



Red Hat Decision Manager 7.4

Deploying a Red Hat Decision Manager trial environment on Red Hat OpenShift Container Platform

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Abstract

This document describes how to deploy a Red Hat Decision Manager 7.4 trial environment on Red Hat OpenShift Container Platform.

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PREFACE

As a system engineer, you can deploy a Red Hat Decision Manager trial environment on Red Hat OpenShift Container Platform to evaluate or demonstrate development and use of rules and other business assets.

Prerequisites

- At least three gigabytes of memory are available in the OpenShift cluster/namespace.
- The OpenShift project for the deployment has been created.
- You are logged in to the project using the **oc** command. For more information about the **oc** command-line tool, see the OpenShift [CLI Reference](#). If you want to use the OpenShift Web console to deploy templates, you must also be logged on using the Web console.

CHAPTER 1. OVERVIEW OF RED HAT DECISION MANAGER ON RED HAT OPENSIFT CONTAINER PLATFORM

You can deploy Red Hat Decision Manager into a Red Hat OpenShift Container Platform environment.

In this solution, components of Red Hat Decision Manager are deployed as separate OpenShift pods. You can scale each of the pods up and down individually to provide as few or as many containers as required for a particular component. You can use standard OpenShift methods to manage the pods and balance the load.

The following key components of Red Hat Decision Manager are available on OpenShift:

- Decision Server, also known as *Execution Server* or *KIE Server*, is the infrastructure element that runs decision services and other deployable assets (collectively referred to as *services*) . All logic of the services runs on execution servers.

You can scale up a Decision Server pod to provide as many copies as required, running on the same host or different hosts. As you scale a pod up or down, all of its copies run the same services. OpenShift provides load balancing and a request can be handled by any of the pods.

You can deploy a separate Decision Server pod to run a different group of services. That pod can also be scaled up or down. You can have as many separate replicated Decision Server pods as required.

- Business Central is a web-based interactive environment used for authoring services. It also provides a management console. You can use Business Central to develop services and deploy them to Decision Servers.

Business Central is a centralized application. However, you can configure it for high availability, where multiple pods run and share the same data.

Business Central includes a Git repository that holds the source for the services that you develop on it. It also includes a built-in Maven repository. Depending on configuration, Business Central can place the compiled services (KJAR files) into the built-in Maven repository or (if configured) into an external Maven repository.



IMPORTANT

In the current version, high-availability Business Central functionality is for Technology Preview only. For more information on Red Hat Technology Preview features, see [Technology Preview Features Scope](#) .

You can arrange these and other components into various environment configurations within OpenShift.

The following environment types are typical:

- *Authoring or managed environment*: An environment architecture that can be used for creating and modifying services using Business Central and also for running services on Decision Servers. It consists of pods that provide Business Central for the authoring work and one or more Decision Servers for execution of the services. Each Decision Server is a pod that you can replicate by scaling it up or down as necessary. You can deploy and undeploy services on each Decision Server using Business Central. For instructions about deploying this environment, see [Deploying a Red Hat Decision Manager authoring or managed server environment on Red Hat OpenShift Container Platform](#).
- *Deployment with immutable servers*: An alternate environment for running existing services for staging and production purposes. In this environment, when you deploy a Decision Server pod, it

builds an image that loads and starts a service or group of services. You cannot stop any service on the pod or add any new service to the pod. If you want to use another version of a service or modify the configuration in any other way, you deploy a new server image and displace the old one. In this system, the Decision Server runs like any other pod on the OpenShift environment; you can use any container-based integration workflows and do not need to use any other tools to manage the pods. For instructions about deploying this environment, see [Deploying a Red Hat Decision Manager immutable server environment on Red Hat OpenShift Container Platform](#).

You can also deploy a *trial* or evaluation environment. This environment includes Business Central and a Decision Server. You can set it up quickly and use it to evaluate or demonstrate developing and running assets. However, the environment does not use any persistent storage, and any work you do in the environment is not saved. For instructions about deploying this environment, see [Deploying a Red Hat Decision Manager trial environment on Red Hat OpenShift Container Platform](#).

To deploy a Red Hat Decision Manager environment on OpenShift, you can use the templates that are provided with Red Hat Decision Manager.

CHAPTER 2. ENSURING THE AVAILABILITY OF IMAGE STREAMS AND THE IMAGE REGISTRY

To deploy Red Hat Decision Manager components on Red Hat OpenShift Container Platform, you must ensure that OpenShift can download the correct images from the Red Hat registry. To download the images, OpenShift requires *image streams*, which contain the information about the location of images. OpenShift also must be configured to authenticate with the Red Hat registry using your service account user name and password.

Some versions of the OpenShift environment include the required image streams. You must check if they are available. If image streams are available in OpenShift by default, you can use them if the OpenShift infrastructure is configured for registry authentication server. The administrator must complete the registry authentication configuration when installing the OpenShift environment.

Otherwise, you can configure registry authentication in your own project and install the image streams in that project.

Procedure

1. Determine whether Red Hat OpenShift Container Platform is configured with the user name and password for Red Hat registry access. For details about the required configuration, see [Configuring a Registry Location](#). If you are using an OpenShift Online subscription, it is configured for Red Hat registry access.
2. If Red Hat OpenShift Container Platform is configured with the user name and password for Red Hat registry access, enter the following commands:

```
$ oc get imagestreamtag -n openshift | grep rhdm74-decisioncentral-openshift
$ oc get imagestreamtag -n openshift | grep rhdm74-kieserver-openshift
```

If the outputs of both commands are not empty, the required image streams are available in the **openshift** namespace and no further action is required.

3. If the output of one or both of the commands is empty or if OpenShift is not configured with the user name and password for Red Hat registry access, complete the following steps:
 - a. Ensure you are logged in to OpenShift with the **oc** command and that your project is active.
 - b. Complete the steps documented in [Registry Service Accounts for Shared Environments](#). You must log in to the Red Hat Customer Portal to access the document and to complete the steps to create a registry service account.
 - c. Select the **OpenShift Secret** tab and click the link under **Download secret** to download the YAML secret file.
 - d. View the downloaded file and note the name that is listed in the **name:** entry.
 - e. Enter the following commands:

```
oc create -f <file_name>.yaml
oc secrets link default <secret_name> --for=pull
oc secrets link builder <secret_name> --for=pull
```

Replace **<file_name>** with the name of the downloaded file and **<secret_name>** with the name that is listed in the **name:** entry of the file.

- f. Download the **rhdm-7.4.0-openshift-templates.zip** product deliverable file from the [Software Downloads](#) page and extract the **rhdm74-image-streams.yaml** file.
- g. Complete one of the following actions:
 - Enter the following command:

```
$ oc create -f rhdm74-image-streams.yaml
```

- In the OpenShift Web UI, select **Add to Project** → **Import YAML / JSON** and then choose the file or paste its contents.



NOTE

If you complete these steps, you install the image streams into the namespace of your project. In this case, when you deploy the templates, you must set the **IMAGE_STREAM_NAMESPACE** parameter to the name of this project.

CHAPTER 3. DEPLOYING A TRIAL ENVIRONMENT

You can deploy a trial (evaluation) Red Hat Decision Manager environment. It consists of Business Central for authoring or managing services and Decision Server for test execution of services.

This environment does not include permanent storage. Assets that you create or modify in a trial environment are not saved.

This environment is intended for test and demonstration access. It supports cross-origin resource sharing (CORS). This means that Decision Server endpoints can be accessed using a browser when other resources on the page are provided by other servers. Decision Server endpoints are normally intended for REST calls, but browser access can be needed in some demonstration configurations.

The procedure is minimal. There are no required settings and all passwords are set to a single value (the default password is **RedHat**).

To deploy a trial environment, use the **rhdm74-trial-ephemeral.yaml** template file. You can extract this file from the **rhdm-7.4.0-openshift-templates.zip** product deliverable file. You can download the file from the [Software Downloads](#) page of the Red Hat Customer Portal.

Procedure

1. Use one of the following methods to deploy the template:
 - In the OpenShift Web UI, select **Add to Project** → **Import YAML / JSON** and then select or paste the **rhdm74-trial-ephemeral.yaml** file. In the **Add Template** window, ensure **Process the template** is selected and click **Continue**.
 - To use the OpenShift command line console, prepare the following command line:

```
oc new-app -f <template-path>/rhdm74-trial-ephemeral.yaml
```

In this command line, replace **<template-path>** with the path to the downloaded template file.

2. Optionally, set any parameters as described in the template. A typical trial deployment requires only the following parameter:
 - **ImageStream Namespace (IMAGE_STREAM_NAMESPACE)**: The namespace where the image streams are available. If the image streams were already available in your OpenShift environment (see [Chapter 2, Ensuring the availability of image streams and the image registry](#)), the namespace is **openshift**. If you installed the image streams file, the namespace is the name of the OpenShift project.
3. Complete the creation of the environment, depending on the method that you are using:
 - In the OpenShift Web UI, click **Create**.
 - A **This will create resources that may have security or project behavior implications** pop-up message might be displayed. If it is displayed, click **Create Anyway**.
 - Complete and run the command line.

CHAPTER 4. OPENSIFT TEMPLATE REFERENCE INFORMATION

Red Hat Decision Manager provides the following OpenShift templates. To access the templates, download and extract the **rhdm-7.4.0-openshift-templates.zip** product deliverable file from the [Software Downloads](#) page of the Red Hat customer portal.

- **rhdm74-trial-ephemeral.yaml** provides a Business Central and a Decision Server connected to the Business Central. This environment uses an ephemeral configuration without any persistent storage. For details about this template, see [Section 4.1, “rhdm74-trial-ephemeral.yaml template”](#).

4.1. RHDM74-TRIAL-EPHEMERAL.YAML TEMPLATE

Application template for an ephemeral authoring and testing environment, for Red Hat Decision Manager 7.4

4.1.1. Parameters

Templates allow you to define parameters which take on a value. That value is then substituted wherever the parameter is referenced. References can be defined in any text field in the objects list field. Refer to the [Openshift documentation](#) for more information.

Variable name	Image Environment Variable	Description	Example value	Required
APPLICATION_NAME	–	The name for the application.	myapp	True
DEFAULT_PASSWORD	KIE_ADMIN_PASSWORD	Default password used for multiple components for user convenience in this trial environment.	RedHat	True
KIE_ADMIN_USER	KIE_ADMIN_USER	KIE administrator username.	adminUser	False
KIE_SERVER_USER	KIE_SERVER_USER	KIE server username. (Sets the org.kie.server.user system property)	executionUser	False

Variable name	Image Environment Variable	Description	Example value	Required
KIE_SERVER_BYPASS_AUTH_USER	KIE_SERVER_BYPASS_AUTH_USER	Allows the KIE server to bypass the authenticated user for task related operations e.g. queries. (Sets the org.kie.server.bypass.auth.user system property)	false	False
KIE_SERVER_CONTROLLER_USER	KIE_SERVER_CONTROLLER_USER	KIE server controller username. (Sets the org.kie.server.controller.user system property)	controllerUser	False
KIE_SERVER_MODE	KIE_SERVER_MODE	The KIE Server mode. Valid values are 'DEVELOPMENT' or 'PRODUCTION'. In production mode, you can not deploy SNAPSHOT versions of artifacts on the KIE server and can not change the version of an artifact in an existing container. (Sets the org.kie.server.mode system property).	DEVELOPMENT	False
KIE_MBEANS	KIE_MBEANS	KIE server mbeans enabled/disabled. (Sets the kie.mbeans and kie.scanner.mbeans system properties)	enabled	False

Variable name	Image Environment Variable	Description	Example value	Required
DROOLS_SERVER_FILTER_CLASSES	DROOLS_SERVER_FILTER_CLASSES	KIE server class filtering. (Sets the org.drools.server.filter.classes.system property)	true	False
PROMETHEUS_SERVER_EXT_DISABLED	PROMETHEUS_SERVER_EXT_DISABLED	If set to false, the prometheus server extension will be enabled. (Sets the org.kie.prometheus.server.ext.disabled system property)	false	False
KIE_SERVER_HOSTNAME_HTTP	HOSTNAME_HTTP	Custom hostname for http service route. Leave blank for default hostname, e.g.: insecure-<application-name>-kieserver-<project>.<default-domain-suffix>	–	False
KIE_SERVER_ACCESS_CONTROL_ALLOW_ORIGIN	AC_ALLOW_ORIGIN_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Allow-Origin response header value in the KIE Server (useful for CORS support).	*	False
KIE_SERVER_ACCESS_CONTROL_ALLOW_METHODS	AC_ALLOW_METHODS_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Allow-Methods response header value in the KIE Server (useful for CORS support).	GET, POST, OPTIONS, PUT	False
KIE_SERVER_ACCESS_CONTROL_ALLOW_HEADERS	AC_ALLOW_HEADERS_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Allow-Headers response header value in the KIE Server (useful for CORS support).	Accept, Authorization, Content-Type, X-Requested-With	False

Variable name	Image Environment Variable	Description	Example value	Required
KIE_SERVER_ACCESS_CONTROL_ALLOW_CREDENTIALS	AC_ALLOW_CREDENTIALS_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Allow-Credentials response header value in the KIE Server (useful for CORS support).	true	False
KIE_SERVER_ACCESS_CONTROL_MAX_AGE	AC_MAX_AGE_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Max-Age response header value in the KIE Server (useful for CORS support).	1	False
DECISION_CENTRAL_HOSTNAME_HTTP	HOSTNAME_HTTP	Custom hostname for http service route. Leave blank for default hostname, e.g.: insecure-<application-name>-rhdmcentr-<project>.<default-domain-suffix>	–	False
KIE_SERVER_CONTROLLER_OPENSHIFT_GLOBAL_DISCOVERY_ENABLED	KIE_SERVER_CONTROLLER_OPENSHIFT_GLOBAL_DISCOVERY_ENABLED	If set to true, turns on KIE server global discovery feature (Sets the org.kie.server.controller.openshift.global.discovery.enabled system property)	false	False

Variable name	Image Environment Variable	Description	Example value	Required
KIE_SERVER_CONTROLLER_OPENSHIFT_PREFER_KIESERVER_SERVICE	KIE_SERVER_CONTROLLER_OPENSHIFT_PREFER_KIESERVER_SERVICE	If OpenShift integration of Business Central is turned on, setting this parameter to true enables connection to KIE Server via an OpenShift internal Service endpoint. (Sets the <code>org.kie.server.controller.openshift.prefer.kieserver.service</code> system property)	true	False
KIE_SERVER_CONTROLLER_TEMPLATE_CACHE_TTL	KIE_SERVER_CONTROLLER_TEMPLATE_CACHE_TTL	KIE ServerTemplate Cache TTL in milliseconds. (Sets the <code>org.kie.server.controller.template.cache.ttl</code> system property)	60000	False
IMAGE_STREAM_NAMESPACE	–	Namespace in which the ImageStreams for Red Hat Middleware images are installed. These ImageStreams are normally installed in the openshift namespace. You should only need to modify this if you installed the ImageStreams in a different namespace/project.	openshift	True

Variable name	Image Environment Variable	Description	Example value	Required
KIE_SERVER_IMAGE_STREAM_NAME	–	The name of the image stream to use for KIE server. Default is "rhdm74-kieserver-openshift".	rhdm74-kieserver-openshift	True
IMAGE_STREAM_TAG	–	A named pointer to an image in an image stream. Default is "1.0".	1.0	True
KIE_SERVER_CONTAINER_DEPLOYMENT	KIE_SERVER_CONTAINER_DEPLOYMENT	KIE Server Container deployment configuration in format: containerId=groupId:artifactId:version c2=g2:a2:v2	–	False
MAVEN_REPO_ID	MAVEN_REPO_ID	The id to use for the maven repository, if set. Default is generated randomly.	repo-custom	False
MAVEN_REPO_URL	MAVEN_REPO_URL	Fully qualified URL to a Maven repository or service.	http://nexus.nexus-project.svc.cluster.local:8081/nexus/content/groups/public/	False
MAVEN_REPO_USERNAME	MAVEN_REPO_USERNAME	Username to access the Maven repository, if required.	–	False
MAVEN_REPO_PASSWORD	MAVEN_REPO_PASSWORD	Password to access the Maven repository, if required.	–	False

Variable name	Image Environment Variable	Description	Example value	Required
DECISION_CENTRAL_MAVEN_USERNAME	KIE_MAVEN_USER	Username to access the Maven service hosted by Decision Central inside EAP.	mavenUser	True
GIT_HOOKS_DIR	GIT_HOOKS_DIR	The directory to use for git hooks, if required.	/opt/kie/data/git/hooks	False
DECISION_CENTRAL_MEMORY_LIMIT	–	Decision Central Container memory limit.	2Gi	False
KIE_SERVER_MEMORY_LIMIT	–	KIE server Container memory limit.	1Gi	False
SSO_URL	SSO_URL	RH-SSO URL.	https://rh-sso.example.com/auth	False
SSO_REALM	SSO_REALM	RH-SSO Realm name.	–	False
DECISION_CENTRAL_SSO_CLIENT	SSO_CLIENT	Decision Central RH-SSO Client name.	–	False
DECISION_CENTRAL_SSO_SECRET	SSO_SECRET	Decision Central RH-SSO Client Secret.	252793ed-7118-4ca8-8dab-5622fa97d892	False
KIE_SERVER_SSO_CLIENT	SSO_CLIENT	KIE Server RH-SSO Client name.	–	False
KIE_SERVER_SSO_SECRET	SSO_SECRET	KIE Server RH-SSO Client Secret.	252793ed-7118-4ca8-8dab-5622fa97d892	False

Variable name	Image Environment Variable	Description	Example value	Required
SSO_USERNAME	SSO_USERNAME	RH-SSO Realm Admin Username used to create the Client if it doesn't exist.	–	False
SSO_PASSWORD	SSO_PASSWORD	RH-SSO Realm Admin Password used to create the Client.	–	False
SSO_DISABLE_SSL_CERTIFICATE_VALIDATION	SSO_DISABLE_SSL_CERTIFICATE_VALIDATION	RH-SSO Disable SSL Certificate Validation.	false	False
SSO_PRINCIPAL_ATTRIBUTE	SSO_PRINCIPAL_ATTRIBUTE	RH-SSO Principal Attribute to use as username.	preferred_username	False
AUTH_LDAP_URL	AUTH_LDAP_URL	LDAP Endpoint to connect for authentication.	ldap://myldap.example.com	False
AUTH_LDAP_BIND_DN	AUTH_LDAP_BIND_DN	Bind DN used for authentication.	uid=admin,ou=users,ou=example,ou=com	False
AUTH_LDAP_BIND_CREDENTIAL	AUTH_LDAP_BIND_CREDENTIAL	LDAP Credentials used for authentication.	Password	False
AUTH_LDAP_JAAS_SECURITY_DOMAIN	AUTH_LDAP_JAAS_SECURITY_DOMAIN	The JMX ObjectName of the JaasSecurityDomain used to decrypt the password.	–	False
AUTH_LDAP_BASE_CTX_DN	AUTH_LDAP_BASE_CTX_DN	LDAP Base DN of the top-level context to begin the user search.	ou=users,ou=example,ou=com	False

Variable name	Image Environment Variable	Description	Example value	Required
AUTH_LDAP_B ASE_FILTER	AUTH_LDAP_B ASE_FILTER	LDAP search filter used to locate the context of the user to authenticate. The input username or userDN obtained from the login module callback is substituted into the filter anywhere a {0} expression is used. A common example for the search filter is (uid={0}).	(uid={0})	False
AUTH_LDAP_S EARCH_SCOPE	AUTH_LDAP_S EARCH_SCOPE	The search scope to use.	SUBTREE_SCO PE	False
AUTH_LDAP_S EARCH_TIME_L IMIT	AUTH_LDAP_S EARCH_TIME_L IMIT	The timeout in milliseconds for user or role searches.	10000	False
AUTH_LDAP_DI STINGUISHED_ NAME_ATTRIB UTE	AUTH_LDAP_DI STINGUISHED_ NAME_ATTRIB UTE	The name of the attribute in the user entry that contains the DN of the user. This may be necessary if the DN of the user itself contains special characters, backslash for example, that prevent correct user mapping. If the attribute does not exist, the entry's DN is used.	distinguishedNam e	False

Variable name	Image Environment Variable	Description	Example value	Required
AUTH_LDAP_PARSE_USERNAME	AUTH_LDAP_PARSE_USERNAME	A flag indicating if the DN is to be parsed for the username. If set to true, the DN is parsed for the username. If set to false the DN is not parsed for the username. This option is used together with <code>usernameBeginString</code> and <code>usernameEndString</code> .	true	False
AUTH_LDAP_USERNAME_BEGIN_STRING	AUTH_LDAP_USERNAME_BEGIN_STRING	Defines the String which is to be removed from the start of the DN to reveal the username. This option is used together with <code>usernameEndString</code> and only taken into account if <code>parseUsername</code> is set to true.	–	False
AUTH_LDAP_USERNAME_END_STRING	AUTH_LDAP_USERNAME_END_STRING	Defines the String which is to be removed from the end of the DN to reveal the username. This option is used together with <code>usernameEndString</code> and only taken into account if <code>parseUsername</code> is set to true.	–	False
AUTH_LDAP_ROLE_ATTRIBUTE_ID	AUTH_LDAP_ROLE_ATTRIBUTE_ID	Name of the attribute containing the user roles.	memberOf	False

Variable name	Image Environment Variable	Description	Example value	Required
AUTH_LDAP_ROLES_CTX_DN	AUTH_LDAP_ROLES_CTX_DN	The fixed DN of the context to search for user roles. This is not the DN where the actual roles are, but the DN where the objects containing the user roles are. For example, in a Microsoft Active Directory server, this is the DN where the user account is.	ou=groups,ou=example,ou=com	False

Variable name	Image Environment Variable	Description	Example value	Required
AUTH_LDAP_ROLE_FILTER	AUTH_LDAP_ROLE_FILTER	A search filter used to locate the roles associated with the authenticated user. The input username or userDN obtained from the login module callback is substituted into the filter anywhere a {0} expression is used. The authenticated userDN is substituted into the filter anywhere a {1} is used. An example search filter that matches on the input username is (member={0}). An alternative that matches on the authenticated userDN is (member={1}).	(memberOf={1})	False
AUTH_LDAP_ROLE_RECURSION	AUTH_LDAP_ROLE_RECURSION	The number of levels of recursion the role search will go below a matching context. Disable recursion by setting this to 0.	1	False
AUTH_LDAP_DEFAULT_ROLE	AUTH_LDAP_DEFAULT_ROLE	A role included for all authenticated users.	user	False

Variable name	Image Environment Variable	Description	Example value	Required
AUTH_LDAP_ROLE_NAME_ATTRIBUTE_ID	AUTH_LDAP_ROLE_NAME_ATTRIBUTE_ID	Name of the attribute within the roleCtxDN context which contains the role name. If the roleAttributesDN property is set to true, this property is used to find the role object's name attribute.	name	False
AUTH_LDAP_PARSE_ROLE_NAME_FROM_DN	AUTH_LDAP_PARSE_ROLE_NAME_FROM_DN	A flag indicating if the DN returned by a query contains the roleNameAttribute ID. If set to true, the DN is checked for the roleNameAttribute ID. If set to false, the DN is not checked for the roleNameAttribute ID. This flag can improve the performance of LDAP queries.	false	False
AUTH_LDAP_ROLE_ATTRIBUTE_IS_DN	AUTH_LDAP_ROLE_ATTRIBUTE_IS_DN	Whether or not the roleAttributeID contains the fully-qualified DN of a role object. If false, the role name is taken from the value of the roleNameAttribute Id attribute of the context name. Certain directory schemas, such as Microsoft Active Directory, require this attribute to be set to true.	false	False

Variable name	Image Environment Variable	Description	Example value	Required
AUTH_LDAP_REFERRAL_USE_R_ATTRIBUTE_ID_TO_CHECK	AUTH_LDAP_REFERRAL_USE_R_ATTRIBUTE_ID_TO_CHECK	If you are not using referrals, you can ignore this option. When using referrals, this option denotes the attribute name which contains users defined for a certain role, for example member, if the role object is inside the referral. Users are checked against the content of this attribute name. If this option is not set, the check will always fail, so role objects cannot be stored in a referral tree.	–	False
AUTH_ROLE_MAPPER_ROLES_PROPERTIES	AUTH_ROLE_MAPPER_ROLES_PROPERTIES	When present, the RoleMapping Login Module will be configured to use the provided file. This parameter defines the fully-qualified file path and name of a properties file or resource which maps roles to replacement roles. The format is original_role=role1,role2,role3	–	False
AUTH_ROLE_MAPPER_REPLACE_ROLE	AUTH_ROLE_MAPPER_REPLACE_ROLE	Whether to add to the current roles, or replace the current roles with the mapped ones. Replaces if set to true.	–	False

4.1.2. Objects

The CLI supports various object types. A list of these object types as well as their abbreviations can be found in the [Openshift documentation](#).

4.1.2.1. Services

A service is an abstraction which defines a logical set of pods and a policy by which to access them. Refer to the [container-engine documentation](#) for more information.

Service	Port	Name	Description
\${APPLICATION_NAME}-rhdmcenr	8080	http	All the Decision Central web server's ports.
	8001	git-ssh	
\${APPLICATION_NAME}-kieserver	8080	–	All the KIE server web server's ports.

4.1.2.2. Routes

A route is a way to expose a service by giving it an externally-reachable hostname such as **www.example.com**. A defined route and the endpoints identified by its service can be consumed by a router to provide named connectivity from external clients to your applications. Each route consists of a route name, service selector, and (optionally) security configuration. Refer to the [Openshift documentation](#) for more information.

Service	Security	Hostname
insecure- \${APPLICATION_NAME}- rhdmcenr-http	none	\${DECISION_CENTRAL_HOSTNAME_HTTP}
insecure- \${APPLICATION_NAME}- kieserver-http	none	\${KIE_SERVER_HOSTNAME_HTTP}

4.1.2.3. Deployment Configurations

A deployment in OpenShift is a replication controller based on a user defined template called a deployment configuration. Deployments are created manually or in response to triggered events. Refer to the [Openshift documentation](#) for more information.

4.1.2.3.1. Triggers

A trigger drives the creation of new deployments in response to events, both inside and outside OpenShift. Refer to the [Openshift documentation](#) for more information.

Deployment	Triggers
<code>\${APPLICATION_NAME}-rhdmcentr</code>	ImageChange
<code>\${APPLICATION_NAME}-kieserver</code>	ImageChange

4.1.2.3.2. Replicas

A replication controller ensures that a specified number of pod "replicas" are running at any one time. If there are too many, the replication controller kills some pods. If there are too few, it starts more. Refer to the [container-engine documentation](#) for more information.

Deployment	Replicas
<code>\${APPLICATION_NAME}-rhdmcentr</code>	1
<code>\${APPLICATION_NAME}-kieserver</code>	1

4.1.2.3.3. Pod Template

4.1.2.3.3.1. Service Accounts

Service accounts are API objects that exist within each project. They can be created or deleted like any other API object. Refer to the [Openshift documentation](#) for more information.

Deployment	Service Account
<code>\${APPLICATION_NAME}-rhdmcentr</code>	<code>\${APPLICATION_NAME}-rhdmsvc</code>
<code>\${APPLICATION_NAME}-kieserver</code>	<code>\${APPLICATION_NAME}-rhdmsvc</code>

4.1.2.3.3.2. Image

Deployment	Image
<code>\${APPLICATION_NAME}-rhdmcentr</code>	rhdm74-decisioncentral-openshift
<code>\${APPLICATION_NAME}-kieserver</code>	<code>\${KIE_SERVER_IMAGE_STREAM_NAME}</code>

4.1.2.3.3.3. Readiness Probe

`${APPLICATION_NAME}-rhdmcentr`

Http Get on `http://localhost:8080/rest/ready`

\${APPLICATION_NAME}-kieserver

Http Get on `http://localhost:8080/services/rest/server/readycheck`

4.1.2.3.3.4. Liveness Probe

\${APPLICATION_NAME}-rhdmcenr

Http Get on `http://localhost:8080/rest/healthy`

\${APPLICATION_NAME}-kieserver

Http Get on `http://localhost:8080/services/rest/server/healthcheck`

4.1.2.3.3.5. Exposed Ports

Deployments	Name	Port	Protocol
\${APPLICATION_NAME}-rhdmcenr	jolokia	8778	TCP
	http	8080	TCP
	git-ssh	8001	TCP
\${APPLICATION_NAME}-kieserver	jolokia	8778	TCP
	http	8080	TCP

4.1.2.3.3.6. Image Environment Variables

Deployment	Variable name	Description	Example value
\${APPLICATION_NAME}-rhdmcenr	KIE_ADMIN_USER	KIE administrator username.	\${KIE_ADMIN_USER}
	KIE_ADMIN_PWD	Default password used for multiple components for user convenience in this trial environment.	\${DEFAULT_PASSWORD}
	KIE_MBEANS	KIE server mbeans enabled/disabled. (Sets the kie.mbeans and kie.scanner.mbeans system properties)	\${KIE_MBEANS}

Deployment	Variable name	Description	Example value
	KIE_SERVER_CONTROLLER_OPENSHIFT_GLOBAL_DISCOVERY_ENABLED	If set to true, turns on KIE server global discovery feature (Sets the org.kie.server.controller.openshift.global.discovery.enabled system property)	`\${KIE_SERVER_CONTROLLER_OPENSHIFT_GLOBAL_DISCOVERY_ENABLED}`
	KIE_SERVER_CONTROLLER_OPENSHIFT_PREFER_KIESERVER_SERVICE	If OpenShift integration of Business Central is turned on, setting this parameter to true enables connection to KIE Server via an OpenShift internal Service endpoint. (Sets the org.kie.server.controller.openshift.prefer.kieserver.service system property)	`\${KIE_SERVER_CONTROLLER_OPENSHIFT_PREFER_KIESERVER_SERVICE}`
	KIE_SERVER_CONTROLLER_TEMPLATE_CACHE_TTL	KIE ServerTemplate Cache TTL in milliseconds. (Sets the org.kie.server.controller.template.cache.ttl system property)	`\${KIE_SERVER_CONTROLLER_TEMPLATE_CACHE_TTL}`
	KIE_WORKBENCH_CONTROLLER_OPENSHIFT_ENABLED	–	true
	KIE_SERVER_CONTROLLER_USER	KIE server controller username. (Sets the org.kie.server.controller.user system property)	`\${KIE_SERVER_CONTROLLER_USER}`
	KIE_SERVER_CONTROLLER_PWD	Default password used for multiple components for user convenience in this trial environment.	`\${DEFAULT_PASSWORD}`
	KIE_SERVER_USER	KIE server username. (Sets the org.kie.server.user system property)	`\${KIE_SERVER_USER}`

Deployment	Variable name	Description	Example value
	KIE_SERVER_PWD	Default password used for multiple components for user convenience in this trial environment.	\${DEFAULT_PASSWORD}
	WORKBENCH_ROUTE_NAME	–	\${APPLICATION_NAME}-rhdmcenr
	MAVEN_REPO_ID	The id to use for the maven repository, if set. Default is generated randomly.	\${MAVEN_REPO_ID}
	MAVEN_REPO_URL	Fully qualified URL to a Maven repository or service.	\${MAVEN_REPO_URL}
	MAVEN_REPO_USERNAME	Username to access the Maven repository, if required.	\${MAVEN_REPO_USERNAME}
	MAVEN_REPO_PASSWORD	Password to access the Maven repository, if required.	\${MAVEN_REPO_PASSWORD}
	KIE_MAVEN_USER	Username to access the Maven service hosted by Decision Central inside EAP.	\${DECISION_CENTRAL_MAVEN_USERNAME}
	KIE_MAVEN_PWD	Default password used for multiple components for user convenience in this trial environment.	\${DEFAULT_PASSWORD}
	GIT_HOOKS_DIR	The directory to use for git hooks, if required.	\${GIT_HOOKS_DIR}
	SSO_URL	RH-SSO URL.	\${SSO_URL}
	SSO_OPENIDCONNECT_DEPLOYMENTS	–	ROOT.war
	SSO_REALM	RH-SSO Realm name.	\${SSO_REALM}
	SSO_SECRET	Decision Central RH-SSO Client Secret.	\${DECISION_CENTRAL_SSO_SECRET}

Deployment	Variable name	Description	Example value
	SSO_CLIENT	Decision Central RH-SSO Client name.	`\${DECISION_CENTRAL_SSO_CLIENT}`
	SSO_USERNAME	RH-SSO Realm Admin Username used to create the Client if it doesn't exist.	`\${SSO_USERNAME}`
	SSO_PASSWORD	RH-SSO Realm Admin Password used to create the Client.	`\${SSO_PASSWORD}`
	SSO_DISABLE_SSL_CERTIFICATE_VALIDATION	RH-SSO Disable SSL Certificate Validation.	`\${SSO_DISABLE_SSL_CERTIFICATE_VALIDATION}`
	SSO_PRINCIPAL_ATTRIBUTE	RH-SSO Principal Attribute to use as username.	`\${SSO_PRINCIPAL_ATTRIBUTE}`
	HOSTNAME_HTTP	Custom hostname for http service route. Leave blank for default hostname, e.g.: insecure-<application-name>-rhdmcenr-<project>.<default-domain-suffix>	`\${DECISION_CENTRAL_HOSTNAME_HTTP}`
	AUTH_LDAP_URL	LDAP Endpoint to connect for authentication.	`\${AUTH_LDAP_URL}`
	AUTH_LDAP_BIND_DN	Bind DN used for authentication.	`\${AUTH_LDAP_BIND_DN}`
	AUTH_LDAP_BIND_CREDENTIAL	LDAP Credentials used for authentication.	`\${AUTH_LDAP_BIND_CREDENTIAL}`
	AUTH_LDAP_JAAS_SECURITY_DOMAIN	The JMX ObjectName of the JaasSecurityDomain used to decrypt the password.	`\${AUTH_LDAP_JAAS_SECURITY_DOMAIN}`

Deployment	Variable name	Description	Example value
	AUTH_LDAP_BASE_CTX_DN	LDAP Base DN of the top-level context to begin the user search.	`\${AUTH_LDAP_BASE_CTX_DN}`
	AUTH_LDAP_BASE_FILTER	LDAP search filter used to locate the context of the user to authenticate. The input username or userDN obtained from the login module callback is substituted into the filter anywhere a {0} expression is used. A common example for the search filter is (uid={0}).	`\${AUTH_LDAP_BASE_FILTER}`
	AUTH_LDAP_SEARCH_SCOPE	The search scope to use.	`\${AUTH_LDAP_SEARCH_SCOPE}`
	AUTH_LDAP_SEARCH_TIME_LIMIT	The timeout in milliseconds for user or role searches.	`\${AUTH_LDAP_SEARCH_TIME_LIMIT}`
	AUTH_LDAP_DISTINGUISHED_NAME_ATTRIBUTE	The name of the attribute in the user entry that contains the DN of the user. This may be necessary if the DN of the user itself contains special characters, backslash for example, that prevent correct user mapping. If the attribute does not exist, the entry's DN is used.	`\${AUTH_LDAP_DISTINGUISHED_NAME_ATTRIBUTE}`
	AUTH_LDAP_PARSE_USERNAME	A flag indicating if the DN is to be parsed for the username. If set to true, the DN is parsed for the username. If set to false the DN is not parsed for the username. This option is used together with <code>usernameBeginString</code> and <code>usernameEndString</code> .	`\${AUTH_LDAP_PARSE_USERNAME}`

Deployment	Variable name	Description	Example value
	AUTH_LDAP_USER_NAME_BEGIN_STRING	Defines the String which is to be removed from the start of the DN to reveal the username. This option is used together with <code>usernameEndString</code> and only taken into account if <code>parseUsername</code> is set to true.	<code>\${AUTH_LDAP_USER_NAME_BEGIN_STRING}</code>
	AUTH_LDAP_USER_NAME_END_STRING	Defines the String which is to be removed from the end of the DN to reveal the username. This option is used together with <code>usernameEndString</code> and only taken into account if <code>parseUsername</code> is set to true.	<code>\${AUTH_LDAP_USER_NAME_END_STRING}</code>
	AUTH_LDAP_ROLE_ATTRIBUTE_ID	Name of the attribute containing the user roles.	<code>\${AUTH_LDAP_ROLE_ATTRIBUTE_ID}</code>
	AUTH_LDAP_ROLE_S_CTX_DN	The fixed DN of the context to search for user roles. This is not the DN where the actual roles are, but the DN where the objects containing the user roles are. For example, in a Microsoft Active Directory server, this is the DN where the user account is.	<code>\${AUTH_LDAP_ROLE_S_CTX_DN}</code>

Deployment	Variable name	Description	Example value
	AUTH_LDAP_ROLE_FILTER	A search filter used to locate the roles associated with the authenticated user. The input username or userDN obtained from the login module callback is substituted into the filter anywhere a {0} expression is used. The authenticated userDN is substituted into the filter anywhere a {1} is used. An example search filter that matches on the input username is (member={0}). An alternative that matches on the authenticated userDN is (member={1}).	`\${AUTH_LDAP_ROLE_FILTER}`
	AUTH_LDAP_ROLE_RECURSION	The number of levels of recursion the role search will go below a matching context. Disable recursion by setting this to 0.	`\${AUTH_LDAP_ROLE_RECURSION}`
	AUTH_LDAP_DEFAULT_ROLE	A role included for all authenticated users.	`\${AUTH_LDAP_DEFAULT_ROLE}`
	AUTH_LDAP_ROLE_NAME_ATTRIBUTE_ID	Name of the attribute within the roleCtxDN context which contains the role name. If the roleAttributesDN property is set to true, this property is used to find the role object's name attribute.	`\${AUTH_LDAP_ROLE_NAME_ATTRIBUTE_ID}`

Deployment	Variable name	Description	Example value
	AUTH_LDAP_PARSE_ROLE_NAME_FROM_DN	A flag indicating if the DN returned by a query contains the roleNameAttributeID. If set to true, the DN is checked for the roleNameAttributeID. If set to false, the DN is not checked for the roleNameAttributeID. This flag can improve the performance of LDAP queries.	`\${AUTH_LDAP_PARSE_ROLE_NAME_FROM_DN}`
	AUTH_LDAP_ROLE_ATTRIBUTE_IS_DN	Whether or not the roleAttributeID contains the fully-qualified DN of a role object. If false, the role name is taken from the value of the roleNameAttributeID attribute of the context name. Certain directory schemas, such as Microsoft Active Directory, require this attribute to be set to true.	`\${AUTH_LDAP_ROLE_ATTRIBUTE_IS_DN}`
	AUTH_LDAP_REFERRAL_USER_ATTRIBUTE_ID_TO_CHECK	If you are not using referrals, you can ignore this option. When using referrals, this option denotes the attribute name which contains users defined for a certain role, for example member, if the role object is inside the referral. Users are checked against the content of this attribute name. If this option is not set, the check will always fail, so role objects cannot be stored in a referral tree.	`\${AUTH_LDAP_REFERRAL_USER_ATTRIBUTE_ID_TO_CHECK}`

Deployment	Variable name	Description	Example value
	AUTH_ROLE_MAPPER_ROLES_PROPERTIES	When present, the RoleMapping Login Module will be configured to use the provided file. This parameter defines the fully-qualified file path and name of a properties file or resource which maps roles to replacement roles. The format is original_role=role1,role2,role3	\${AUTH_ROLE_MAPPER_ROLES_PROPERTIES}
	AUTH_ROLE_MAPPER_REPLACE_ROLE	Whether to add to the current roles, or replace the current roles with the mapped ones. Replaces if set to true.	\${AUTH_ROLE_MAPPER_REPLACE_ROLE}
\${APPLICATION_NAME}-kieserver	WORKBENCH_SERVICE_NAME	–	\${APPLICATION_NAME}-rhdmcenr
	KIE_ADMIN_USER	KIE administrator username.	\${KIE_ADMIN_USER}
	KIE_ADMIN_PWD	Default password used for multiple components for user convenience in this trial environment.	\${DEFAULT_PASSWORD}
	KIE_SERVER_MODE	The KIE Server mode. Valid values are 'DEVELOPMENT' or 'PRODUCTION'. In production mode, you can not deploy SNAPSHOT versions of artifacts on the KIE server and can not change the version of an artifact in an existing container. (Sets the org.kie.server.mode system property).	\${KIE_SERVER_MODE}

Deployment	Variable name	Description	Example value
	KIE_MBEANS	KIE server mbeans enabled/disabled. (Sets the kie.mbeans and kie.scanner.mbeans system properties)	\${KIE_MBEANS}
	DROOLS_SERVER_FILTER_CLASSES	KIE server class filtering. (Sets the org.drools.server.filter.classes system property)	\${DROOLS_SERVER_FILTER_CLASSES}
	PROMETHEUS_SERVER_EXT_DISABLED	If set to false, the prometheus server extension will be enabled. (Sets the org.kie.prometheus.server.ext.disabled system property)	\${PROMETHEUS_SERVER_EXT_DISABLED}
	KIE_SERVER_BYPASS_AUTH_USER	Allows the KIE server to bypass the authenticated user for task related operations e.g. queries. (Sets the org.kie.server.bypass.auth.user system property)	\${KIE_SERVER_BYPASS_AUTH_USER}
	KIE_SERVER_ID	–	–
	KIE_SERVER_ROUTE_NAME	–	insecure-\${APPLICATION_NAME}-kieserver
	KIE_SERVER_STARTUP_STRATEGY	–	OpenShiftStartupStrategy
	KIE_SERVER_USER	KIE server username. (Sets the org.kie.server.user system property)	\${KIE_SERVER_USER}
	KIE_SERVER_PWD	Default password used for multiple components for user convenience in this trial environment.	\${DEFAULT_PASSWORD}

Deployment	Variable name	Description	Example value
	KIE_SERVER_CONTAINER_DEPLOYMENT	KIE Server Container deployment configuration in format: containerId=groupId:artifactId:version c2=g2:a2:v2	`\${KIE_SERVER_CONTAINER_DEPLOYMENT}`
	MAVEN_REPOS	–	RHDMCENTR,EXTERNAL
	RHDMCENTR_MAVEN_REPO_ID	–	repo-rhdmcentr
	RHDMCENTR_MAVEN_REPO_SERVICE	–	`\${APPLICATION_NAME}`-rhdmcentr
	RHDMCENTR_MAVEN_REPO_PATH	–	/maven2/
	RHDMCENTR_MAVEN_REPO_USERNAME	Username to access the Maven service hosted by Decision Central inside EAP.	`\${DECISION_CENTRAL_MAVEN_USERNAME}`
	RHDMCENTR_MAVEN_REPO_PASSWORD	Default password used for multiple components for user convenience in this trial environment.	`\${DEFAULT_PASSWORD}`
	EXTERNAL_MAVEN_REPO_ID	The id to use for the maven repository, if set. Default is generated randomly.	`\${MAVEN_REPO_ID}`
	EXTERNAL_MAVEN_REPO_URL	Fully qualified URL to a Maven repository or service.	`\${MAVEN_REPO_URL}`
	EXTERNAL_MAVEN_REPO_USERNAME	Username to access the Maven repository, if required.	`\${MAVEN_REPO_USERNAME}`
	EXTERNAL_MAVEN_REPO_PASSWORD	Password to access the Maven repository, if required.	`\${MAVEN_REPO_PASSWORD}`
	SSO_URL	RH-SSO URL.	`\${SSO_URL}`

Deployment	Variable name	Description	Example value
	SSO_OPENIDCONNECT_DEPLOYMENTS	–	ROOT.war
	SSO_REALM	RH-SSO Realm name.	\${SSO_REALM}
	SSO_SECRET	KIE Server RH-SSO Client Secret.	\${KIE_SERVER_SSO_SECRET}
	SSO_CLIENT	KIE Server RH-SSO Client name.	\${KIE_SERVER_SSO_CLIENT}
	SSO_USERNAME	RH-SSO Realm Admin Username used to create the Client if it doesn't exist.	\${SSO_USERNAME}
	SSO_PASSWORD	RH-SSO Realm Admin Password used to create the Client.	\${SSO_PASSWORD}
	SSO_DISABLE_SSL_CERTIFICATE_VALIDATION	RH-SSO Disable SSL Certificate Validation.	\${SSO_DISABLE_SSL_CERTIFICATE_VALIDATION}
	SSO_PRINCIPAL_ATTRIBUTE	RH-SSO Principal Attribute to use as username.	\${SSO_PRINCIPAL_ATTRIBUTE}
	HOSTNAME_HTTP	Custom hostname for http service route. Leave blank for default hostname, e.g.: insecure-<application-name>-kieserver-<project>.<default-domain-suffix>	\${KIE_SERVER_HOSTNAME_HTTP}
	AUTH_LDAP_URL	LDAP Endpoint to connect for authentication.	\${AUTH_LDAP_URL}
	AUTH_LDAP_BIND_DN	Bind DN used for authentication.	\${AUTH_LDAP_BIND_DN}
	AUTH_LDAP_BIND_CREDENTIAL	LDAP Credentials used for authentication.	\${AUTH_LDAP_BIND_CREDENTIAL}

Deployment	Variable name	Description	Example value
	AUTH_LDAP_JAAS_SECURITY_DOMAIN	The JMX ObjectName of the JaasSecurityDomain used to decrypt the password.	`\${AUTH_LDAP_JAAS_SECURITY_DOMAIN}`
	AUTH_LDAP_BASE_CTX_DN	LDAP Base DN of the top-level context to begin the user search.	`\${AUTH_LDAP_BASE_CTX_DN}`
	AUTH_LDAP_BASE_FILTER	LDAP search filter used to locate the context of the user to authenticate. The input username or userDN obtained from the login module callback is substituted into the filter anywhere a {0} expression is used. A common example for the search filter is (uid={0}).	`\${AUTH_LDAP_BASE_FILTER}`
	AUTH_LDAP_SEARCH_SCOPE	The search scope to use.	`\${AUTH_LDAP_SEARCH_SCOPE}`
	AUTH_LDAP_SEARCH_TIME_LIMIT	The timeout in milliseconds for user or role searches.	`\${AUTH_LDAP_SEARCH_TIME_LIMIT}`
	AUTH_LDAP_DISTINGUISHED_NAME_ATTRIBUTE	The name of the attribute in the user entry that contains the DN of the user. This may be necessary if the DN of the user itself contains special characters, backslash for example, that prevent correct user mapping. If the attribute does not exist, the entry's DN is used.	`\${AUTH_LDAP_DISTINGUISHED_NAME_ATTRIBUTE}`

Deployment	Variable name	Description	Example value
	AUTH_LDAP_PARSE_USERNAME	A flag indicating if the DN is to be parsed for the username. If set to true, the DN is parsed for the username. If set to false the DN is not parsed for the username. This option is used together with <code>usernameBeginString</code> and <code>usernameEndString</code> .	<code>\${AUTH_LDAP_PARSE_USERNAME}</code>
	AUTH_LDAP_USERNAME_BEGIN_STRING	Defines the String which is to be removed from the start of the DN to reveal the username. This option is used together with <code>usernameEndString</code> and only taken into account if <code>parseUsername</code> is set to true.	<code>\${AUTH_LDAP_USERNAME_BEGIN_STRING}</code>
	AUTH_LDAP_USERNAME_END_STRING	Defines the String which is to be removed from the end of the DN to reveal the username. This option is used together with <code>usernameEndString</code> and only taken into account if <code>parseUsername</code> is set to true.	<code>\${AUTH_LDAP_USERNAME_END_STRING}</code>
	AUTH_LDAP_ROLE_ATTRIBUTE_ID	Name of the attribute containing the user roles.	<code>\${AUTH_LDAP_ROLE_ATTRIBUTE_ID}</code>
	AUTH_LDAP_ROLE_S_CTX_DN	The fixed DN of the context to search for user roles. This is not the DN where the actual roles are, but the DN where the objects containing the user roles are. For example, in a Microsoft Active Directory server, this is the DN where the user account is.	<code>\${AUTH_LDAP_ROLE_S_CTX_DN}</code>

Deployment	Variable name	Description	Example value
	AUTH_LDAP_ROLE_FILTER	A search filter used to locate the roles associated with the authenticated user. The input username or userDN obtained from the login module callback is substituted into the filter anywhere a {0} expression is used. The authenticated userDN is substituted into the filter anywhere a {1} is used. An example search filter that matches on the input username is (member={0}). An alternative that matches on the authenticated userDN is (member={1}).	`\${AUTH_LDAP_ROLE_FILTER}`
	AUTH_LDAP_ROLE_RECURSION	The number of levels of recursion the role search will go below a matching context. Disable recursion by setting this to 0.	`\${AUTH_LDAP_ROLE_RECURSION}`
	AUTH_LDAP_DEFAULT_ROLE	A role included for all authenticated users.	`\${AUTH_LDAP_DEFAULT_ROLE}`
	AUTH_LDAP_ROLE_NAME_ATTRIBUTE_ID	Name of the attribute within the roleCtxDN context which contains the role name. If the roleAttributesDN property is set to true, this property is used to find the role object's name attribute.	`\${AUTH_LDAP_ROLE_NAME_ATTRIBUTE_ID}`

Deployment	Variable name	Description	Example value
	AUTH_LDAP_PARSE_ROLE_NAME_FROM_DN	A flag indicating if the DN returned by a query contains the roleNameAttributeID. If set to true, the DN is checked for the roleNameAttributeID. If set to false, the DN is not checked for the roleNameAttributeID. This flag can improve the performance of LDAP queries.	`\${AUTH_LDAP_PARSE_ROLE_NAME_FROM_DN}`
	AUTH_LDAP_ROLE_ATTRIBUTE_IS_DN	Whether or not the roleAttributeID contains the fully-qualified DN of a role object. If false, the role name is taken from the value of the roleNameAttributeID attribute of the context name. Certain directory schemas, such as Microsoft Active Directory, require this attribute to be set to true.	`\${AUTH_LDAP_ROLE_ATTRIBUTE_IS_DN}`
	AUTH_LDAP_REFERRAL_USER_ATTRIBUTE_ID_TO_CHECK	If you are not using referrals, you can ignore this option. When using referrals, this option denotes the attribute name which contains users defined for a certain role, for example member, if the role object is inside the referral. Users are checked against the content of this attribute name. If this option is not set, the check will always fail, so role objects cannot be stored in a referral tree.	`\${AUTH_LDAP_REFERRAL_USER_ATTRIBUTE_ID_TO_CHECK}`

Deployment	Variable name	Description	Example value
	AUTH_ROLE_MAPPER_ROLES_PROPERTIES	When present, the RoleMapping Login Module will be configured to use the provided file. This parameter defines the fully-qualified file path and name of a properties file or resource which maps roles to replacement roles. The format is original_role=role1,role2,role3	`\${AUTH_ROLE_MAPPER_ROLES_PROPERTIES}`
	AUTH_ROLE_MAPPER_REPLACE_ROLE	Whether to add to the current roles, or replace the current roles with the mapped ones. Replaces if set to true.	`\${AUTH_ROLE_MAPPER_REPLACE_ROLE}`
	FILTERS	–	AC_ALLOW_ORIGIN,AC_ALLOW_METHODS,AC_ALLOW_HEADERS,AC_ALLOW_CREDENTIALS,AC_MAX_AGE
	AC_ALLOW_ORIGIN_FILTER_RESPONSE_HEADER_NAME	–	Access-Control-Allow-Origin
	AC_ALLOW_ORIGIN_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Allow-Origin response header value in the KIE Server (useful for CORS support).	`\${KIE_SERVER_ACCESS_CONTROL_ALLOW_ORIGIN}`
	AC_ALLOW_METHODS_FILTER_RESPONSE_HEADER_NAME	–	Access-Control-Allow-Methods
	AC_ALLOW_METHODS_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Allow-Methods response header value in the KIE Server (useful for CORS support).	`\${KIE_SERVER_ACCESS_CONTROL_ALLOW_METHODS}`

Deployment	Variable name	Description	Example value
	AC_ALLOW_HEADERS_FILTER_RESPONSE_HEADER_NAME	–	Access-Control-Allow-Headers
	AC_ALLOW_HEADERS_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Allow-Headers response header value in the KIE Server (useful for CORS support).	`\${KIE_SERVER_ACCESS_CONTROL_ALLOW_HEADERS}`
	AC_ALLOW_CREDENTIALS_FILTER_RESPONSE_HEADER_NAME	–	Access-Control-Allow-Credentials
	AC_ALLOW_CREDENTIALS_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Allow-Credentials response header value in the KIE Server (useful for CORS support).	`\${KIE_SERVER_ACCESS_CONTROL_ALLOW_CREDENTIALS}`
	AC_MAX_AGE_FILTER_RESPONSE_HEADER_NAME	–	Access-Control-Max-Age
	AC_MAX_AGE_FILTER_RESPONSE_HEADER_VALUE	Sets the Access-Control-Max-Age response header value in the KIE Server (useful for CORS support).	`\${KIE_SERVER_ACCESS_CONTROL_MAX_AGE}`

4.1.2.4. External Dependencies

4.1.2.4.1. Secrets

This template requires the following secrets to be installed for the application to run.

4.2. OPENSIFT USAGE QUICK REFERENCE

To deploy, monitor, manage, and undeploy Red Hat Decision Manager templates on Red Hat OpenShift Container Platform, you can use the OpenShift Web console or the **oc** command.

For instructions about using the Web console, see [Create and build an image using the Web console](#) .

For detailed instructions about using the **oc** command, see [CLI Reference](#). The following commands are likely to be required:

- To create a project, use the following command:

```
$ oc new-project <project-name>
```

For more information, see [Creating a project using the CLI](#).

- To deploy a template (create an application from a template), use the following command:

```
$ oc new-app -f <template-name> -p <parameter>=<value> -p <parameter>=<value> ...
```

For more information, see [Creating an application using the CLI](#).

- To view a list of the active pods in the project, use the following command:

```
$ oc get pods
```

- To view the current status of a pod, including information whether or not the pod deployment has completed and it is now in a running state, use the following command:

```
$ oc describe pod <pod-name>
```

You can also use the **oc describe** command to view the current status of other objects. For more information, see [Application modification operations](#).

- To view the logs for a pod, use the following command:

```
$ oc logs <pod-name>
```

- To view deployment logs, look up a **DeploymentConfig** name in the template reference and enter the following command:

```
$ oc logs -f dc/<deployment-config-name>
```

For more information, see [Viewing deployment logs](#).

- To view build logs, look up a **BuildConfig** name in the template reference and enter the command:

```
$ oc logs -f bc/<build-config-name>
```

For more information, see [Accessing build logs](#).

- To scale a pod in the application, look up a **DeploymentConfig** name in the template reference and enter the command:

```
$ oc scale dc/<deployment-config-name> --replicas=<number>
```

For more information, see [Manual scaling](#).

- To undeploy the application, you can delete the project by using the command:

```
$ oc delete project <project-name>
```

Alternatively, you can use the **oc delete** command to remove any part of the application, such as a pod or replication controller. For details, see [Application modification operations](#).

APPENDIX A. VERSIONING INFORMATION

Documentation last updated on Monday, March 01, 2021.