password option.</p> |
| --new-user-password | Used in combination with the --new-user option to specify the new user's password. No default value. |

| Argument | Interpretation |
|--------------------------------------|---|
| --new-user-role | Used in combination with the --new-user option to specify the new user's role. Default is admin . |
| --zookeeper-password | <p>Specifies the Zookeeper password, which is used to access the Zookeeper nodes under the /fabric/ path. Defaults to the password of the current session user.</p> <p>Subsequently, because the Zookeeper password is cached in the current session, you normally do not need to provide it when executing fabric commands. You can display the Zookeeper password at any time using the fabric:ensemble-password command.</p> |
| --generate-zookeeper-password | Directs Fabric to generate a random Zookeeper password. Subsequently, you can display the Zookeeper password using the fabric:ensemble-password command. |
| --zookeeper-data-dir | The location where ZooKeeper stores the in-memory database snapshots and, unless specified otherwise, the transaction log of updates to the database. Defaults to data/zookeeper . |
| --zookeeper-init-limit | The amount of time, in ticks, to allow followers to connect and sync to a leader. Defaults to 10. |
| --zookeeper-sync-limit | The amount of time, in ticks, to allow followers to sync with ZooKeeper. Defaults to 5. |
| --zookeeper-ticktime | The length of a single tick, which is the basic time unit used by ZooKeeper, as measured in milliseconds. It is used to regulate heartbeats and timeouts. For example, the minimum session timeout is two ticks. Defaults to 2000 . |
| --wait-for-provisioning | Flag to wait for the initial container provisioning. |
| --provision-timeout | How long to wait (in milliseconds) for the initial container provisioning. Defaults to 120000. |
| -t, --time | How long to wait (in milliseconds) for the ensemble to start up before trying to import the default data. Defaults to 2000. |

| Argument | Interpretation |
|--------------------------------|--|
| -g, --global-resolver | Specifies the global resolver policy, which becomes the default resolver policy applied to all new containers created in this fabric. Possible values are: localip , localhostname , publicip , publichostname , manualip . The default is localhostname . |
| -r, --resolver | Specifies the local resolver policy. Possible values are: localip , localhostname , publicip , publichostname , manualip . The default is localhostname . |
| -m, --manual-ip | If you select the manualip resolver policy (using either the --resolver or --global-resolver options), specifies the IP address to use for the resolver. |
| --min-port | Specifies the minimum port number of the allowed IP port range. Default is 0 . |
| --max-port | Specifies the maximum port number of the allowed IP port range. Default is 65535 . |
| --external-git-url | Specifies an external git url. |
| --external-git-user | Specifies an external git user. |
| --external-git-password | Specifies an external git password. |
| ContainerList | The list of containers to include in the ensemble. An empty list implies the current container. |

EXAMPLES

Create a fabric and import sample profiles from the **ESBInstallDir/fabric/import** directory, as follows:

```
fabric:create --clean
```

Create a fabric *without* imported profiles, as follows:

```
fabric:create --clean --no-import
```

Create a fabric and import profiles from the custom import directory, *CustomImportDir*, as follows:

```
fabric:create --clean --import-dir CustomImportDir
```

Re-create a fabric such that the containers, **reg1**, **reg2**, and **reg3**, are now included in the registry ensemble (an ensemble must consist of an odd number of containers):

```
fabric:create reg1 reg2 reg3
```

In this case, the contents of the Zookeeper registry are preserved and the ensemble is expanded to include the specified containers.

RELATED TOPICS

For more details about resolver policies, see:

- [fabric:container-resolver-list](#).
- [fabric:container-resolver-set](#).

NAME

`fabric:ensemble-add` — extend the current Fabric Ensemble by converting the specified containers into Fuse Servers

SYNOPSIS

```
fabric:ensemble-add [ --help ] { ContainerList }
```

DESCRIPTION

Because the total number of containers in an ensemble must always be odd, you should add an even number of containers.

For example, consider a fabric consisting of three containers—**root1**, **root2**, and **root3**—where **root1** is an Fuse Server and **root2** and **root3** are ordinary Fabric Containers. You can now add **root2** and **root3** to the current ensemble by entering the following console command:

```
fabric:ensemble-add root2 root3
```

Normally, it makes sense to have at most one Fabric Server running on each host, so that the specified containers are actually running on remote hosts (hence, it usually does not make sense to add child containers to an ensemble). You do not need to provide any information about where the containers are running, however, because fabric already knows the location of the containers in the fabric.



NOTE

Because the Fabric Ensemble is the key component of Fuse Fabric, changing the ensemble is a critical operation. All data will be preserved and copied to the new Fuse Servers before switching.

ARGUMENTS

Table 10.25, “[fabric:ensemble-add Arguments](#)” describes the command's arguments.

Table 10.25. fabric:ensemble-add Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>ContainerList</i> | The list of containers to add. |

NAME

`fabric:ensemble-list` — lists the Fuse Servers in the current Fabric Ensemble

SYNOPSIS

```
fabric:ensemble-list [ --help ]
```

DESCRIPTION

For a complete listing of *all* the containers in the fabric, use `fabric:container-list` instead.

ARGUMENTS

[Table 10.26, “`fabric:ensemble-list` Arguments”](#) describes the command's arguments.

Table 10.26. `fabric:ensemble-list` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`fabric:ensemble-password` — display the ensemble password

SYNOPSIS

```
fabric:ensemble-password [ --help ]
```

DESCRIPTION

The ensemble password protects access to the Zookeeper nodes under the `/fabric/` path, which contains critical configuration data for the fabric. To ensure integrity of the fabric configuration data, you should modify the fabric configuration exclusively using the `fabric:*` console commands.

ARGUMENTS

[Table 10.27, “`fabric:ensemble-password` Arguments”](#) describes the command's arguments.

Table 10.27. `fabric:ensemble-password` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`fabric:ensemble-remove` — remove the specified containers from the current ensemble

SYNOPSIS

```
fabric:ensemble-remove [ --help ] { ContainerList }
```

DESCRIPTION

Re-create the current ensemble, excluding the specified containers from the ensemble. All containers are switched to this new ensemble.



NOTE

Because the Fabric Ensemble is the key component of Fuse Fabric, changing the ensemble is a critical operation. All data will be preserved and copied to the new ensemble before switching.

ARGUMENTS

Table 10.28, “[fabric:ensemble-remove Arguments](#)” describes the command's arguments.

Table 10.28. fabric:ensemble-remove Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>ContainerList</i> | The list of containers to remove. Must be an even number of containers. |

NAME

`fabric:export` — export the contents of the Fabric Registry to the specified directory in the filesystem

SYNOPSIS

```
fabric:export [ --help ] [ -d|--delete ] [ -p|--path path ] [ -f|--regex regex ] [ -rf|--reverse-regex regex ] [ -t|--trim ] [ --dry-run ] { target }
```

DESCRIPTION

The output of this command is compatible with the import options of the other **fabric** commands. The regular expression options, **-f** and **-rf**, provide you with considerable flexibility at specifying which parts of the Fabric Registry to export. For example, to export every version of the **default** profile's data, you could use a command like the following:

```
fabric:export -f /fabric/configs/versions/[0-9\\.]* /profiles/default/.*
```

Where a double-backslash, `\\`, is required to escape the period, `.`, so that the period gets interpreted as a character literal.

ARGUMENTS

Table 10.29, “[fabric:export Arguments](#)” describes the commands arguments.

Table 10.29. fabric:export Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

| Argument | Interpretation |
|-----------------------------|--|
| -d, --delete | Delete the existing contents of the target directory before exporting. Caution: Performs a recursive delete! |
| -p, --path | Top-level znode to export. Default is <code>/</code> . |
| -f, --regex | Specifies a regular expression that matches the znode paths you want to <i>include</i> in the export. For multiple include expressions, specify this option multiple times. The regular expression syntax is defined by the <code>java.util.regex</code> package. To specify multiple regular expressions, specify this flag multiple times on the command line—for example, -regex foo --regex bar . |
| -rf, --reverse-regex | Specifies a regular expression that matches the znode paths you want to <i>exclude</i> from the export. For multiple exclude expressions, specify this option multiple times. The regular expression syntax is defined by the <code>java.util.regex</code> package. To specify multiple regular expressions, specify this flag multiple times on the command line—for example, -reverse-regex foo --reverse-regex bar . |
| -t, --trim | Trims the first timestamp comment line in properties files starting with the <code>#</code> character. |
| --dry-run | Log the actions that would be performed during an export, but do not actually perform the export. |
| -v, --version | <i>Not supported.</i> Since JBoss Fuse 6.1, versioned data is stored in a Git repository, not in the Zookeeper registry. |
| -p, --profile | <i>Not supported.</i> Since JBoss Fuse 6.1, profile data is stored in a Git repository, not in the Zookeeper registry. |
| target | Path of the directory to export to. Default is <code>./export</code> . |

NAME

`fabric:import` — import data either from a filesystem or from a properties file into the Fabric Registry

SYNOPSIS

```
fabric:import [ --help ] [ -fs|--filesystem ] [ -props|--properties URL ] [ -t|--target path ] [ -d|--delete ] [
-f|--regex regex ] [ -rf|--reverse-regex regex ] [ -v|--verbose ] [ --dry-run ] [ --version version ] [ -p|--profile
profileID ] { source }
```

ARGUMENTS

Table 10.30, “**fab:start Arguments**” describes the commands arguments.

Table 10.30. **fab:start Arguments**

| Argument | Interpretation |
|-----------------------------|--|
| --help | Displays the online help for this command |
| -fs, --filesystem | Indicates that the <i>source</i> argument is a directory on the filesystem. Defaults to true . |
| -props, --properties | Indicates that the <i>source</i> argument is a properties file. Defaults to false . |
| -t, --target | Path of the znode that the data is imported into. Default is <code>/</code> . |
| -d, --delete | Delete any paths that are not in the tree being imported. Ignored when importing a properties file. Caution: Using this option could permanently delete all or part of the Fabric Registry. |
| -f, --regex | Specifies a regular expression that matches the znode paths you want to <i>include</i> in the import. For multiple include expressions, specify this option multiple times. The regular expression syntax is defined by the java.util.regex package. To specify multiple regular expressions, specify this flag multiple times on the command line—for example, -regex foo --regex bar . |
| -rf, --reverse-regex | Specifies a regular expression that matches the znode paths you want to <i>exclude</i> from the import. For multiple exclude expressions, specify this option multiple times. The regular expression syntax is defined by the java.util.regex package. To specify multiple regular expressions, specify this flag multiple times on the command line—for example, -reverse-regex foo --reverse-regex bar . |
| -v, --verbose | Verbose log of files being imported. |
| --dry-run | Log the actions that would be performed during an import, but do not actually perform the import. |

| Argument | Interpretation |
|----------------------|--|
| --version | <i>Not supported.</i> Since JBoss Fuse 6.1, versioned data is stored in a Git repository, not in the Zookeeper registry. |
| -p, --profile | <i>Not supported.</i> Since JBoss Fuse 6.1, profile data is stored in a Git repository, not in the Zookeeper registry. |
| source | Location of a filesystem (if --filesystem is specified) or a properties file (if --properties is specified). Defaults to ./import . |

NAME

fabric:join — join a container to an existing fabric

SYNOPSIS

```
fabric:join [ --help ] [[ -f ] | [ --force ] ] [[ -p ] | [ --profile Profile ] ] [[ -n ] | [ --non-managed ] ] [ --zookeeper-password zooPassword ] [[ -r ] | [ --resolver policy ] ] [[ -m ] | [ --manual-ip ipAddress ] ] [ --min-port port ] [ --max-port port ] URL [ ContainerName ]
```

DESCRIPTION

The **fabric:join** command can be used in either of the following scenarios:

- You have an existing fabric, A, and you want to join a standalone container to fabric A.
- You have two separate fabrics, A and B, and you want to transfer a container from fabric B to fabric A.

ARGUMENTS

Table 10.31, “**fabric:join Arguments**” describes the command's arguments.

Table 10.31. fabric:join Arguments

| Argument | Interpretation |
|----------------------|---|
| --help | Displays the online help for this command. |
| -f, --force | Forces the provided container name to be used. |
| -p, --profile | Specifies the profile to associate with the container after it joins the fabric. The fabric profile, which installs the Fabric Agent, is automatically assigned to all managed containers. |

| Argument | Interpretation |
|-----------------------------|--|
| -n, --non-managed | Registers the container with the fabric's ensemble, but does not install a Fabric Agent into the container. The container's configuration is not managed by the fabric and continues to behave like a standalone container except that it can be discovered through the fabric's ensemble. |
| --zookeeper-password | The ensemble password for the fabric that you are trying to join. If you do not specify this option, you will be prompted to enter the password. |
| -r, --resolver | Specifies the local resolver policy. Possible values are: localip , localhostname , publicip , publichostname , manualip . The default is localhostname . |
| -m, --manual-ip | If you select the manualip resolver policy (using the --resolver option), specifies the IP address to use for the resolver. |
| --min-port | Specifies the minimum port number of the allowed IP port range. Default is 0 . |
| --max-port | Specifies the maximum port number of the allowed IP port range. Default is 65535 . |
| URL | Specifies the URL of one of the Fabric Servers, specified in the format Host[:Port] . The Port value defaults to 2181 . |
| ContainerName | Specifies a unique name for the container to use when joining the fabric. By default, the value of the karaf.name property from the etc/system.properties file is used. |

EXAMPLES

The following command will add a standalone container to a fabric as a managed container:

```
fabric:join myhostA ishmael
```

Where **myhostA** is the hostname of a Fabric Server (you must connect to a Fabric Server, not an ordinary fabric container) and the container is assigned the name **ishmael**. You will be prompted to enter the fabric's Zookeeper password.



IMPORTANT

If the container being added to a fabric is assigned the same name as a container that is already a part of the fabric, the original container will be reset to have the same settings as the new container.

**WARNING**

If no container name is specified as part of the command, the command will use the value of the `karaf.name` property from the `etc/system.properties` file. The default setting for this property is `root`. To avoid conflicts, you should either specify a container name or change the value of the `karaf.name` property.

To make sure that the container starts up with a specific profile, you use the `-p` argument as follows:

```
fabric:join -p whaler myhostA ishmael
```

The container `ishmael` is assigned the profile, `whaler`, when it joins the fabric.

If you want to be able to configure the container manually, but take advantage of the fabric's discovery features, you can add the container as a non-managed container using the following command:

```
fabric:join -n myhostA ishmael
```

NAME

`fabric:mq-create` — create a new broker profile

SYNOPSIS

```
fabric:mq-create [ --help ] [ --group groupName ] [ --networks brokerGroup, ... ] [ --networks-username user ] [ --networks-password password ] [ --create-container containerID, ... ] [ --assign-container containerID, ... ] [ --config configFile ] [ --data dataDir ] [ --kind brokerKind ] [ --replicas num ] [ --ports ports ] [ --profile profile ] [ --parent-profile parentProfile ] [ --client-profile clientProfile ] [ --client-parent-profile clientParentProfile ] [ --minimum-instances num ] [ [ --property ] | [ -D ]prop ] [ --jmx-user jmxUser ] [ --jmx-password jmxPassword ] [ --jvm-opts jvmOpts ] [ --version version ] { name }
```

ARGUMENTS

Table 10.32, “[fabric:mq-create Arguments](#)” describes the command's arguments.

Table 10.32. fabric:mq-create Arguments

| Argument | Description |
|--|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>--group <i>groupName</i></code> | Specifies the name of the group to which brokers using this profile are assigned. By default brokers are assigned to the default group. |
| <code>--networks <i>brokerGroup</i></code> | Specifies a broker group to which brokers using this profile will establish network connections to form a network of brokers. To specify multiple broker groups, specify this flag multiple times on the command line—for example, <code>--networks GroupA --networks GroupB</code> . |

| Argument | Description |
|--|---|
| --networks-username | Specifies the username part of the credentials that are used to connect to the broker networks specified by the --networks option. |
| --networks-password | Specifies the password part of the credentials that are used to connect to the broker networks specified by the --networks option. |
| --create-container <i>containerID</i>,... | Specifies a comma separated list of child containers to create using the new profile. The new containers will be children of the container from which the command is executed. |
| --assign-container <i>containerID</i>,... | Specifies a comma separated list of containers to which the new profile will be deployed. |
| --config <i>configFile</i> | Specifies the ensemble path of the XML configuration template used by the profile. The path will have the syntax <i>/fabric/configs/versions/version/profiles/profile/config.xml</i> . |
| --data <i>dataDir</i> | Specifies the path, relative to the container, for storing the persistence data for a broker using the profile. |
| --kind <i>brokerKind</i> | The kind of broker to create. |
| --replicas <i>num</i> | Number of replicas required for replicated brokers (which typically use a parent-profile of mq-replicated profile). |
| --ports <i>port</i> | Port number for a transport connector, specified using the syntax --ports <i>transportConnectorName=port</i> , where <i>transportConnectorName</i> is the value of the name attribute from a transportConnector element in the configuration template. To specify multiple ports, specify this flag multiple times on the command line—for example, --ports <i>openwire=11111</i> --ports <i>mqtt-ssl=4321</i> . |
| --no-ssl | Disables support for SSL/TLS protocol. |
| --profile <i>profile</i> | The profile name to create or update, if defining N+1 broker groups. Defaults to mq-broker-\$GROUP.\$NAME . |

| Argument | Description |
|---|--|
| <code>--parent-profile <i>parentProfile</i></code> | The parent profile to extend. |
| <code>--client-profile <i>clientProfile</i></code> | The profile name for clients to use to connect to the broker group. Defaults to mq-client-<i>\$GROUP</i> . |
| <code>--client-parent-profile <i>clientParentProfile</i></code> | The parent profile used for the client-profile for clients connecting to the broker group. Defaults to default . |
| <code>--minimum-instances <i>num</i></code> | Minimum number of containers required of this broker's profile. |
| <code>--property, -D</code> | Additional properties to define in the profile. To specify multiple properties, specify this flag multiple times on the command line—for example, --property keyA=valA --property keyB=valB . |
| <code>--jmx-user</code> | The JMX username for logging on to the parent's JMX port. |
| <code>--jmx-password</code> | The JMX password for logging on to the parent's JMX port. |
| <code>--jvm-opts</code> | Specify options to pass to the container's JVM. |
| <code>--version <i>version</i></code> | Specifies the version into which the profile is stored. Defaults to the current default version. |
| <i>name</i> | Specifies the name of the new broker profile. |

EXAMPLES

To create a new broker profile with the name **myBrokerProfile** that uses the XML template file **myConfigTemplate.xml** use the command:

```
fabric:mq-create --config /fabric/configs/versions/1.0/profiles/mq-base/myConfigTemplate.xml myBrokerProfile
```

To create a new broker profile and create a new container using the new profile use the command:

```
fabric:mq-create --config /fabric/configs/versions/1.0/profiles/mq-base/myConfigTemplate.xml --create-container broker1 myBrokerProfile
```

To create a new broker profile and associate it with an existing container use the command:

```
fabric:mq-create --config /fabric/configs/versions/1.0/profiles/mq-base/myConfigTemplate.xml --assign-container container1 myBrokerProfile
```


SSL/TLS SUPPORT

For SSL/TLS support, the Java command-line utility, **keytool**, *must* be available on your PATH. To disable SSL/TLS support, specify the **--no-ssl** option.

NAME

fabric:patch-apply — apply a patch to the specified version or versions.

SYNOPSIS

```
fabric:patch-apply [ --help ] [ [-u ] | [ --username ]User ] [ [-p ] | [ --password ]Password ] [ --version Version ] [ --all-versions ] { URL }
```

ARGUMENTS

Table 10.33, “fabric:patch-apply Arguments” describes the command's arguments.

Table 10.33. fabric:patch-apply Arguments

| Argument | Interpretation |
|-----------------------|--|
| --help | Displays the online help for this command. |
| -u, --username | Remote user name. |
| -p, --password | Remote user password. |
| --version | Applies the patch to the specified version. Defaults to the current default version. |
| --all-versions | Applies the patch to all versions. |
| <i>URL</i> | Specifies the URL from which the patch is downloaded. |

NAME

fabric:profile-change-parents — replace the profile's parents with the specified list of parents (where the parents are specified as a space-separated list)

SYNOPSIS

```
fabric:profile-change-parents [ --help ] [ --version version ] { Name } { ParentList }
```

ARGUMENTS

Table 10.34, “fabric:profile-change-parents Arguments” describes the command's arguments.

Table 10.34. fabric:profile-change-parents Arguments

| Argument | Interpretation |
|-------------------|---|
| --help | Displays the online help for this command |
| --version | The profile version. Defaults to the current default version (use version-list to find the current default). |
| <i>Name</i> | <i>(Required)</i> Name of the profile. |
| <i>ParentList</i> | <i>(Required)</i> The list of new parent profiles. |

NAME

fabric:profile-copy, profile-copy — copies the specified version of the source profile (where the version defaults to the current default version)

SYNOPSIS

```
fabric:profile-copy [ --help ] [ --version Version ] [ -f ] [ --force ] { SourceProfile } { TargetProfile }
```

ARGUMENTS

Table 10.35, “[fabric:profile-copy Arguments](#)” describes the command's arguments.

Table 10.35. fabric:profile-copy Arguments

| Argument | Interpretation |
|----------------------|---|
| --help | Displays the online help for this command. |
| --version | The profile version to copy. Defaults to the current default version. |
| -f, --force | Flag to allow overwriting the target profile (if it already exists). |
| <i>SourceProfile</i> | The name of the profile to copy. |
| <i>TargetProfile</i> | The name of the newly created copy. |

NAME

fabric:profile-create — create a new profile with the specified name and version

SYNOPSIS

```
fabric:profile-create [ --help ] [ --version version ] [ --parents parentList ] { Name }
```

DESCRIPTION

The new profile is created *only for the version you specify* (or the current default version). If you want to create a profile for every version, you must invoke **fabric:profile-create** separately for each version (use **fabric:version-list** to list all versions).

The newly created profile is initially empty, apart from the settings inherited from the parent profiles. To add settings to the new profile, use the **fabric:profile-edit** command.

For example, to add the new profile, **test**, which has the current default version and inherits from the parent profiles, **mq** and **camel**, enter the following console command:

```
fabric:profile-create --parents mq --parents camel test
```

ARGUMENTS

Table 10.36, “**fabric:profile-create Arguments**” describes the command's arguments.

Table 10.36. fabric:profile-create Arguments

| Argument | Interpretation |
|------------------|---|
| --help | Displays the online help for this command |
| --version | The profile version. Defaults to the current default version (use version-list to find the current default). |
| --parents | Optionally specifies one or multiple parent profiles. To specify multiple parent profiles, specify this flag multiple times on the command line—for example, --parents foo --parents bar . |
| <i>Name</i> | (Required) Name of the new profile. |

NAME

fabric:profile-delete — delete the specified version of the specified profile (where the version defaults to the current default version)

SYNOPSIS

```
fabric:profile-delete [ --help ] [ --version version ] { Profile }
```

ARGUMENTS

Table 10.37, “**fabric:profile-delete Arguments**” describes the command's arguments.

Table 10.37. fabric:profile-delete Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |

| Argument | Interpretation |
|------------------|---|
| --version | The profile version to delete. Defaults to the current default version (use version-list to find the current default). |
| <i>Profile</i> | <i>(Required)</i> Name of the profile to delete. |

NAME

`fabric:profile-display` — displays information about the specified version of the specified profile (where the version defaults to the current default version)

SYNOPSIS

```
fabric:profile-display [ --help ] [ --version version ] [ -o ] [ --overlay ] {
    Profile
}
```

ARGUMENTS

[Table 10.38, “fabric:profile-display Arguments”](#) describes the command's arguments.

Table 10.38. fabric:profile-display Arguments

| Argument | Interpretation |
|----------------------|---|
| --help | Displays the online help for this command |
| --version | Select a specific profile version. Defaults to the current default version (use version-list to find the current default). |
| -o, --overlay | Enable overlay. Shows the effective profile settings, taking into account the settings inherited from parent profiles. |
| <i>Profile</i> | <i>(Required)</i> The name of the profile. |

NAME

`fabric:profile-edit` – edits the specified version of the specified profile (where the version defaults to the current default version)

SYNOPSIS

```

fabric:profile-edit [
  --help
] [[
  -p
] | [
  --pid
]PID] [[
  -r
] | [
  --repositories
] | [
  -f
] | [
  --features
] | [
  -b
] | [
  --bundles
] | [
  --fabs
] | [
  -c
] | [
  --config
] | [
  -s
] | [
  --system
] | [
  -o
] | [
  --overrides
] | [
  -l
] | [
  --libs
] | [
  -n
] | [
  --endorsed
] | [
  -x
] | [
  --extension
]] [[
  --set
] | [
  --delete
]] [[
  --append
] | [
  --remove

```

```

]] [
--import-pid
] [[
--delimiter
]delim] [[
--resource
]ResourceName] {
Profile
} [
Version
]

```

DESCRIPTION

In the specified profile, you can edit different kinds of settings, as follows:

- *Feature repository locations*—to add a feature repository to the profile, enter a command in the following format:

```
fabric:profile-edit --repositories RepoURL Profile [Version]
```

For example, to add the fuse-fabric feature repository to the profile, enter a command like the following:

```
fabric:profile-edit --repositories mvn:io.fabric8/fuse-
fabric/6.1.0.redhat-379/xml/features Profile [Version]
```

To delete repositories, enter a command of the following form:

```
fabric:profile-edit --delete --repositories RepoURL Profile
[Version]
```

To edit repository locations directly, using a visual text editor, enter the following command:

```
fabric:profile-edit Profile [Version]
```

The visual editor opens, showing the contents of the specified profile's agent properties. To edit the repository settings, add, modify, or delete lines of the following form:

```
repository.ID=URL
```

Where *ID* is an arbitrary unique identifier and *URL* gives the location of a single feature repository. Only one repository URL can be specified on each line.

- *Features to install*—to add features to the profile, enter a command in the following format:

```
fabric:profile-edit --features FeatureName Profile [Version]
```

To add multiple features, you can specify the `--features` flag multiple times in this command. For example, to add the `camel-jetty` and the `camel-quartz` features to the default version of the `sample` profile, enter a command like the following:

```
fabric:profile-edit --features camel-jetty --features camel-quartz
sample
```

To delete features, enter a command of the following form:

```
fabric:profile-edit --delete --features FeatureName Profile
[Version]
```

To edit features directly, using the visual text editor, enter the following command:

```
fabric:profile-edit Profile [Version]
```

The visual editor opens, showing the contents of the specified profile's agent properties. To edit the features, add, modify, or delete lines of the following form:

```
feature.ID=FeatureName
```

Where *ID* is an arbitrary unique identifier and *FeatureName* is the name of a feature.

- **Bundles to install**—to add bundles to the profile, enter a command in the following format:

```
fabric:profile-edit --bundles BundleURL Profile [Version]
```

For example, to add camel-quartz bundle to the sample profile, enter a command like the following:

```
fabric:profile-edit --bundles mvn:org.apache.camel/camel-quartz/2.12.0.redhat-610379 sample
```

To delete bundles, enter a command of the following form:

```
fabric:profile-edit --delete --bundles BundleURL Profile [Version]
```

To edit bundles directly, using the visual text editor, enter the following command:

```
fabric:profile-edit Profile [Version]
```

The visual editor opens, showing the contents of the specified profile's agent properties. To edit the bundles, add, modify, or delete lines of the following form:

```
bundle.ID=URL
```

Where *ID* is an arbitrary unique identifier and *URL* specifies the bundle's location.

- **Configuration settings for the OSGi Config Admin service**—to modify or create a configuration setting from the OSGi Config Admin service, enter a command in the following format:

```
fabric:profile-edit --pid PID/Property=Value Profile [Version]
```

Where *PID* is a persistent ID, which is used in the context of

the OSGi Config Admin service to identify a collection of related properties. For example, to change the value of the secure HTTPS port used by the Jetty server in the sample profile, you could edit the `org.osgi.service.http.port.secure` property from the `org.ops4j.pax.web` PID using a command like the following:

```
fabric:profile-edit --pid
org.ops4j.pax.web/org.osgi.service.http.port.secure=8553 sample
```

To delete a property, enter a command of the following form:

```
fabric:profile-edit --delete --pid PID/Property Profile [Version]
```

If the value of the PID property has the form of a comma-separated list, you can use the `--append` option and the `--remove` option to manipulate the list value. For example:

```
fabric:profile-edit --pid org.example.foo/my.prop=a Profile
[Version]
fabric:profile-edit --append --pid org.example.foo/my.prop=b Profile
[Version]
fabric:profile-edit --append --pid org.example.foo/my.prop=c Profile
[Version]
fabric:display Profile
...
PID: org.example.foo
    my.prop a,b,c
```

To edit OSGi Config Admin settings directly, using the visual text editor, enter the following command:

```
fabric:profile-edit --pid PID Profile [Version]
```

The visual editor opens, showing the contents of the specified profile's `PID.properties` file (which is actually stored in the ZooKeeper registry). To edit the properties, add, modify, or delete lines of the following form:

```
Property=Value
```

- *Property settings from etc/config.properties*—to modify or create a Java system property in the container's `etc/config.properties`

file (which affects the container), enter a command in the following format:

```
fabric:profile-edit --config Property=Value Profile [Version]
```

For example, to change the value of the `karaf.startlevel.bundle` Java system property in `config.properties`, you would enter a command like the following:

```
fabric:profile-edit --config karaf.startlevel.bundle=80 Profile [Version]
```

To delete a Java system property from `config.properties`, enter a command of the following form:

```
fabric:profile-edit --delete --config Property Profile [Version]
```

If the value of the configuration property has the form of a comma-separated list, you can use the `--append` option and the `--remove` option to manipulate the list value. For example:

```
fabric:profile-edit --config my.prop=a Profile [Version]
fabric:profile-edit --append --config my.prop=b Profile [Version]
fabric:profile-edit --append --config my.prop=c Profile [Version]
fabric:display Profile
...
Config Properties :
    my.prop =    a,
                b,
                c
```

To edit the Java system properties directly, using the visual text editor, enter the following command:

```
fabric:profile-edit Profile [Version]
```

The visual editor opens, showing the contents of the specified profile's agent properties. To edit the Java system properties (analogous to `etc/config.properties`), add, modify, or delete lines of the following form:

```
config.Property=Value
```

•

Property settings from etc/system.properties—to modify or create a Java system property in the container's `etc/system.properties` file (which affects bundles deployed in the container), enter a command in the following format:

```
fabric:profile-edit --system Property=Value Profile [Version]
```

For example, to change the default port for the OSGi HTTP service, you would enter a command like the following:

```
fabric:profile-edit --system org.osgi.service.http.port=8181 Profile [Version]
```

If the system property, *Property*, is already set at the JVM level (for example, through the `--jvm-opts` option to the `fabric:container-create` command), the preceding `fabric:profile-edit` command *will not override the JVM level setting*. If you want to override the JVM level setting, you must indicate this explicitly by adding the `karaf.override` prefix to the property name, *Property*—for example:

```
fabric:profile-edit --system karaf.override.Property=Value Profile [Version]
```

To delete a Java system property from `system.properties`, enter a command of the following form:

```
fabric:profile-edit --delete --system Property Profile [Version]
```

If the value of the system property has the form of a comma-separated list, you can use the `--append` option and the `--remove` option to manipulate the list value. For example:

```
fabric:profile-edit --system my.prop=a Profile [Version]
fabric:profile-edit --append --system my.prop=b Profile [Version]
fabric:profile-edit --append --system my.prop=c Profile [Version]
fabric:display Profile
...
System Properties :
```

```
my.prop = a,  
         b,  
         c
```

To edit the Java system properties directly, using the visual text editor, enter the following command:

```
fabric:profile-edit Profile [Version]
```

The visual editor opens, showing the contents of the specified profile's agent properties. To edit the Java system properties (analogous to `etc/system.properties`), add, modify, or delete lines of the following form:

```
system.Property=Value
```

If you want to ensure that this setting overrides any JVM level setting, set the system property as follows:

```
system.karaf.override.Property=Value
```



IMPORTANT

Any modifications you make to a profile using `fabric:profile-edit` are *immediately* propagated to the containers that use that profile. This is not the recommended way to edit profiles, however: if you change multiple settings in the profile, you could potentially put the affected containers into an inconsistent state. To guarantee atomicity, it is better to use the `fabric:profile-edit` command in combination with the `fabric:container-upgrade` command—see [fabric:container-upgrade](#).

ENCLOSING AN OPTION VALUE IN QUOTES

The Karaf shell strips double quotes from an option by default. Hence, to enclose an option value in double quotes, it is necessary to enclose the whole setting in double quotes and to escape the quotes around the option value. For example, to define the system property setting,

`http.nonProxyHosts="myserver1|myserver2"`, on the default profile, you would use the following command:

```
fabric:profile-edit --system
"karaf.override.http.nonProxyHosts=\"myserver1|myserver2\" default
```

Where the `karaf.override` prefix is prepended to the property name, because `http.nonProxyHosts` is already set at the JVM level and needs to be overridden.

ARGUMENTS

Table 10.39, “`fabric:profile-edit Arguments`” describes the command's arguments.

Table 10.39. `fabric:profile-edit Arguments`

| Argument | Interpretation |
|---|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-p</code> , <code>--pid</code> | Edit an OSGi configuration property, specified in the format <i>PID/Property</i> . To specify multiple values, specify this flag multiple times on the command line—for example, <code>--pid <i>PID/Property=Value</i> --pid <i>PID/Property=Value</i></code> . |
| <code>-r</code> , <code>--repositories</code> | Add (or delete) a feature repository. To specify multiple values, specify this flag multiple times on the command line—for example, <code>--repositories <i>foo</i> --repositories <i>bar</i></code> . |
| <code>-f</code> , <code>--features</code> | Add (or delete) a feature. To specify multiple values, specify this flag multiple times on the command line—for example, <code>--features <i>foo</i> --features <i>bar</i></code> . |
| <code>-b</code> , <code>--bundles</code> | Add (or delete) a bundle. To specify multiple values, specify this flag multiple times on the command line—for example, <code>--bundles <i>foo</i> --bundles <i>bar</i></code> . |
| <code>--fabs</code> | Add (or delete) a FAB. To specify multiple values, specify this flag multiple times on the command line—for example, <code>--fabs <i>foo</i> --fabs <i>bar</i></code> . |

| Argument | Interpretation |
|------------------------|---|
| -c, --config | Edit the Java system properties that affect the container (analogous to editing etc/config.properties in a root container). To edit multiple configuration properties, specify this flag multiple times on the command line—for example, --config Property=Value --config Property=Value . |
| -s, --system | Edit the Java system properties that affect installed bundles (analogous to editing etc/system.properties in a root container). To edit multiple system properties, specify this flag multiple times on the command line—for example, -system Property=Value --system Property=Value . |
| -o, --overrides | Add (or delete) a bundle override. A bundle override can be used to override the bundle version installed by a feature. For example, if a feature installs version 1.0.0 of a particular bundle, you could use a bundle override to install version 1.0.1 of the bundle instead. To specify multiple values, specify this flag multiple times on the command line—for example, --overrides BundleURL --overrides BundleURL . |
| -l, --libs | Add (or delete) a library. To specify multiple values, specify this flag multiple times on the command line—for example, --libs LibURL --libs LibURL . |
| -n, --endorsed | Add (or delete) an endorsed library. To specify multiple values, specify this flag multiple times on the command line—for example, --endorsed LibURL --endorsed LibURL . |
| -x, --extension | Add (or delete) an extension library. To specify multiple values, specify this flag multiple times on the command line—for example, --extension LibURL --extension LibURL . |
| --set | Set or create values (selected by default). |
| --delete | Delete values. |
| --append | When editing list values, append the specified value to the list. Can only be used in combination with the --config , --system , and --pid options. |

| Argument | Interpretation |
|-------------------------|--|
| --remove | When editing list values, remove the specified value from the list. Can only be used in combination with the --config , --system , and --pid options. |
| --delimiter | Specifies the delimiter to use in combination with the --append and --remove options. Default is <code>,</code> (comma). |
| --resource | When editing with the visual text editor, specifies the name of the resource to edit. |
| -i, --import-pid | Imports the PIDs that are edited, from local OSGi Config Admin. |
| Profile | <i>(Required)</i> Name of the profile to edit. |
| Version | Version of the profile to edit. Defaults to the current default version (use version-list to find the current default). |

NAME

fabric:profile-list – lists all profiles that belong to the specified version (where the version defaults to the current default version)

SYNOPSIS

```
fabric:profile-list [
  --help
] [
  --version version
] [
  --hidden
]
```

DESCRIPTION**ARGUMENTS**

[Table 10.40, “fabric:profile-list Arguments”](#) describes the command's arguments.

Table 10.40. fabric:profile-list Arguments

| Argument | Interpretation |
|------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>--version</code> | Specifies the version of the profiles to list. Defaults to the current default version (use version-list to find the current default). |
| <code>--hidden</code> | Shows hidden profiles. |

NAME

`fabric:profile-refresh`, `profile-refresh` – performs a change to the profile, that triggers the deployment agent. It's intended to be used for scanning for snapshot changes

SYNOPSIS

```
fabric:profile-refresh [
  --help
] {
  Profile
} [
  Version
]
```

ARGUMENTS

[Table 10.41, “fabric:profile-refresh Arguments”](#) describes the command's arguments.

Table 10.41. fabric:profile-refresh Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |
| <i>Profile</i> | The profile to refresh. |
| <i>Version</i> | The profile version to refresh. Defaults to the current default version. |

NAME

fabric:profile-rename, profile-rename – rename the specified version of the source profile (where the version defaults to the current default version)

SYNOPSIS

```
fabric:profile-rename [
  --help
] [
  --version Version
] [
  -f
] [
  --force
] {
  OldName
} {
  NewName
}
```

ARGUMENTS

[Table 10.42, “fabric:profile-rename Arguments”](#) describes the command's arguments.

Table 10.42. fabric:profile-rename Arguments

| Argument | Interpretation |
|-----------------------|---|
| --help | Displays the online help for this command. |
| --version | The profile version to rename. Defaults to the current default version. |
| -f, --force | Flag to allow replacing the target profile (if it already exists). |
| <i>OldName</i> | The current name of the profile. |
| <i>NewName</i> | The new name of the profile. |

NAME

fabric:require-profile-delete – deletes requirements on the specified profile

SYNOPSIS

```
fabric:require-profile-delete [
  --help
] {
```

```

    Profile
  }

```

ARGUMENTS

[Table 10.43, “fabric:require-profile-delete Arguments”](#) describes the command's arguments.

Table 10.43. fabric:require-profile-delete Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>Profile</i> | A profile ID. |

NAME

`fabric:require-profile-list` – lists all profile requirements in the current fabric

SYNOPSIS

```

fabric:require-profile-list [
    --help
]

```

DESCRIPTION

For example, if both the `example-camel` profile and the `example-cxf` profile have requirements set, you could see output like the following:

```

karaf@root> fabric:require-profile-list
[profile]                [# minimum]    [# maximum]
[depends on]
example-camel            2              4
example-cxf              2              4

```

ARGUMENTS

[Table 10.44, “fabric:require-profile-list Arguments”](#) describes the command's arguments.

Table 10.44. fabric:require-profile-list Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`fabric:require-profile-set` – associates requirements with the specified profile

SYNOPSIS

```
fabric:require-profile-set [
  --help
] [
  --minimum MinInstance
] [
  --maximum MaxInstance
] [
  --dependsOn Dependency
] {
  Profile
}
```

DESCRIPTION

Requirements associated with a profile are used to assess the health of the current fabric. Profile requirements are entirely passive. For example, if the number of running instances of a profile is less than the minimum or greater than the maximum, monitoring tools can be configured to indicate a problem or to trigger an alert. Otherwise, the requirements have no effect on the fabric.

In Fuse IDE a green/red bar indicates what proportion of the required profile instances are currently running in the fabric.

For example, to require a range of 2 to 4 running instances of the `example-camel` profile, you would enter the following command:

```
karaf@root> require-profile-set --minimum 2 --maximum 4 example-camel
```

ARGUMENTS

[Table 10.45, “fabric:require-profile-set Arguments”](#) describes the command's arguments.

Table 10.45. fabric:require-profile-set Arguments

TABLE 20.10. fabric:require-profile-set command arguments

| Argument | Interpretation |
|--------------------|--|
| --help | Displays the online help for this command |
| --minimum | The minimum number of instances of this profile expected to be running in the fabric. |
| --maximum | The maximum number of instances of this profile expected to be running in the fabric. |
| --dependsOn | The profile IDs that must be provisioned before this profile. To specify multiple profile IDs, specify this flag multiple times on the command line—for example, -dependsOn foo --dependsOn bar . |
| <i>Profile</i> | A profile ID. |

NAME

fabric:status – displays the current status of the fabric, based on the configured profile requirements

SYNOPSIS

```
fabric:status [
    --help
]
```

DESCRIPTION

This command summarizes the health of the fabric, based on requirements previously configured by the `fabric:require-profile-set` command. For example, if you configured the `example-camel` profile to require a minimum of two instances and a maximum of four instances, and there is currently only one instance running, the `example-camel` profile would get a health rating of 50%.

The `fabric:status` command produces output like the following:

```
karaf@root> fabric:status
[profile]           [instances]   [health]
cloud               1             100%
example-camel       0             0%
example-cxf         0             0%
fabric              1             100%
fabric-ensemble-0000-1 1             100%
```

ARGUMENTS

Table 10.46, “fabric:status Arguments” describes the command's arguments.

Table 10.46. fabric:status Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

RELATED TOPICS

For more details, see:

- [fabric:require-profile-set](#)
- [fabric:require-profile-list](#)
- [fabric:require-profile-delete](#)

NAME

`fabric:version-create` – create a new version

SYNOPSIS

```

fabric:version-create [
  --help
] [
  --parent parentVersion
] {
  Version
}

```

DESCRIPTION

Create a new version, by default copying all of the profiles *from the current latest version* into the new version. You can specify which version to copy the profiles from using the `--parent` option. If no version is specified, the command creates a new minor version by default. For example:

```

karaf@root> fabric:version-list
[version]      [default] [# containers]
1.0            true      1
karaf@root> fabric:version-create
Created version: 1.1 as copy of: 1.0
karaf@root> fabric:version-list
[version]      [default] [# containers]
1.0            true      1
1.1            false     0

```

ARGUMENTS

[Table 10.47, “fabric:version-create Arguments”](#) describes the command's arguments.

Table 10.47. fabric:version-create Arguments

| Argument | Interpretation |
|------------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>--default</code> | Set the created version to be the new default version. |
| <code>--parent</code> | The parent version. By default, use the latest version as the parent. |
| <i>Version</i> | The new version to create. If not specified, defaults to the next minor version. |

NAME

`fabric:version-delete` – delete the specified version

SYNOPSIS

```

fabric:version-delete [
  --help
] {
  Version
}

```

DESCRIPTION

Delete the specified version.

**WARNING**

This command also deletes all of the profile data associated with the deleted version.

ARGUMENTS

Table 10.48, “[fabric:version-delete Arguments](#)” describes the command's arguments.

Table 10.48. `fabric:version-delete` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>Version</i> | <i>(Required)</i> The version to delete. |

NAME

`fabric:version-list` – lists the existing versions

SYNOPSIS

```
fabric:version-list [
  --help
]
```

DESCRIPTION

For example:

```
karaf@root> fabric:version-list
[version]      [default] [# containers]
1.0            true      1
1.1            false     0
```

ARGUMENTS

Table 10.49, “[fabric:version-list Arguments](#)” describes the command's arguments.

Table 10.49. fabric:version-list Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`fabric:version-set-default` – set the new default version (must be one of the existing versions)

SYNOPSIS

```
fabric:version-set-default [
    --help
] {
    Version
}
```

DESCRIPTION

Many of the fabric console commands work with a default version. For example, when you create a new profile with `fabric:profile-create`, the new profile is created in the default version by default. The `fabric:version-set-default` changes the default version that is used by these commands.

ARGUMENTS

[Table 10.50, “fabric:version-set-default Arguments”](#) describes the command's arguments.

Table 10.50. fabric:version-set-default Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>Version</i> | <i>(Required)</i> Version number to use as the new default version. |

CHAPTER 11. FEATURES CONSOLE COMMANDS

The features commands allow you to provision entire applications using the Apache Karaf features facility. Features allow you to provision a collection of bundles using a single name.

Type `features:` then press `Tab` at the `karaf>` prompt to view the available commands.

NAME

`features:addurl`, `addurl` – registers one or more URLs to feature repositories with the container

SYNOPSIS

```
features:addurl [
  --help
] [[
  -i
] | [
  --install-all
]] {
  urls
}
```

DESCRIPTION

Each feature repository defines one or more features, and each feature is made up of a collection of bundles that work together to provide some functionality. When a feature is loaded, the container loads any required bundles that are not already present into the container and activates them.

ARGUMENTS

[Table 11.1, “features:addurl Arguments”](#) describes the command's arguments.

Table 11.1. features:addurl Arguments

| Argument | Interpretation |
|--|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-i</code> , <code>--install-all</code> | Install all of the features in the specified feature repository URLs. |

| Argument | Interpretation |
|-------------|---|
| <i>urls</i> | One or more repository URLs separated by whitespaces. |

NAME

`features:chooseurl`, `chooseurl` – registers the feature repository URL for a well known project

SYNOPSIS

```
features:chooseurl [
  --help
] {
  project
} {
  version
}
```

DESCRIPTION

uses a number of features implemented by well-known projects. To simplify the process of adding their feature repositories, the `chooseurl` command allows you to add a feature repository without knowing its Maven URL. The list of projects supported by `chooseurl` is configured by the `org.apache.karaf.features.repos` PID.

ARGUMENTS

[Table 11.2, “features:chooseurl Arguments”](#) describes the command's arguments.

Table 11.2. features:chooseurl Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>feature</i> | Specifies the project name for the feature repository to add. |
| <i>version</i> | Specifies the version of the project's feature repository to add. |

NAME

`features:info` – show information about the specified feature with the optionally specified version

SYNOPSIS

```
features:info [
  --help
] [[
  -c
] | [
  --configuration
]] [[
  -b
] | [
  --bundle
]] [[
  -t
] | [
  --tree
]] [[
  -d
] | [
  --dependency
]] {
  featureName
} {
  version
}
```

ARGUMENTS

[Table 11.3, “features:info Arguments”](#) describes the command's arguments.

Table 11.3. `features:info` Arguments

| Argument | Interpretation |
|----------------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-c, --configuration</code> | Display configuration information. |
| <code>-b, --bundle</code> | Display bundle information. |
| <code>-t, --tree</code> | Display feature tree. |
| <code>-d, --dependency</code> | Display dependency information. |
| <i>command</i> | |

NAME

features:install – installs a feature

SYNOPSIS

```
features:install [
  --help
] {
  name
} [
  version
]
```

ARGUMENTS

[Table 11.4, “features:install Arguments”](#) describes the command's arguments.

Table 11.4. features:install Arguments

| Argument | Interpretation |
|----------------|---|
| --help | Displays the online help for this command |
| <i>name</i> | The name of the feature to install |
| <i>version</i> | The version of the feature |

NAME

features:list – Lists all existing features available from the defined repositories

SYNOPSIS

```
features:list [
  --help
] [[
  -i
] | [
  --installed
]]
```

ARGUMENTS

[Table 11.5, “features:list Arguments”](#) describes the command's arguments.

Table 11.5. `features:list` Arguments

| Argument | Interpretation |
|------------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-i, --installed</code> | Displays the list of all installed features |

NAME

`features:listurl` – lists the features repository URLs

SYNOPSIS

```
features:listurl [
  --help
] [[
  -v
] | [
  --validate
]] [[
  -vo
] | [
  --verbose
]]
```

ARGUMENTS

[Table 11.6, “features:listurl Arguments”](#) describes the command's arguments.

Table 11.6. `features:listurl` Arguments

| Argument | Interpretation |
|-----------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-v, --validate</code> | Validate current version of descriptors. |
| <code>-vo, --verbose</code> | Shows validation output. |

NAME

`features:listVersions`, `listVersions` – lists all versions of a feature available from the current feature repositories

SYNOPSIS

```
features:listVersions [
  --help
] {
  feature
}
```

ARGUMENTS

[Table 11.7, “features:listVersions Arguments”](#) describes the command's arguments.

Table 11.7. features:listVersions Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>feature</i> | Name of a feature. |

NAME

`features:refreshUrl` – reloads the list of available features from the repositories

SYNOPSIS

```
features:refreshUrl [
  --help
] {
  urls
}
```

ARGUMENTS

[Table 11.8, “features:refreshUrl Arguments”](#) describes the command's arguments.

Table 11.8. features:refreshUrl Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

| Argument | Interpretation |
|-------------|--|
| <i>urls</i> | The repository URLs to reload (leave empty for all). |

NAME

features:removeUrl – removes the specified list of repository URLs from the features service

SYNOPSIS

```
features:removeUrl [
  --help
] {
  urls
}
```

ARGUMENTS

[Table 11.9, “features:removeUrl Arguments”](#) describes the command's arguments.

Table 11.9. features:removeUrl Arguments

| Argument | Interpretation |
|----------------------|--|
| --help | Displays the online help for this command |
| -n,--interval | |
| <i>urls</i> | One or more repository URLs separated by whitespace. |

NAME

features:removeRepository – removes the specified repository from the features service

SYNOPSIS

```
features:removeRepository [
  --help
] {
  repository
}
```

ARGUMENTS

[Table 11.10, “features:removeRepository Arguments”](#) describes the command's arguments.

Table 11.10. features:removeRepository Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>repository</i> | The name of a features repository. |

NAME

`features:uninstall` – uninstalls a feature with the specified name and version

SYNOPSIS

```
features:uninstall [
  --help
] {
  features
}
```

ARGUMENTS

[Table 11.11, “features:uninstall Arguments”](#) describes the command's arguments.

Table 11.11. features:uninstall Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>features</i> | A space-separated list of features to uninstall, where each feature is specified in the format <i>feature[/version]</i> (that is, the version is optional). |

CHAPTER 12. JAAS CONSOLE COMMANDS

The `jaas` commands are used for editing JAAS realm and user data. Editing a JAAS realm is done in two stages. The changes are placed in a queue until they are applied by executing the `jaas:update`.

When editing JAAS settings the commands are used as follows:

1. Start the editing session.

```
jaas:manage
```

2. Edit the realm's user data.

- `jass:users`

Lists all of the users.

- `jass:useradd`

Add a new user.

- `jass:userdel`

Delete a user.

- **jass:roleadd**

Add a new role to a user.

- **jass:roledel**

Delete a role from a user.

- **jass:pending**

Lists all of the pending changes that have been made to the realms, but have not been applied to the container.

3. **Apply the changes to the JAAS realm and ends the editing session.**

jaas:update

You can abandon an editing session using `jaas:cancel` before the changes applied to the JAAS settings.

Type `jaas:` then press `Tab` at the prompt to view the available commands.

NAME

`jaas:cancel`, `cancel` – cancels a JAAS editing session without applying the pending changes

SYNOPSIS

```
jaas:cancel [
    --help
]
```

DETAILS

When editing a JAAS realm, the changes are buffered until the editing session is closed. The `jaas:cancel` command clears the buffer without saving the changes and closes the editing session.

You can see a list of the buffered changes using the `jaas:pending` command.

ARGUMENTS

[Table 12.1, “jaas:cancel Arguments”](#) describes the command's arguments.

Table 12.1. `jaas:cancel` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`jaas:manage`, `manage` – opens a JAAS realm for editing

SYNOPSIS

```
jaas:manage [
    --help
] {[
    --realm realm
] | [
    --index index
]} [
    --module module
```

```

] [
  --force
]

```

DETAILS

The `jaas:manage` command is the first step in editing a JAAS realm. It opens the realm so that calls to the `jaas:*` editing commands will update the selected realm. The edits made by the `jaas:*` editing commands are placed in a buffer associated with the selected realm and not written to the realm until the editing session is ended by the `jaas:update` command.

If you use the `jaas:manage` command before saving the changes to a realm that is open for editing, the changes to the previously open realm are abandoned. The pending edits for the previous realm are cleared without being saved.

While editing a realm you can get a list of the pending changes using the `jaas:pending` command.

ARGUMENTS

[Table 12.2, “jaas:manage Arguments”](#) describes the command's arguments.

Table 12.2. `jaas:manage` Arguments

| Argument | Interpretation |
|-----------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>--realm</code> | Select the realm to edit by specifying its realm name. |
| <code>--index</code> | Select the realm to edit by specifying its index. |
| <code>--module</code> | Specify which of the realm's login modules are to be edited. |
| <code>--force</code> | Force the switch to the specified realm. If a different realm was already opened for editing its changes are abandoned without being applied. |

EXAMPLES

You can select the realm to manage *either* by specifying its realm name *or* by specifying its index.

If the installed realm names are all distinct (which you can check using `jaas:realms`), you can identify the realm to manage by specifying the `--realm` option. For example, if the container is a standalone instance (no fabric installed), you can start to edit the karaf realm as follows:

```
jaas:manage --realm karaf
```

If the container belongs to a fabric, however, the `fabric-jaas` feature automatically installs another realm named `karaf` at a higher priority, so that it overrides the default `karaf` realm. For example, in a fabric, the `jaas:realms` command returns a list similar to the following:

```
Index Realm Module Class 1 karaf
org.apache.karaf.jaas.modules.properties.PropertiesLoginModule 2 karaf
io.fabric8.jaas.ZookeeperLoginModule
```

In this case, you must identify the realm to manage using the `--index` option, specifying one of the index values from the list. The current active `karaf` realm is the `ZookeeperLoginModule`, which is selected by the index value, `2`, as follows:

```
jaas:manage --index 2
```

NAME

`jaas:pending`, `pending` – lists the changes waiting to be applied to the realm being edited

SYNOPSIS

```
jaas:pending [
    --help
]
```

DETAILS

When editing a JAAS realm, the changes are stored in a buffer until the editing session is closed. The `jaas:pending` command shows a list of the changes buffered during the currently open editing session.

The `jaas:update` command saves the changes and closes the editing session.

The `jaas:cancel` command clears the buffer without saving the changes and

closes the editing session.

ARGUMENTS

Table 12.3, “[jaas:pending Arguments](#)” describes the command's arguments.

Table 12.3. `jaas:pending` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |

NAME

`jaas:realms, realms` – lists the JAAS realms know to the container

SYNOPSIS

```
jaas:realms [
    --help
]
```

ARGUMENTS

Table 12.4, “[jaas:realms Arguments](#)” describes the command's arguments.

Table 12.4. `jaas:realms` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |

NAME

`jaas:roleadd, roleadd` – adds a role to a user

SYNOPSIS

```
jaas:roleadd [
    --help
] {
    username
} {
    role
}
```

DETAILS

When editing a JAAS realm, the changes are buffered until the editing session is closed. When you add a new role using the `jaas:roleadd` command, the change is stored in the buffer and does not take effect until the editing session is closed.

The `jaas:update` command saves the changes and closes the editing session.

The `jaas:cancel` command clears the buffer without saving the changes and closes the editing session.

ARGUMENTS

[Table 12.5, “jaas:roleadd Arguments”](#) describes the command's arguments.

Table 12.5. `jaas:roleadd` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |
| <i>username</i> | Specifies the name of the user to modify. |
| <i>role</i> | Specifies the role which is appended to the user data. |

NAME

`jaas:roledel`, `roledel` – deletes a role from a user

SYNOPSIS

```
jaas:roledel [
  --help
] {
  username
} {
  role
}
```

DETAILS

When editing a JAAS realm, the changes are buffered until the editing session is closed. When you delete a role using the `jaas:roledel` command, the

change is stored in the buffer and does not take effect until the editing session is closed.

The `jaas:update` command saves the changes and closes the editing session.

The `jaas:cancel` command clears the buffer without saving the changes and closes the editing session.

ARGUMENTS

Table 12.6, “[jaas:roledel Arguments](#)” describes the command's arguments.

Table 12.6. `jaas:roledel` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <i>username</i> | Specifies the name of the user to modify. |
| <i>role</i> | Specifies the role which is removed from the user data. |

NAME

`jaas:update` – applies all pending changes to the JAAS realm and closes the editing session

SYNOPSIS

```
jaas:update [
    --help
]
```

DETAILS

When editing a JAAS realm, the changes are buffered until the editing session is closed. The `jaas:update` command saves the buffered changes to the realm and closes the editing session.

You can see a list of the buffered changes using the `jaas:pending` command.

ARGUMENTS

Table 12.7, “jaas:update Arguments” describes the command's arguments.

Table 12.7. jaas:update Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |

NAME

`jaas:useradd`, `useradd` – adds a user to the JAAS realm being edited

SYNOPSIS

```
jaas:useradd [
    --help
] {
    username
} {
    password
}
```

DETAILS

When editing a JAAS realm, the changes are buffered until the editing session is closed. When you add a new user using the `jaas:useradd` command, the change is stored in the buffer and does not take effect until the editing session is closed.

The `jaas:update` command saves the changes and closes the editing session.

The `jaas:cancel` command clears the buffer without saving the changes and closes the editing session.

ARGUMENTS

Table 12.8, “jaas:useradd Arguments” describes the command's arguments.

Table 12.8. jaas:useradd Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |

| Argument | Interpretation |
|-----------------|---|
| <i>username</i> | Specifies the name of the user to add. |
| <i>password</i> | Specifies the password used to authenticate the user. |

NAME

jaas:userdel, userdel – deletes a user from the JAAS realm being edited

SYNOPSIS

```
jaas:userdel [
  --help
] {
  username
}
```

DETAILS

When editing a JAAS realm, the changes are buffered until the editing session is closed. When you delete a user using the `jaas:useradd` command, the change is stored in the buffer and does not take effect until the editing session is closed.

The `jaas:update` command saves the changes and closes the editing session.

The `jaas:cancel` command clears the buffer without saving the changes and closes the editing session.

ARGUMENTS

[Table 12.9, “jaas:userdel Arguments”](#) describes the command's arguments.

Table 12.9. jaas:userdel Arguments

| Argument | Interpretation |
|-----------------|--|
| --help | Displays the online help for this command. |
| <i>username</i> | Specifies the name of the user to add. |

NAME

`jaas:users, users` – lists the users in the JAAS realm being edited

SYNOPSIS

```
jaas:users [
    --help
]
```

ARGUMENTS

[Table 12.10, “jaas:users Arguments”](#) describes the command's arguments.

Table 12.10. `jaas:users Arguments`

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |

CHAPTER 13. JBI CONSOLE COMMANDS

The `jbi` commands allow you to manage JBI artifacts that are deployed in the Red Hat JBoss Fuse runtime. For information about working with JBI artifacts in JBoss Fuse, see "[JBI Development Guide](#)".

Type `jbi:` then press Tab at the `JBossFuse:karaf@root>` prompt to view the available commands.

NAME

`jbi:list` – lists JBI endpoints

SYNOPSIS

```
jbi:list [
  --help
]
```

ARGUMENTS

This command takes the following arguments.

Table 13.1. `jbi:list` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`jbi:shutdown` – shuts down a JBI artifact

SYNOPSIS

```
jbi:shutdown [
  --help
] [[
  -a
] | [
  --service-assembly
] serviceAssembly] [[
  -c
] | [
  --component
] component] [
```

```

    --force
  ] {
    VAL
  }

```

ARGUMENTS

This command takes the following arguments.

Table 13.2. `jbi:shutdown` Arguments

| Argument | Interpretation |
|-------------------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-a, --service-assembly</code> | Specifies a service assembly |
| <code>-c, --component</code> | Specifies a component |
| <code>--force</code> | Forces a shutdown of the specified JBI artifact |
| <code>VAL</code> | The name of the JBI artifact |

NAME

`jbi:start` – starts a JBI artifact

SYNOPSIS

```

jbi:start [
  --help
] [[
  -a
] | [
  --service-assembly
] serviceAssembly] [[
  -c
] | [
  --component
] component] {
  VAL
}

```

ARGUMENTS

This command takes the following arguments.

Table 13.3. `jbi:start` Arguments

| Argument | Interpretation |
|-------------------------------|---|
| --help | Displays the online help for this command |
| -a, --service-assembly | Specifies a service assembly |
| -c, --component | Specifies a component |
| VAL | The name of the JBI artifact |

NAME

jbi:stop – stops a JBI artifact

SYNOPSIS

```
jbi:stop [
  --help
] [[
  -a
] | [
  --service-assembly
] serviceAssembly] [[
  -c
] | [
  --component
] component] {
  VAL
}
```

ARGUMENTS

This command takes the following arguments.

Table 13.4. jbi:stop Arguments

| Argument | Interpretation |
|-------------------------------|---|
| --help | Displays the online help for this command |
| -a, --service-assembly | A service assembly |
| -c, --component | A component |
| VAL | The name of the JBI artifact |

CHAPTER 14. LOG CONSOLE COMMANDS

The log commands allow you to display and change log levels.

Type `log:` then press `Tab` at the prompt to view the available commands.

NAME

`log:clear` – clears the log

SYNOPSIS

```
log:clear [
    --help
]
```

ARGUMENTS

[Table 14.1, “log:clear Arguments”](#) describes the command's arguments.

Table 14.1. `log:clear` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`log:display`, `display`, `ld` – displays log entries

SYNOPSIS

```
log:display [
    --help
] [
    -p pattern
] [
    -n numLines
] [
    --no-color
]
```

ARGUMENTS

[Table 14.2, “log:display Arguments”](#) describes the command's arguments.

Table 14.2. log:display Arguments

| Argument | Interpretation |
|-------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-p</code> | The pattern for formatting the output |
| <code>-n</code> | The number of entries to display |
| <code>--no-color</code> | Do not use syntax highlighting when displaying the log. |

NAME

`log:display-exception`, `display-exception`, `lde` – displays the last thrown exception from the log

SYNOPSIS

```
log:display-exception [
    --help
]
```

ARGUMENTS

[Table 14.3, “log:display-exception Arguments”](#) describes the command's arguments.

Table 14.3. log:display-exception Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`log:get`, `get` – shows the log level

SYNOPSIS

```
log:get [
    --help
] {
    logger
}
```


ARGUMENTS

Table 14.4, “log:get Arguments” describes the command's arguments.

Table 14.4. log:get Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>logger</code> | Specifies the logger name, ALL , or ROOT . The default is ROOT . |

NAME

`log:set, set` – sets the log level

SYNOPSIS

```
log:set [
  --help
] { [
  DEFAULT
] | [
  TRACE
] | [
  DEBUG
] | [
  INFO
] | [
  WARN
] | [
  ERROR
]} {
  logger
}
```

ARGUMENTS

Table 14.5, “log:set Arguments” describes the command's arguments.

Table 14.5. log:set Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

| Argument | Interpretation |
|---------------|---|
| level | Specifies the logging level. |
| logger | Specifies the logger name. The default is ROOT . |

NAME

log:tail – continually displays log entries

SYNOPSIS

```
log:tail [
  --help
] [
  -p pattern
] [
  -n numLines
] [
  --no-color
]
```

ARGUMENTS

[Table 14.6, “log:tail Arguments”](#) describes the command's arguments.

Table 14.6. log:tail Arguments

| Argument | Interpretation |
|-------------------|---|
| --help | Displays the online help for this command |
| -p | The pattern for formatting the output |
| -n | The number of entries to display |
| --no-color | Do not use syntax highlighting when displaying the log. |

CHAPTER 15. THE NMR:LIST COMMAND

The `nmr:listcommand` allows you to list normalized message router (NMR) endpoints. The NMR enables the interaction between different components in the OSGi container. The main purpose of the NMR is to mediate between service consumers and service providers.

NAME

`nmr:list` – lists NMR endpoints

SYNOPSIS

```
nmr:list [
    --help
]
```

ARGUMENTS

This command takes the following arguments.

Table 15.1. `nmr:list` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

CHAPTER 16. OBR CONSOLE COMMANDS

The `obr` commands allow you to access the OSGi Bundle Repository (OBR) Service API.

**NOTE**

This feature is not installed by default. To install the `obr` shell, run the following command:

```
JBossFuse:karaf@root:> features:install obr
```

Type `obr:` then press `Tab` at the `JBossFuse:karaf@root>` prompt to view the available commands.

NAME

`obr:addUrl` – adds a list of repository URLs to the OBR service

SYNOPSIS

```
obr:addUrl [
  --help
] {
  urls
}
```

ARGUMENTS

This command takes the following arguments.

Table 16.1. `obr:addUrl` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>urls</code> | The repository URLs to add to the OBR service, separated by whitespaces |

NAME

obr:deploy – deploys a list of bundles using the OBR service

SYNOPSIS

```
obr:deploy [
  --help
] {
  bundles
}
```

ARGUMENTS

This command takes the following arguments.

Table 16.2. obr:deploy Arguments

| Argument | Interpretation |
|----------------|--|
| --help | Displays the online help for this command |
| <i>bundles</i> | A list of bundle names to deploy, separated by whitespaces |

NAME

obr:info – prints information about OBR bundles

SYNOPSIS

```
obr:info [
  --help
] {
  bundles
}
```

ARGUMENTS

This command takes the following arguments.

Table 16.3. obr:info Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |

| Argument | Interpretation |
|----------------|--|
| <i>bundles</i> | Specifies the bundles to query for information, separated by whitespaces |

NAME

obr:list – lists OBR bundles

SYNOPSIS

```
obr:list [
  --help
] {
  args
}
```

ARGUMENTS

This command takes the following arguments.

Table 16.4. obr:list Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |
| <i>args</i> | The arguments |

NAME

obr:listUrl – displays the repository URLs currently associated with the OBR service

SYNOPSIS

```
obr:listUrl [
  --help
]
```

ARGUMENTS

This command takes the following arguments.

Table 16.5. obr:listUrl Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

NAME

`obr:refreshUrl` – reloads the repositories to obtain a fresh list of bundles

SYNOPSIS

```
obr:refreshUrl [
  --help
] {
  urls
}
```

ARGUMENTS

This command takes the following arguments.

Table 16.6. `obr:refreshUrl` Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>urls</code> | The repository URLs to refresh (leave empty for all) |

NAME

`obr:removeUrl` – removes a list of repository URLs from the OBR service

SYNOPSIS

```
obr:removeUrl [
  --help
] {
  urls
}
```

ARGUMENTS

This command takes the following arguments.

Table 16.7. `obr:removeUrl` Arguments

| Argument | Interpretation |
|---------------|---|
| --help | Displays the online help for this command |
| <i>urls</i> | The repository URLs to remove from the OBR service, separated by whitespace |

NAME

obr:source – downloads the sources for an OBR bundle

SYNOPSIS

```
obr:source [
  --help
] [
  -x
] {
  folder
} {
  bundles
}
```

ARGUMENTS

This command takes the following arguments.

Table 16.8. obr:source Arguments

| Argument | Interpretation |
|----------------|---|
| --help | Displays the online help for this command |
| -x | Extracts the archive |
| <i>folder</i> | The local directory or folder for storing sources |
| <i>bundles</i> | A list of bundles to download the sources for |

NAME

obr:start – deploys and starts a list of bundles using OBR

SYNOPSIS

```
obr:start [
```



```
--help  
] {  
  bundles  
}
```

ARGUMENTS

This command takes the following arguments.

Table 16.9. obr:start Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <i>bundles</i> | List of bundle names to deploy, separated by whitespaces |

CHAPTER 17. OSGI CONSOLE COMMANDS

The `osgi` commands provide for managing the OSGi runtime. It includes commands for listing OSGi bundles and services and managing bundle lifecycles.

Type `osgi`: then press `Tab` at the prompt to view the available commands.

NAME

`osgi:bundle-level`, `bundle-level` – gets or sets the start level of a given bundle

SYNOPSIS

```
osgi:bundle-level [
  --help
] [
  --force
] {
  id
} [
  startLevel
]
```

ARGUMENTS

[Table 17.1, “osgi:bundle-level Arguments”](#) describes the command's arguments.

Table 17.1. `osgi:bundle-level` Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>--force</code> | Forces the command to execute. |
| <i>id</i> | Specifies the id for the bundle. |
| <i>startLevel</i> | Specifies the new start level for the bundle. |

NAME

osgi:bundle-services, bundle-services – lists the OSGi services provided by a bundle

SYNOPSIS

```
osgi:bundle-level [
    -u
  ] [
    -p
  ] [
    -a
  ] [
    --help
  ] [
    --force
  ] {
    id
  }
```

ARGUMENTS

[Table 17.2, “osgi:bundle-services Arguments”](#) describes the command's arguments.

Table 17.2. osgi:bundle-services Arguments

| Argument | Interpretation |
|----------------|--|
| -u | Displays the services used by the bundle. |
| -p | Displays the properties for each service. |
| -a | Displays all of the services provided by the bundle including the Apache Karaf commands which are hidden by default. |
| --help | Displays the online help for this command. |
| --force | Forces the command to execute. |
| id | Specifies the id for the bundle. |

NAME

osgi:classes, classes – lists all of the classes in the specified bundle or bundles

SYNOPSIS

```

osgi:classes [
  --help
] [
  --force
] [[
  -a
] | [
  --display-all-files
]] {
  ids
}

```

ARGUMENTS

[Table 17.3, “osgi:classes Arguments”](#) describes the command's arguments.

Table 17.3. osgi:classes Arguments

| Argument | Interpretation |
|--------------------------------------|--|
| <code>--help</code> | Displays the online help for this command. |
| <code>--force</code> | Forces the command to execute. |
| <code>-a, --display-all-files</code> | Also lists the files contained in the bundles. |
| <code>ids</code> | Space-separated list of bundle IDs. |

NAME

`osgi:find-class, find-class` – locates a specified class in any deployed bundle

SYNOPSIS

```

osgi:find-class [
  --help
] {
  className
}

```

ARGUMENTS

[Table 17.4, “osgi:find-class Arguments”](#) describes the command's arguments.

Table 17.4. osgi:find-class Arguments

| Argument | Interpretation |
|------------------------|--|
| <code>--help</code> | Displays the online help for this command. |
| <code>className</code> | Class name or partial class name to find. |

NAME

`osgi:headers, headers` – displays the headers of a specified OSGi bundle

SYNOPSIS

```
osgi:headers [
  --help
] {
  id
  ...}
```

ARGUMENTS

[Table 17.5, “osgi:headers Arguments”](#) describes the command's arguments.

Table 17.5. osgi:headers Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>id</code> | Specifies a space delimited list of bundle IDs. |

NAME

`osgi:info` – displays detailed information about OSGi bundles

SYNOPSIS

```
osgi:info [
  --help
] {
  id
  ...}
```

ARGUMENTS

[Table 17.6, “osgi:info Arguments”](#) describes the command's arguments.

Table 17.6. `osgi:info` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>id</i> | Specifies a space delimited list of bundle IDs. |

NAME

`osgi:install`, `install` – installs one or more OSGi bundles

SYNOPSIS

```
osgi:install [
  --help
] [[
  -s
] | [
  --start
]] {
  url
  ...}
```

ARGUMENTS

[Table 17.7, “osgi:install Arguments”](#) describes the command's arguments.

Table 17.7. `osgi:install` Arguments

| Argument | Interpretation |
|--------------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>-s, --start</code> | Starts the bundles after installation |
| <i>url</i> | Specifies a space delimited list of bundle URLs. |

NAME

`osgi:list`, `list` – lists the installed bundles whose start level equals or exceeds the specified threshold

SYNOPSIS

```
osgi:list [
  --help
```

```

] [
  -u
] [
  -t threshold
] [
  -l
] [
  -s
]

```

ARGUMENTS

Table 17.8, “`osgi:list Arguments`” describes the command's arguments.

Table 17.8. `osgi:list Arguments`

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-u</code> | Shows the update locations |
| <code>-t</code> | Specifies the start level threshold. The default is the value of the <code>karaf.systemBundlesStartLevel</code> property whose default value is 50. |
| <code>-l</code> | Shows the locations of the bundles |
| <code>-s</code> | Shows the symbolic names of the bundles |

NAME

`osgi:ls`, `ls` – lists OSGi services

SYNOPSIS

```

osgi:ls [
  --help
] [
  -a
] [
  -u
] [
  --force
] [
  id
  ...]

```

ARGUMENTS

[Table 17.9, “osgi:ls Arguments”](#) describes the command's arguments.

Table 17.9. osgi:ls Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-a</code> | Lists all services |
| <code>-u</code> | Lists the services in use |
| <code>--force</code> | Forces the command to execute |
| <i>id</i> | Specifies a space separated list of bundle IDs. |

NAME

`osgi:refresh`, `refresh` – refreshes an OSGi bundle

SYNOPSIS

```
osgi:refresh [
  --help
] [
  --force
] {
  id
  ...}
```

ARGUMENTS

[Table 17.10, “osgi:refresh Arguments”](#) describes the command's arguments.

Table 17.10. osgi:refresh Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>--force</code> | Forces the command to execute. |
| <i>id</i> | Specifies a space delimited list of bundle IDs. |

NAME

osgi:resolve, resolve – resolves an OSGi bundle's dependencies

SYNOPSIS

```
osgi:resolve [
  --help
] [
  --force
] {
  id
...}
```

ARGUMENTS

[Table 17.11, “osgi:resolve Arguments”](#) describes the command's arguments.

Table 17.11. osgi:resolve Arguments

| Argument | Interpretation |
|----------------|---|
| --help | Displays the online help for this command. |
| --force | Forces the command to execute. |
| id | Specifies a space delimited list of bundle IDs. |

NAME

osgi:restart, restart – stops and restarts an OSGi bundle

SYNOPSIS

```
osgi:restart [
  --help
] [
  --force
] {
  id
...}
```

ARGUMENTS

[Table 17.12, “osgi:restart Arguments”](#) describes the command's arguments.

Table 17.12. `osgi:restart` Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>--force</code> | Forces the command to execute. |
| <i>id</i> | Specifies a space delimited list of bundle IDs. |

NAME

`osgi:shutdown`, `shutdown` – stops the OSGi framework

SYNOPSIS

```
osgi:shutdown [
  --help
] [[
  -f
] | [
  --force
]] [[
  hh:mm
] | [
  +m
]]
```

ARGUMENTS

[Table 17.13, “osgi:shutdown Arguments”](#) describes the command's arguments.

Table 17.13. `osgi:shutdown` Arguments

| Argument | Interpretation |
|--|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>-f</code> , <code>--force</code> | Forces the command to execute. |
| <i>hh:mm</i> | Specifies the time to shut down the broker in hours and minutes. The time is specified in 24 hour time. For example, 13:30 specifies that the container will shutdown at 1:30pm. |

| Argument | Interpretation |
|-----------|--|
| +m | Specifies the time, in minutes, to pause before shutting down the OSGi framework. For example, +30 specifies that the container will wait thirty minutes before shutting down the OSGi framework. |

NAME

osgi:start, start – starts an OSGi bundle

SYNOPSIS

```
osgi:start [
    --help
] [
    --force
] {
    id
...}
```

ARGUMENTS

[Table 17.14, “osgi:start Arguments”](#) describes the command's arguments.

Table 17.14. osgi:start Arguments

| Argument | Interpretation |
|----------------|---|
| --help | Displays the online help for this command. |
| --force | Forces the command to execute. |
| id | Specifies a space delimited list of bundle IDs. |

NAME

osgi:start-level, start-level – gets or sets the OSGi framework's active start level

SYNOPSIS

```
osgi:start [
    --help
] [
```

```

    level
]

```

ARGUMENTS

[Table 17.15, “osgi:start-level Arguments”](#) describes the command's arguments.

Table 17.15. osgi:start-level Arguments

| Argument | Interpretation |
|---------------------|--|
| <code>--help</code> | Displays the online help for this command. |
| <i>level</i> | Specifies the new start level to set. |

NAME

`osgi:stop`, `stop` – stops an OSGi bundle

SYNOPSIS

```

osgi:stop [
    --help
] [
    --force
] {
    id
...}

```

ARGUMENTS

[Table 17.16, “osgi:stop Arguments”](#) describes the command's arguments.

Table 17.16. osgi:stop Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>--force</code> | Forces the command to execute. |
| <i>id</i> | Specifies a space delimited list of bundle IDs. |

NAME

osgi:uninstall, uninstall – uninstalls an OSGi bundle

SYNOPSIS

```
osgi:uninstall [
  --help
] [
  --force
] {
  id
...}
```

ARGUMENTS

[Table 17.17, “osgi:uninstall Arguments”](#) describes the command's arguments.

Table 17.17. osgi:uninstall Arguments

| Argument | Interpretation |
|----------------|---|
| --help | Displays the online help for this command. |
| --force | Forces the command to execute. |
| <i>id</i> | Specifies a space delimited list of bundle IDs. |

NAME

osgi:update, update – updates an OSGi bundle

SYNOPSIS

```
osgi:update [
  --help
] [
  --force
] {
  id
} [
  location
]
```

ARGUMENTS

[Table 17.18, “osgi:update Arguments”](#) describes the command's arguments.

Table 17.18. `osgi:update` Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>--force</code> | Forces the command to execute. |
| <i>id</i> | Specifies ID of the bundle. |
| <i>location</i> | Specifies the location from which the update is loaded. If no location is specified the container will use either the bundle's <code>Bundle-UpdateLocation</code> property or the bundle's original location. |

CHAPTER 18. PACKAGES CONSOLE COMMANDS

The `packages` commands are used for showing all packages imported and exported by the OSGi bundles currently installed.

Type `packages:` then press Tab at the prompt to view the available commands.

NAME

`packages:exports`, `exports` – displays the packages exported OSGi bundles

SYNOPSIS

```
packages:export [
  --help
] [[
  -d
] | [
  --details
]] [
  -s
] [[
  -i
] | [
  --imports
]] [
  id
  ...]
```

ARGUMENTS

[Table 18.1, “package:exports Arguments”](#) describes the commands arguments.

Table 18.1. package:exports Arguments

| Argument | Interpretation |
|--|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-d</code> , <code>--details</code> | Reformat the output in master/detail layout, which makes it easier to see how related details are grouped together. |

| Argument | Interpretation |
|----------------------|--|
| -s | Show the Symbolic name column, which shows the symbolic name of the bundle to which the exported package belongs. |
| -i, --imports | Show the Imported by column, which lists all of the bundles that import the exported package. |
| <i>id</i> | Specifies a whitespace separated list of bundle IDs to check. |

NAME

packages:imports, imports – displays the packages imported by OSGi bundles

SYNOPSIS

```
packages:imports [
  --help
] [[
  -i
] | [
  --show-importer
]] [
  id
...]
```

ARGUMENTS

[Table 18.2, “package:imports Arguments”](#) describes the commands arguments.

Table 18.2. package:imports Arguments

| Argument | Interpretation |
|----------------------------|---|
| --help | Displays the online help for this command |
| -i, --show-importer | Show the bundle(s) that import a package. |
| <i>id</i> | Specifies a whitespace separated list of bundle IDs to check. |

CHAPTER 19. PATCH CONSOLE COMMANDS

The patch commands allow you to download, install, and manage patches.

Patches contain a discreet set of bundles intended to update a standalone container. Each patch includes the following metadata:

- the patch name
- a description of the patch
- the list of bundles included in the patch

The basic procedure applying a patch is:

1. You receive a notice from customer support that a patch is available.
2. Using the URL provided by customer support, you download the patch using the `patch:add` command.

This command downloads an archive file, unzips the archive, and puts the relevant JAR files under the container's `system/` directory. The patch does *not* overwrite any of the existing JAR files and the patch is not actually installed until you run the `patch:install` command.

3. You install the patch using the `patch:install` command.
4. If you notice that the patch is causing issues, you can remove it using the `patch:rollback` command.

**IMPORTANT**

These commands are *not* suitable for use with containers that are part of a fabric. They are *only* for use in applying patches to standalone containers.

Type `patch:` then press `Tab` at the prompt to view the available commands.

NAME

`patch:add`, download – download a patch file from a remote location and places the relevant JAR files in the container's system directory

SYNOPSIS

```
patch:add [
  --help
] [
  --bundles
] {
  URL
}
```

ARGUMENTS

[Table 19.1, “patch:add Arguments”](#) describes the command's arguments.

Table 19.1. patch:add Arguments

| Argument | Interpretation |
|------------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>--bundles</code> | List the bundles included in the patch. |
| <code>URL</code> | Specifies the URL from which the patch is downloaded. |

NAME

`patch:install` – installs a patch that was previously downloaded

SYNOPSIS

```
patch:install [
  --help
```

```

] {
  patch
}

```

ARGUMENTS

[Table 19.2, “patch:install Arguments”](#) describes the command's arguments.

Table 19.2. patch:install Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>patch</code> | Specifies the name of the patch to install. |

NAME

`patch:list` – lists all known patches, showing the patch name and status (installed or not)

SYNOPSIS

```

patch:list [
  --help
] [
  --bundles
]

```

ARGUMENTS

[Table 19.3, “patch:list Arguments”](#) describes the command's arguments.

Table 19.3. patch:list Arguments

| Argument | Interpretation |
|------------------------|--|
| <code>--help</code> | Displays the online help for this command. |
| <code>--bundles</code> | List the bundles for each patch. |

NAME

`patch:rollback` – reverses a patch installation

SYNOPSIS

```
patch:rollback [
    --help
] {
    patch
}
```

ARGUMENTS

[Table 19.4, “patch:rollback Arguments”](#) describes the command's arguments.

Table 19.4. patch:rollback Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>patch</code> | Specifies the name of the patch to roll back. |

NAME

`patch:simulate`, `simulate` – logs all of the actions that would be performed during a patch install, without actually performing the install

SYNOPSIS

```
patch:simulate [
    --help
] {
    patch
}
```

ARGUMENTS

[Table 19.5, “patch:simulate Arguments”](#) describes the command's arguments.

Table 19.5. patch:simulate Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>patch</code> | Specifies the name of the patch to simulate installing. |

CHAPTER 20. SERVICE COMPONENT RUNTIME (SCR) CONSOLE COMMANDS

The `scr` commands are used for managing components declared using the OSGi Declarative Services specification.

NAME

`scr:activate` – activate the specified SCR component

SYNOPSIS

```
scr:activate [
  --help
] {
  ComponentName
}
```

ARGUMENTS

[Table 20.1, “scr:activate Arguments”](#) describes the command's arguments.

Table 20.1. `scr:activate` Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <i>ComponentName</i> | The SCR component name (which can be found from the listing produced by the <code>scr:list</code> command). |

NAME

`scr:deactivate` – deactivate the specified SCR component

SYNOPSIS

```
scr:deactivate [
  --help
] {
  ComponentName
}
```

ARGUMENTS

[Table 20.2, “scr:deactivate Arguments”](#) describes the command's arguments.

Table 20.2. `scr:deactivate` Arguments

| Argument | Interpretation |
|----------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <i>ComponentName</i> | The SCR component name (which can be found from the listing produced by the <code>scr:list</code> command). |

NAME

`scr:details` – show details for the specified SCR component

SYNOPSIS

```
scr:details [
  --help
] [[
  -s
] | [
  --show-hidden
]] {
  ComponentName
}
```

ARGUMENTS

[Table 20.3, “`scr:details` Arguments”](#) describes the command's arguments.

Table 20.3. `scr:details` Arguments

| Argument | Interpretation |
|--------------------------------|---|
| <code>--help</code> | Displays the online help for this command. |
| <code>-s, --show-hidden</code> | Show all installed components, including the system components (which are hidden by default). |
| <i>ComponentName</i> | The SCR component name (which can be found from the listing produced by the <code>scr:list</code> command). |

NAME

`scr:list` – list all of the components defined using the OSGi Declarative Services framework

SYNOPSIS

```
scr:list [
  --help
] [[
  -s
] | [
  --show-hidden
]]
```

ARGUMENTS

Table 20.4, “scr:list Arguments” describes the command's arguments.

Table 20.4. scr:list Arguments

| Argument | Interpretation |
|--------------------------|---|
| --help | Displays the online help for this command. |
| -s, --show-hidden | Show all installed components, including the system components (which are hidden by default). |

CHAPTER 21. SSH CONSOLE COMMANDS

The `ssh` commands allow you to connect to or create a secure shell (SSH) server.

Type `ssh:` then press `Tab` at the prompt to view the available commands.

NAME

`ssh:ssh`, `ssh` – connects to a remote SSH server

SYNOPSIS

```
ssh:ssh [
  --help
] [[
  -l username
] | [
  --username username
]] [[
  -P password
] | [
  --password password
]] [[
  -p port
] | [
  --port port
]] {
  hostname
} [
  command
]
```

ARGUMENTS

[Table 21.1, “ssh:ssh Arguments”](#) describes the commands arguments.

Table 21.1. ssh:ssh Arguments

| Argument | Interpretation |
|---|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-l</code> , <code>--username</code> | The username for remote login |
| <code>-P</code> , <code>--password</code> | The password for remote login |

| Argument | Interpretation |
|-------------------|---|
| -p, --port | The port to use for the SSH connection |
| <i>hostname</i> | The hostname to connect to via SSH |
| <i>command</i> | Specifies a command to execute upon connecting. |

NAME

ssh:sshd, sshd – creates an SSH server

SYNOPSIS

```
ssh:sshd [
  --help
] [[
  -b
] | [
  --background
]] [[
  -p port
] | [
  --port port
]]
```

ARGUMENTS

[Table 21.2, “ssh:sshd Arguments”](#) describes the commands arguments.

Table 21.2. ssh:sshd Arguments

| Argument | Interpretation |
|-------------------------|--|
| --help | Displays the online help for this command |
| -b, --background | Specifies that the service will run in the background. |
| -p, --port | Specifies the port to setup for the SSH server. The default is 8101 . |

CHAPTER 22. WEB CONSOLE COMMANDS

The `web` command group is used to get information about WARs deployed in the container.

Type `web:` then press `Tab` at the prompt to view the commands in this group.

NAME

`web:list` – lists the WARs deployed in the container

SYNOPSIS

```
web:list [
    --help
]
```

ARGUMENTS

[Table 22.1, “web:list Arguments”](#) describes the command's arguments.

Table 22.1. `web:list` Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |

CHAPTER 23. THE WRAPPER:INSTALL COMMAND

The `wrapper:install` command installs Red Hat JBoss Fuse as a system service.

**NOTE**

This feature is not installed by default. To install the wrapper shell, run the following command:

```
JBossFuse:karaf@root:> features:install wrapper
```

NAME

`wrapper:install` – installs the container as a system service in the operating system

SYNOPSIS

```
wrapper:install [
  --help
] [[
  -s
] | [
  --start-type
] mode] [[
  -n
] | [
  --name
] serviceName] [[
  -d
] | [
  --display
] displayName] [[
  -D
] | [
  --description
] description]
```

ARGUMENTS

This command takes the following arguments.

Table 23.1. `wrapper:install` Arguments

| Argument | Interpretation |
|--------------------------|--|
| --help | Displays the online help for this command |
| -s, --start-type | The mode in which the service is installed, either AUTO_START or DEMAND_START ; the default is AUTO_START |
| -n, --name | The service name used when installing the service; the default is karaf |
| -d, --display | The display name of the service |
| -D, --description | The description of the service |

CHAPTER 24. ZOOKEEPER CONSOLE COMMANDS

By default, the ZooKeeper commands are not installed in a Fabric Container. To make the ZooKeeper commands available, install the `fabric-zookeeper-commands` feature, as follows:

```
features:install fabric-zookeeper-commands
```

NAME

`zk:create` – create a znode

SYNOPSIS

```
zk:create [
  --help
] [
  -r|--recursive
] [
  -i|--import
] [
  -e|--ephemeral
] [
  -s|--sequential
] [
  -a|--acl ListOfACLs
] [
  -o|--overwrite
] {
  path
} {
  data
}
```

DESCRIPTION

Using this command, you can create the following different types of znode:

Persistent

The new znode is permanently stored in the ZooKeeper registry. This is the default.

Persistent sequential

The new znode is permanently stored in the ZooKeeper registry and a 10-digit sequence number is appended to the specified znode name.

Selected by the `--sequential` option.

Ephemeral

The new znode exists only for the duration of the current client session. When the session is over, the znode is removed. Selected by the `-ephemeral` option.

Ephemeral sequential

The new znode exists only for the duration of the current client session and a 10-digit sequence number is appended to the specified znode name. When the session is over, the znode is removed. Selected by combining the `--ephemeral` option with the `--sequential` option.

You can optionally specify a list of ACLs to apply to the newly created znode. The ACL is specified as a comma-separated list, where each entry in the list has the following format:

Scheme:ID:Permissions

ZooKeeper supports the following built-in schemes:

world:anyone

The permissions apply to all users.

auth:

The permissions apply to all authenticated users, irrespective of their identity (the *ID* field is left empty).

digest:MD5Hash

The permissions apply to the user whose username and password generate the specified MD5 hash value, *MD5Hash*.

ip:IPAddress

The permissions apply to the ZooKeeper client with the specified IP address.

The *Permissions* string consists of one or more of the following characters: *r* (read), *w* (write), *c* (create), *d* (delete), and *a* (admin). For example, to create a new znode that explicitly grants all permissions to all users (which is, in fact, the default), you could use a command like the following:

```
karaf@root> zk:create --acl world:anyone:rwcd /path/to/the/new/znode
```



IMPORTANT

To avoid corruption of the fabric registry, you should *not* create any znodes under the `/fabric/` path using the `zk:create` command. These registry nodes should only be created through the fabric console commands—see [Chapter 10, Fabric Console Commands](#).



NOTE

Fuse Fabric does *not* use the ACL security features of ZooKeeper. Currently, all znodes in the fabric registry are created without any ACL restrictions (equivalent to the `world:anyone:rwcd` ACL setting).

ARGUMENTS

[Table 24.1, “zk:create Arguments”](#) describes the commands arguments.

Table 24.1. zk:create Arguments

| Argument | Interpretation |
|------------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-r, --recursive</code> | Automatically create any missing parent nodes in the specified path. |
| <code>-i, --import</code> | Interpret the data argument as a URL that locates a resource containing the initial data for the new znode. |

| Argument | Interpretation |
|-------------------------|--|
| -e, --ephemeral | Make the new znode ephemeral, so that it is automatically deleted after the current ZooKeeper client session closes. |
| -s, --sequential | Make the new znode sequential, which implies that a unique 10-digit suffix is appended to the znode name. |
| -a, --acl | Specifies the znode's ACL as a comma-separated list, where each entry in the list has the format, <i>Scheme:ID:Permissions</i> . The <i>Permissions</i> string consists of the following characters, concatenated in any order: r (read), w (write), c (create), d (delete), and a (admin). |
| -o, --overwrite | Overwrite the existing znode at this location, if there is one. |
| <i>path</i> | <i>(Required)</i> Path of the znode to create. |
| <i>data</i> | Initial data for the node or, if --import is specified, a URL pointing at a location that contains the initial data. |

NAME

zk:delete – delete the specified znode

SYNOPSIS

```
zk:delete [
  --help
] [
  -v|--version version
] [
  -r|--recursive
] {
  path
}
```

ARGUMENTS

[Table 24.2, “zk:delete Arguments”](#) describes the commands arguments.

Table 24.2. zk:delete Arguments

| Argument | Interpretation |
|------------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-v, --version</code> | The ZooKeeper znode version to delete. Defaults to -1 (all versions). |
| <code>-r, --recursive</code> | Recursively delete children. Defaults to false . |
| <i>path</i> | Path of the znode to delete. |

NAME

`zk:get` – get a znode's data

SYNOPSIS

```
zk:get [
  --help
] {
  path
}
```

ARGUMENTS

[Table 24.3, “zk:get Arguments”](#) describes the commands arguments.

Table 24.3. zk:get Arguments

| Argument | Interpretation |
|---------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <i>path</i> | <i>(Required)</i> Path of the znode to get. |

NAME

`zk:list` – list a znode's children

SYNOPSIS

```
zk:list [
  --help
] [
  -r|--recursive
] [
```

```

    -d|--display
  ] {
    path
  }

```

ARGUMENTS

Table 24.4, “zk:list Arguments” describes the commands arguments.

Table 24.4. zk:list Arguments

| Argument | Interpretation |
|------------------------------|---|
| <code>--help</code> | Displays the online help for this command |
| <code>-r, --recursive</code> | List children recursively. |
| <code>-d, --display</code> | Display a znode's value, if set. |
| <code>path</code> | Path of the znode to list. Defaults to <code>/</code> . |

NAME

zk:set – set a znode's data

SYNOPSIS

```

zk:set [
  --help
] [
  -i|--import
] {
  path
} {
  data
}

```

DESCRIPTION

The data stored in a znode should not be too large. ZooKeeper imposes an absolute limit of 1 MB, but in practice a data item should normally be much smaller than that.

**IMPORTANT**

To avoid corruption of the Fabric Registry, you should *not* modify any znodes under the `/fabric/` path using the `zk:set` command. These registry values should only be changed through the fabric console commands—see [Chapter 10, Fabric Console Commands](#).

ARGUMENTS

[Table 24.5, “zk:set Arguments”](#) describes the commands arguments.

Table 24.5. zk:set Arguments

| Argument | Interpretation |
|---------------------------|--|
| <code>--help</code> | Displays the online help for this command |
| <code>-i, --import</code> | Import data from a URL. |
| <i>path</i> | <i>(Required)</i> Path of the znode to set. |
| <i>data</i> | <i>(Required)</i> The new data or URL to import. |