



# Red Hat CloudForms 4.5

## Release Notes

Summary of new features, corrections, and known bugs for Red Hat CloudForms Management Engine 5.8



# Red Hat CloudForms 4.5 Release Notes

---

Summary of new features, corrections, and known bugs for Red Hat CloudForms Management Engine 5.8

Red Hat CloudForms Documentation Team  
cloudforms-docs@redhat.com

## Legal Notice

Copyright © 2018 Red Hat, Inc.

The text of and illustrations in this document are licensed by Red Hat under a Creative Commons Attribution–Share Alike 3.0 Unported license ("CC-BY-SA"). An explanation of CC-BY-SA is available at

<http://creativecommons.org/licenses/by-sa/3.0/>

. In accordance with CC-BY-SA, if you distribute this document or an adaptation of it, you must provide the URL for the original version.

Red Hat, as the licensor of this document, waives the right to enforce, and agrees not to assert, Section 4d of CC-BY-SA to the fullest extent permitted by applicable law.

Red Hat, Red Hat Enterprise Linux, the Shadowman logo, JBoss, OpenShift, Fedora, the Infinity logo, and RHCE are trademarks of Red Hat, Inc., registered in the United States and other countries.

Linux ® is the registered trademark of Linus Torvalds in the United States and other countries.

Java ® is a registered trademark of Oracle and/or its affiliates.

XFS ® is a trademark of Silicon Graphics International Corp. or its subsidiaries in the United States and/or other countries.

MySQL ® is a registered trademark of MySQL AB in the United States, the European Union and other countries.

Node.js ® is an official trademark of Joyent. Red Hat Software Collections is not formally related to or endorsed by the official Joyent Node.js open source or commercial project.

The OpenStack ® Word Mark and OpenStack logo are either registered trademarks/service marks or trademarks/service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation, or the OpenStack community.

All other trademarks are the property of their respective owners.

## Abstract

A summary of enhancements, known bugs, and support information for Red Hat CloudForms 4.5. If you have a suggestion for improving this guide or have found an error, please submit a Bugzilla report at <http://bugzilla.redhat.com> against Red Hat CloudForms Management Engine for the Documentation component. Please provide specific details, such as the section number, guide name, and CloudForms version so we can easily locate the content.

# Table of Contents

<b>1. INTRODUCTION</b>	<b>3</b>
1.1. Important Changes	3
1.2. Getting Support	3
1.3. Red Hat CloudForms Life Cycle	3
<b>2. MIGRATION CONSIDERATIONS</b>	<b>3</b>
2.1. Migrating to a New Appliance	3
2.2. Migrating on the same appliance	4
<b>3. TECHNOLOGY PREVIEW</b>	<b>4</b>
<b>4. ENHANCEMENTS</b>	<b>5</b>
4.1. Ansible Inside	5
4.2. Providers	5
<b>5. KNOWN ISSUES</b>	<b>6</b>
<b>6. DEPRECATED FUNCTIONALITY</b>	<b>8</b>
<b>7. CHANGING THE USER INTERFACE LOCALE</b>	<b>8</b>
<b>8. CHANGES IN THE CORE SET OF RUBY GEMS</b>	<b>9</b>
8.1. Red Hat CloudForms 4.5.0	9
8.1.1. New Ruby Gems in Red Hat CloudForms 4.5.0	9
8.1.2. Updated Ruby Gems in Red Hat CloudForms 4.5.0	10
8.1.3. Removed Ruby Gems in Red Hat CloudForms 4.5.0	12
8.2. Red Hat CloudForms 4.5.1	13
8.2.1. New Ruby Gems in Red Hat CloudForms 4.5.1	13
8.2.2. Updated Ruby Gems in Red Hat CloudForms 4.5.1	13
8.2.3. Removed Ruby Gems in Red Hat CloudForms 4.5.1	13
8.3. Red Hat CloudForms 4.5.2	13
8.3.1. New Ruby Gems in Red Hat CloudForms 4.5.2	14
8.3.2. Updated Ruby Gems in Red Hat CloudForms 4.5.2	14
8.3.3. Removed Ruby Gems in Red Hat CloudForms 4.5.2	14
8.4. Red Hat CloudForms 4.5.3	14
8.4.1. New Ruby Gems in Red Hat CloudForms 4.5.3	14
8.4.2. Updated Ruby Gems in Red Hat CloudForms 4.5.3	14
8.4.3. Removed Ruby Gems in Red Hat CloudForms 4.5.3	15
8.5. Red Hat CloudForms 4.5.4	15
8.5.1. New Ruby Gems in Red Hat CloudForms 4.5.4	15
8.5.2. Updated Ruby Gems in Red Hat CloudForms 4.5.4	15
8.5.3. Removed Ruby Gems in Red Hat CloudForms 4.5.4	15
8.6. Red Hat CloudForms 4.5.5	15
8.6.1. New Ruby Gems in Red Hat CloudForms 4.5.5	16
8.6.2. Updated Ruby Gems in Red Hat CloudForms 4.5.5	16
8.6.3. Removed Ruby Gems in Red Hat CloudForms 4.5.5	16
<b>9. TECHNICAL NOTES</b>	<b>17</b>
9.1. Red Hat CloudForms 4.5.0	17
9.1.1. RHSA-2017-1367: CFME 5.8.0 Bug Fixes and Enhancement Update	17
9.1.1.1. Appliance	17
9.1.1.2. Providers	17
9.1.1.3. Vulnerability	17
9.1.2. RHBA-2017-1366: CFME 5.8.0 Images for OpenShift	18

9.1.3. RHBA-2017-1650: Updated CFME 5.8.0 container images	18
9.2. Red Hat CloudForms 4.5.1	18
9.2.1. RHBA-2017-1757: CFME 5.8.1 images for OpenShift	18
9.2.2. RHSA-2017-1758: CFME 5.8.1 Security, Bug Fixes and Enhancement Update	18
9.2.2.1. Providers	18
9.3. Red Hat CloudForms 4.5.2	18
9.3.1. RHBA-2017-3006: CFME 5.8.2 Images for OpenShift.	19
9.3.2. RHSA-2017-3005: CFME 5.8 Red Hat CloudForms security, bug fix, and enhancement update.	19
9.4. Red Hat CloudForms 4.5.3	19
9.4.1. RHBA-2018-0373: CFME 5.8.3 images for OpenShift	19
9.4.2. RHSA-2018-0374: CFME 5.8.3 security, bug fix, and enhancement update	19
9.4.2.1. Core	19
9.4.2.2. Vulnerability	19
9.5. Red Hat CloudForms 4.5.5	19
9.5.1. RHBA-2018-2744: CFME 5.8.5 bug fix and enhancement update for OpenShift images	19
9.5.2. RHSA-2018-2745: CFME 5.8.5 Bug Fixes and Enhancement Update	19
9.5.2.1. Provisioning	19
9.5.2.2. Vulnerability	20

# 1. INTRODUCTION

Red Hat CloudForms Management Engine (CFME) delivers the insight, control, and automation enterprises need to address the challenges of managing virtual environments, which are far more complex than physical ones. This technology enables enterprises with existing virtual infrastructures to improve visibility and control, and those just starting virtualization deployments to build and operate a well-managed virtual infrastructure.

Red Hat CloudForms 4.5 is comprised of a single component, the CloudForms Management Engine. It has the following feature sets:

- Insight: Discovery, Monitoring, Utilization, Performance, Reporting, Analytics, Chargeback, and Trending.
- Control: Security, Compliance, Alerting, Policy-Based Resource and Configuration Management.
- Automate: IT Process, Task and Event, Provisioning, Workload Management and Orchestration.
- Integrate: Systems Management, Tools and Processes, Event Consoles, CMDB, RBA, and Web Services.

## 1.1. Important Changes

Beginning in this release of Red Hat CloudForms, the minimum amount of memory for each instance has been raised from 8Gb to 12Gb. This change affects the resources required for side-by-side upgrades.

## 1.2. Getting Support

If you experience difficulty with a procedure described in this documentation, visit the Red Hat Customer Portal at <http://access.redhat.com>. Through the customer portal, you can:

- Search or browse through a knowledgebase of technical support articles about Red Hat products
- Submit a support case to Red Hat Global Support Services (GSS)
- Access other product documentation

Red Hat also hosts a large number of electronic mailing lists for discussion of Red Hat software and technology. You can find a list of publicly available mailing lists at <https://www.redhat.com/mailman/listinfo>. Click on the name of any mailing list to subscribe to that list or to access the list archives.

## 1.3. Red Hat CloudForms Life Cycle

For an overview of the life cycle phases for Red Hat CloudForms and the status of support for this product, see [Red Hat Cloudforms Life Cycle](#).

# 2. MIGRATION CONSIDERATIONS

## 2.1. Migrating to a New Appliance

If you are migrating from an existing appliance to a new one, the target appliance must be able to accommodate the new 12Gb resource profile used by Red Hat CloudForms 4.5, even if the source appliance only uses 8Gb.

## 2.2. Migrating on the same appliance

If you are migrating from a previous version of Red Hat CloudForms to Red Hat CloudForms 4.5 using the same appliance, the resource profile will remain the same. Before installing or starting any providers, however, you must assess your memory needs and adjust the resource profile accordingly to avoid performance issues.

## 3. TECHNOLOGY PREVIEW

The following enhancements are available in release of Red Hat CloudForms as technology preview only.



### NOTE

For more information on the support scope for features marked as technology previews, see [Technology Preview Features Support Scope](#)

### Integration with ServiceNow CMDB

You can integrate Red Hat CloudForms into ServiceNow to enable authentication with an existing ServiceNow database and add/amend items in the ServiceNow database during state machine processing, such as the virtual machine provisioning state machine.

### Red Hat Insights Plug-In

You can access Red Hat Insights directly from the Red Hat CloudForms appliance web user interface. Red Hat Insights is an automated service that provides information that helps you to rapidly identify key issues in your Red Hat CloudForms deployment.

### CloudForms Container Image

Red Hat CloudForms is available as a container image in docker format from <https://registry.access.redhat.com>. With this container image, you can now host Red Hat CloudForms on the following platforms:

- Red Hat Atomic Host (7.2 or higher)
- Red Hat Enterprise Linux (7.2 or higher)
- Anywhere using docker

### Middleware Providers

Red Hat CloudForms supports Hawkular middleware providers. The following capabilities are available for middleware providers:

- Inventory
- Metrics
- Events
- Cross-linked relationships
- Topology view of middleware inventory



- Power operations on EAP servers
- Deployment operations on middleware servers
- Datasource operations on middleware servers

## 4. ENHANCEMENTS

The following enhancements are available with Red Hat CloudForms 4.5 (CFME 5.8).

### 4.1. Ansible Inside

Ansible integrates with Red Hat CloudForms to provide automation solutions, using Playbooks, for Service, Policy and Alert actions. Ansible Playbooks consist of series of *plays* or tasks that define automation across a set of hosts, known as the inventory.

Ranging from simple to complex tasks, Ansible Playbooks can support cloud management:

- **Services** - allow a Playbook to back a CloudForms service catalog item.
- **Control Actions** - CloudForms policies can execute Playbooks as actions based on events from providers.
- **Control Alerts** - set a Playbook to launch prompted by a CloudForms alert.

### 4.2. Providers

The following section outlines enhancements to providers.

#### Amazon AWS Storage

This release of Red Hat CloudForms adds Amazon Elastic Block Store (Amazon EBS) to CloudForms that provides persistent block storage volumes for use with Amazon EC2 instances. This includes breaking out AWS storage as its own provider, with the following capabilities:

- **Inventory:** Add a new Amazon EBS provider as part of an Amazon EC2 account with the ability to see the inventory, including all volumes associated to the Amazon EC2 account and the relationships to EC2 instances.
- **CloudWatch event integration:** AWS storage adds the ability to use CloudWatch for events (instead of metrics).
- **Provisioning:** Ability to provision EBS volumes in an Amazon EC2 account.

#### OpenShift Container Platform

This release of Red Hat CloudForms contains the following new features and enhancements for OpenShift Container Platform providers:

- **Live ad-hoc metrics:** CloudForms can query Heapster metrics from the user interface, and graph metrics from the last Hawkular collection.
- **Inventory update:** CloudForms shows relationships between containers and persistent volumes.
- **Roles:** Operator and Administrator roles have been added for container management.

- Dashboard widgets and reporting: CloudForms includes OpenShift Container Platform dashboard widgets, and more reporting out of the box.
- SSL support is included to connect to OpenShift Container Platform providers securely. As SSL authentication is now selected by default, after upgrading to CloudForms 4.5, any existing OpenShift providers must be edited to select the authentication method and specify a certificate. See [Section 5, “Known Issues”](#) and [Editing a Containers Provider](#) in *Managing Providers* for details.

## OpenStack Cloud

This release of Red Hat CloudForms contains the following new features and enhancements for OpenStack cloud providers:

- Tenant and user mapping: Tenant to object relationships (network and storage) are retained when syncing tenants between OpenStack and CloudForms.
- Tasks and notifications: OpenStack day two operations tasks are shown in the Tasks area of the user interface, while asynchronous tasks use notifications.
- Ceilometer eventing: Ceilometer’s eventing technology is replaced by Panko.
- Networking: The inventory of OpenStack floating IPs are now collected and updated in the VMDB.

## Middleware Management

This release of Red Hat CloudForms contains the following new features and enhancements for Middleware Management providers:

- Ability to limit Red Hat JBoss Enterprise Application Platform server operations.
- Ability to show an event when a new JBoss EAP server is connected.
- Ability to show relationships in JBoss EAP server summary page and in Topology view, if CloudForms is monitoring OpenShift and JBoss EAP servers.
- SSL support included to connect the middleware provider.

## Red Hat Virtualization

This release of Red Hat CloudForms contains the following new features and enhancements for Red Hat Virtualization providers:

- SSL/TLS support is included to connect to Red Hat Virtualization providers securely. As TLS certificate verification is now selected by default, after upgrading to CloudForms 4.5, any existing Red Hat Virtualization providers must be edited to select the authentication method and specify a certificate. See [Section 5, “Known Issues”](#) and [Red Hat Enterprise Virtualization Manager Providers](#) in *Managing Providers* for details.

# 5. KNOWN ISSUES

These known issues exist in Red Hat CloudForms at this time:

[BZ#1480629](#)

At current, all EBS Storage Managers are deleted from Red Hat CloudForms after migrating from Red Hat CloudForms 4.2 to Red Hat CloudForms 4.5. To resolve this issue, run the following command on the rails

console:

```
ManageIQ::Providers::CloudManager.all.each { |x| x.send(:ensure_managers); x.save!; }
```

This action is not necessary when upgrading from Red Hat CloudForms 4.5 or later.

#### BZ#1455063

At current, there is a potential race condition that can occur when the Embedded Ansible role is enabled for the first time. When the worker is started for the first time, Ansible must be set up and configured on the appliance. As part of this process, the Ansible services are restarted. There is a small chance that these services are still in the process of restarting when the initial setup and configuration completes. When this happens, the worker encounters failures while communicating with Embedded Ansible, causing the worker to exit and restart. It may go through several iterations of this before the worker properly starts and comes online. Due to this issue, it can take up to 30 minutes for Embedded Ansible services to be fully online, resulting in the Embedded Ansible role being active and the worker in the started state, but the services not being available.

As a workaround, wait for embedded Ansible to come online. This can take up to approximately 30 minutes. The other option is to restart EVM on the affected appliance.

#### BZ#1454884

At current, upgrading from Red Hat CloudForms 4.1 or Red Hat CloudForms 4.2 to Red Hat CloudForms 4.5 might result in a disk space error when running *yum update* after enabling the repositories for the Red Hat CloudForms 4.5 release. As a workaround, adjust the size of the partitions on the appliance to ensure there is sufficient disk space available. See [Resizing the Disk Space](#) in *Migrating to Red Hat CloudForms 4.5* for more details.

#### BZ#1435468

Certain users (MIQ LDAP - OpenLDAP) with special attributes are unable to log in to the Red Hat CloudForms Services User Interface.

Steps to Reproduce:

1. Configure MIQ LDAP - OpenLDAP provider
2. Navigate to self-service UI and try to log in.

Result: The user is unable to log in and there is not an error message to let the user know that they are not able to log in.

#### BZ#1429891

The addition of default SSL authentication for OpenShift Container Platform and Red Hat Virtualization providers may break existing connections to these providers after upgrading to Red Hat CloudForms 4.5.

If an existing provider has a valid SSL certificate signed by a trusted Certificate Authority, CloudForms automatically authenticates to it, with no further action needed. However, if an existing provider has a self-signed SSL certificate, the Schedule Worker or an attempt to collect inventory will render the provider connection invalid.

A broken connection is indicated by an authentication status error, or an error similar to "Credential validation was not successful:SSL\_connect\_returned=1 errno=0 state=SSlv3 read server certificate B:certificate verify failed".

To fix this issue, edit the provider's connection details to configure a certificate authority to trust, or disable SSL certificate validation (not recommended) for that provider. See [Managing Providers](#) for details on editing providers.

BZ#[1404354](#)

At current, connecting to virtual machines using HTML5 console access inconsistently fails. This is due to an issue in the underlying Apache web server related to web socket connections, which are used for remote console access to virtual machines. As a workaround, retry the connection. In the event that the connection fails again, wait a minute and retry again. This issue is currently being investigated by engineering.

BZ#[1274376](#)

This release of Red Hat CloudForms corrects a delay between enabling the SmartProxy server role, and its visibility to users in the UI when SmartProxoy Affinity is selected under Zones.

## 6. DEPRECATED FUNCTIONALITY

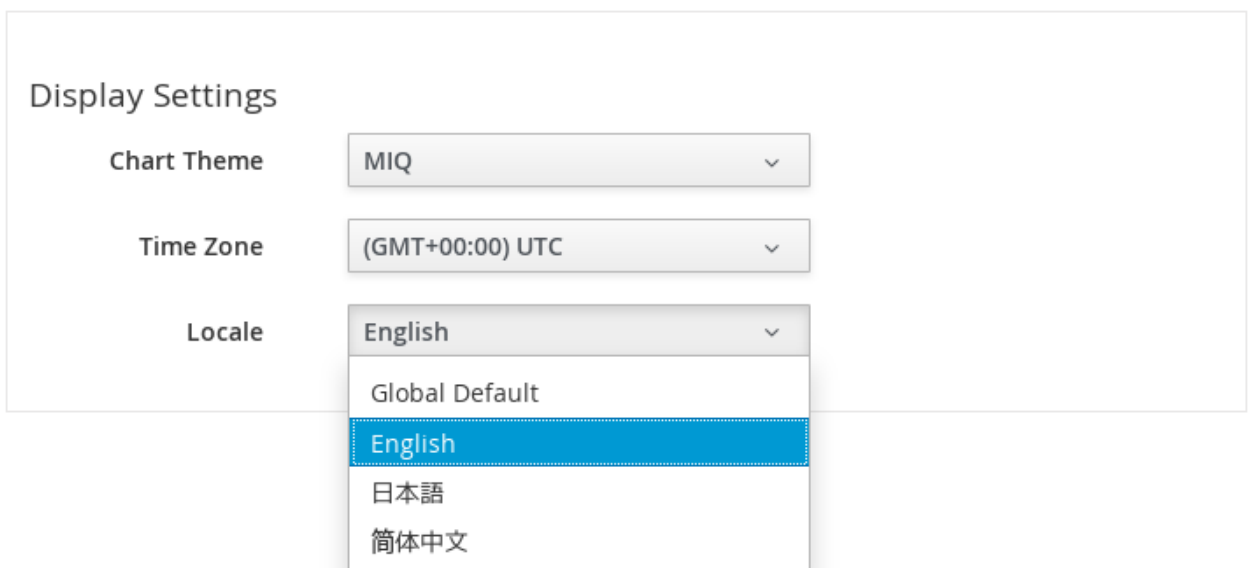
The following are deprecated with Red Hat CloudForms 4.5 (CFME 5.8).

- Internet Explorer 10 is no longer supported for all user interfaces in Red Hat CloudForms 4.5.
- Due to VMware licensing restrictions we are not able to ship with WebMKS starting in version 4.5.3. However, it can be easily added to the UI appliances by following the steps in this documentation. <https://access.redhat.com/solutions/3376081>

## 7. CHANGING THE USER INTERFACE LOCALE

You can use this procedure to change the user interface locale to specify either English, Japanese, or Simplified Chinese.

1. Navigate to **Settings** → **My Settings** from the navigation bar.
2. From the **Locale** list in the **Display Settings** area, select the user interface locale to specify either **English**, **日本語**, or **简体中文**.



3. You can also change the time zone from the **Time Zone** list as required. The default is **(GMT+00:00) UTC**.
4. Click **Save**.

## 8. CHANGES IN THE CORE SET OF RUBY GEMS

Users of Red Hat CloudForms can construct custom automation methods in Ruby to extend the product. Red Hat CloudForms ships with a core set of Ruby gems used by the CloudForms Management Engine (CFME) Rails Application. The Ruby gems in this set are subject to change, and have changed since the previous release. If you are calling gems using Automate that are no longer in the CloudForms Management Engine Appliance, you can install them by using the **gem install** command.

While gems can be imported into automation methods using **require**, it is recommended that the authors of the automation methods clearly document the use of gems either in the core set or a custom set. It is the responsibility of the author of such custom automation to own the life cycle of any gem being referenced in those methods.

You can find a list of all gems included in the appliance in `/var/www/miq/vmdb/log/gem_list.txt`

To get lists of all gems for different CloudForms Management Engine releases, see the following resource:

- <https://access.redhat.com/articles/1534753>

### 8.1. Red Hat CloudForms 4.5.0

This section outlines the changes to the core set of Ruby gems included in this release in comparison to the Ruby gems included in Red Hat CloudForms 4.2.2. This is the latest version of Red Hat CloudForms 4.2 as of the release of Red Hat CloudForms 4.5.0.

#### 8.1.1. New Ruby Gems in Red Hat CloudForms 4.5.0

The following Ruby gems have been added:

**Table 1. New Ruby Gems in Red Hat CloudForms 4.5.0**

Ruby Gem	Version in Red Hat CloudForms 4.5.0
aws-sigv4	1.0.0
macaddr	1.7.1
manageiq-content	0.1.0
manageiq-gems-pending	0.1.0
manageiq-providers-azure	0.1.0
manageiq-providers-lenovo	0.2.0
manageiq-providers-vmware	0.1.0

Ruby Gem	Version in Red Hat CloudForms 4.5.0
manageiq-ui-classic	0.1.0
pg-pglogical	1.1.0
systemu	2.6.5
uuid	2.3.8
xclarity_client	0.4.1

### 8.1.2. Updated Ruby Gems in Red Hat CloudForms 4.5.0

The following Ruby gems have been updated:

**Table 2. Updated Ruby Gems in Red Hat CloudForms 4.5.0**

Ruby Gem	Version in Red Hat CloudForms 4.5.0
actioncable	5.0.3
actionmailer	5.0.3
actionpack	5.0.3
actionview	5.0.3
activejob	5.0.3
activemodel	5.0.3
activerecord	5.0.3
activesupport	5.0.3
amq-protocol	2.2.0
ansible_tower_client	0.12.2
autoprefixer-rails	7.1.1
aws-sdk	2.8.14
aws-sdk-core	2.8.14
aws-sdk-resources	2.8.14

Ruby Gem	Version in Red Hat CloudForms 4.5.0
azure-armrest	0.7.0
bundler	1.15.0
coffee-rails	4.2.2
fog-core	1.44.3
globalid	0.4.0
hawkular-client	3.0.1
high_voltage	3.0.0
http-form_data	1.0.3
linux_admin	0.20.1
logging	2.2.2
mail	2.6.5
memoist	0.15.0
minitest	5.10.2
oauth	0.5.3
ovirt	0.17.0
patternfly-sass	3.23.2
pkg-config	1.1.9
rack	2.0.3
rails	5.0.3
rails-controller-testing	1.0.2
rails-dom-testing	2.0.3
rails-i18n	5.0.4
railties	5.0.3

Ruby Gem	Version in Red Hat CloudForms 4.5.0
rake	12.0.0
rbvmomi	1.9.5
responders	2.4.0
rest-client	2.0.2
ruby_parser	3.9.0
rubyntlm	0.6.2
sass	3.4.24
sexp_processor	4.9.0
winrm	2.2.3
winrm-elevated	1.0.1
winrm-fs	1.0.1

### 8.1.3. Removed Ruby Gems in Red Hat CloudForms 4.5.0

The following Ruby gems have been removed:

**Table 3. Removed Ruby Gems in Red Hat CloudForms 4.5.0**

Ruby Gem
activemodel-serializers-xml
angular-ui-bootstrap-rails
cache
cache_method
climate_control
cocaine
draper
ezcrypto



Ruby Gem
mimemagic
outfielding-jqplot-rails
paperclip
request_store

## 8.2. Red Hat CloudForms 4.5.1

This section outlines the changes to the core set of Ruby gems included in this release.

### 8.2.1. New Ruby Gems in Red Hat CloudForms 4.5.1

No Ruby gems were added to the appliance in Red Hat CloudForms 4.5.1.

### 8.2.2. Updated Ruby Gems in Red Hat CloudForms 4.5.1

The following Ruby gems have been updated:

**Table 4. Updated Ruby Gems in Red Hat CloudForms 4.5.1**

Ruby Gem	Version in Red Hat CloudForms 4.5.1
azure-armrest	0.7.4
bundler	1.15.3
kubeclient	2.4.0
linux_admin	0.20.2

### 8.2.3. Removed Ruby Gems in Red Hat CloudForms 4.5.1

The following Ruby gems have been removed:

**Table 5. Removed Ruby Gems in Red Hat CloudForms 4.5.1**

Ruby Gem
pkg-config

## 8.3. Red Hat CloudForms 4.5.2

This section outlines the changes to the core set of Ruby gems included in this release.

### 8.3.1. New Ruby Gems in Red Hat CloudForms 4.5.2

No Ruby gems were added to the appliance in Red Hat CloudForms 4.5.2.

### 8.3.2. Updated Ruby Gems in Red Hat CloudForms 4.5.2

The following Ruby gems have been updated:

**Table 6. Updated Ruby Gems in Red Hat CloudForms 4.5.2**

Ruby Gem	Version in Red Hat CloudForms 4.5.2
azure-armrest	0.9.1
bundler	1.15.4
linux_admin	1.0.0
mini_portile2	2.3.0
ovirt	0.18.0
parallel	1.12.0

### 8.3.3. Removed Ruby Gems in Red Hat CloudForms 4.5.2

No Ruby gems were removed from the appliance in Red Hat CloudForms 4.5.2.

## 8.4. Red Hat CloudForms 4.5.3

This section outlines the changes to the core set of Ruby gems included in this release.

### 8.4.1. New Ruby Gems in Red Hat CloudForms 4.5.3

No Ruby gems were added to the appliance in Red Hat CloudForms 4.5.3.

### 8.4.2. Updated Ruby Gems in Red Hat CloudForms 4.5.3

The following Ruby gems have been updated:

**Table 7. Updated Ruby Gems in Red Hat CloudForms 4.5.3**

Ruby Gem	Version in Red Hat CloudForms 4.5.3
azure-armrest	0.9.5
fog-openstack	0.1.22
linux_admin	1.0.1

Ruby Gem	Version in Red Hat CloudForms 4.5.3
ovirt	0.18.1

### 8.4.3. Removed Ruby Gems in Red Hat CloudForms 4.5.3

No Ruby gems were removed from the appliance in Red Hat CloudForms 4.5.3.

## 8.5. Red Hat CloudForms 4.5.4

This section outlines the changes to the core set of Ruby gems included in this release.

### 8.5.1. New Ruby Gems in Red Hat CloudForms 4.5.4

The following Ruby gems have been added:

**Table 8. New Ruby Gems in Red Hat CloudForms 4.5.4**

Ruby Gem	Version in Red Hat CloudForms 4.5.4
public_suffix	3.0.2

### 8.5.2. Updated Ruby Gems in Red Hat CloudForms 4.5.4

The following Ruby gems have been updated:

**Table 9. Updated Ruby Gems in Red Hat CloudForms 4.5.4**

Ruby Gem	Version in Red Hat CloudForms 4.5.4
addressable	2.5.2
azure-armrest	0.9.10
manageiq-api-client	0.3.0
more_core_extensions	3.6.0
ovirt_metrics	2.0.0
pg-pglogical	1.1.1

### 8.5.3. Removed Ruby Gems in Red Hat CloudForms 4.5.4

No Ruby gems were removed from the appliance in Red Hat CloudForms 4.5.4.

## 8.6. Red Hat CloudForms 4.5.5

This section outlines the changes to the core set of Ruby gems included in this release.

### 8.6.1. New Ruby Gems in Red Hat CloudForms 4.5.5

The following Ruby gems have been added:

**Table 10. New Ruby Gems in Red Hat CloudForms 4.5.5**

Ruby Gem	Version in Red Hat CloudForms 4.5.5
declarative	0.0.10
declarative-option	0.1.0
mime-types-data	3.2018.0812
representable	3.0.4
uber	0.1.0

### 8.6.2. Updated Ruby Gems in Red Hat CloudForms 4.5.5

The following Ruby gems have been updated:

**Table 11. Updated Ruby Gems in Red Hat CloudForms 4.5.5**

Ruby Gem	Version in Red Hat CloudForms 4.5.5
fog-google	1.5.0
google-api-client	0.23.9
httpclient	2.8.3
mime-types	3.2.2
retriable	3.1.2
signet	0.9.1
sprockets	3.7.2

### 8.6.3. Removed Ruby Gems in Red Hat CloudForms 4.5.5

The following Ruby gems have been removed:

**Table 12. Removed Ruby Gems in Red Hat CloudForms 4.5.5**

**Ruby Gem**

autoparse

extlib

launchy

## 9. TECHNICAL NOTES

This chapter contains the summary text for bug fixes and enhancements in Red Hat CloudForms errata advisories. The information and procedures in this chapter are relevant to Red Hat CloudForms administrators.

### 9.1. Red Hat CloudForms 4.5.0

#### 9.1.1. RHSA-2017-1367: CFME 5.8.0 Bug Fixes and Enhancement Update

The bugs contained in this section are addressed by advisory RHSA-2017:1367. Further information about this advisory is available at <https://access.redhat.com/errata/RHSA-2017:1367.html>.

##### 9.1.1.1. Appliance

BZ#[1442888](#)

This release of CloudForms corrects a configuration issue whereby the self-service UI did not time out when a custom session timeout was reached. Inactive users in the self-service UI will now be logged out when the established session time has expired.

##### 9.1.1.2. Providers

BZ#[1442768](#)

Previously when upgrading Red Hat Virtualization providers from versions 3.x to 4.x, CloudForms sometimes attempted to access the Red Hat Virtualization API at /api, which caused provider refresh failures. To avoid this issue, the API path has been updated in this CloudForms release to use /ovirt-engine/api instead of /api. As a result, CloudForms connects to Red Hat Virtualization 3.5 and newer providers successfully; however, Red Hat Virtualization 3.4 environments are no longer supported.

##### 9.1.1.3. Vulnerability

BZ#[1341308](#)

CloudForms includes a default SSL/TLS certificate for the web server. This certificate is replaced at install time, however if an attacker were able to man-in-the-middle an administrator while installing the new certificate the attacker could get a copy of the private key uploaded allowing for future attacks.

BZ#[1429632](#)

It was found that CloudForms does not verify that the server hostname matches the domain name in the

certificate when using a custom CA and communicating with RHEV and OpenShift. This would allow an attacker to spoof RHEV or OpenShift systems and potentially harvest sensitive information from CloudForms.

### 9.1.2. RHBA-2017-1366: CFME 5.8.0 Images for OpenShift

The bugs contained in this section are addressed by advisory RHBA-2017:1366. Further information about this advisory is available at <https://access.redhat.com/errata/RHBA-2017:1366.html>.

### 9.1.3. RHBA-2017-1650: Updated CFME 5.8.0 container images

Information about this advisory is available at <https://access.redhat.com/errata/RHBA-2017:1650.html>.

## 9.2. Red Hat CloudForms 4.5.1

### 9.2.1. RHBA-2017-1757: CFME 5.8.1 images for OpenShift

Information about this advisory is available at <https://access.redhat.com/errata/RHBA-2017:1757.html>.

### 9.2.2. RHSA-2017-1758: CFME 5.8.1 Security, Bug Fixes and Enhancement Update

The bugs contained in this section are addressed by advisory RHSA-2017:1758. Further information about this advisory is available at <https://access.redhat.com/errata/RHSA-2017:1758.html>.

#### 9.2.2.1. Providers

BZ#[1468275](#)

This release of Red Hat CloudForms includes an enhancement to event switchboard configuration for Amazon EBS volumes and snapshot events that triggers a storage manager refresh upon receiving the events.

The following two CloudWatch event rules were configured on the AWS console to fire the EBS events using the CloudWatch service. The configuration parameters for each event are as follows:

Service Name - EC2  
Event Type - EBS Volume Notification  
Target - SNS Topic  
Topic - AWSConfig\_topic

and

Service Name - EC2  
Event Type - EBS Snapshot Notification  
Target - SNS Topic  
Topic - AWSConfig\_topic

See <https://docs.aws.amazon.com/AmazonCloudWatch/latest/events/WhatIsCloudWatchEvents.html> for more information on Amazon CloudWatch events.

## 9.3. Red Hat CloudForms 4.5.2

### 9.3.1. RHBA-2017-3006: CFME 5.8.2 Images for OpenShift.

Information about this advisory is available at <https://access.redhat.com/errata/RHBA-2017:3006.html>.

### 9.3.2. RHSA-2017-3005: CFME 5.8 Red Hat CloudForms security, bug fix, and enhancement update.

Information about this advisory is available at <https://access.redhat.com/errata/RHSA-2017:3005.html>.

## 9.4. Red Hat CloudForms 4.5.3

### 9.4.1. RHBA-2018-0373: CFME 5.8.3 images for OpenShift

Information about this advisory is available at <https://access.redhat.com/errata/RHBA-2018:0373.html>.

### 9.4.2. RHSA-2018-0374: CFME 5.8.3 security, bug fix, and enhancement update

The bugs contained in this section are addressed by advisory RHSA-2018:0374. Further information about this advisory is available at <https://access.redhat.com/errata/RHSA-2018:0374.html>.

#### 9.4.2.1. Core

BZ#[1554412](#)

Due to VMware licensing restrictions Red Hat CloudForms no longer ship with WebMKS starting in version 5.8.3. However, it can be easily added to the UI appliances by following the steps in this documentation:  
<https://access.redhat.com/solutions/3376081>

#### 9.4.2.2. Vulnerability

BZ#[1500517](#)

A flaw was found in the CloudForms account configuration when using VMware. By default, a shared account is used that has privileged access to VMRC (VMWare Remote Console) functions that may not be appropriate for users of CloudForms (and thus this account). An attacker could use this vulnerability to view and make changes to settings in the VMRC and virtual machines controlled by it that they should not have access to.

## 9.5. Red Hat CloudForms 4.5.5

### 9.5.1. RHBA-2018-2744: CFME 5.8.5 bug fix and enhancement update for OpenShift images

Information about this advisory is available at <https://access.redhat.com/errata/RHBA-2018:2744.html>.

### 9.5.2. RHSA-2018-2745: CFME 5.8.5 Bug Fixes and Enhancement Update

The bugs contained in this section are addressed by advisory RHSA-2018:2745. Further information about this advisory is available at <https://access.redhat.com/errata/RHSA-2018:2745.html>.

#### 9.5.2.1. Provisioning

BZ#[1594008](#)

This update of CloudForms includes a VM Limit field, under the Hardware tab in the provisioning dialog. This feature is only supported when using ovirt-engine-sdk.

With this update, the VM Limit field contains a default value of the template's maximum memory. Users can then adjust the value to their own specifications.

#### 9.5.2.2. Vulnerability

BZ#[1602190](#)

CloudForms Management Engine has a vulnerability that allows local users to execute arbitrary commands as root. An attacker with SSH access to the system can use the dRuby (DRb) module installed on the system to execute arbitrary shell commands using `instance_eval``.