Red Hat Enterprise Virtualization 3.5 Manager Release Notes

Release notes for Red Hat Enterprise Virtualization Manager 3.5.

Red Hat Enterprise Virtualization Documentation Team
Release notes for Red Hat Enterprise Virtualization Manager 3.5.

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Abstract

The Release Notes provide high-level coverage of the improvements and additions that have been implemented in Red Hat Enterprise Virtualization 3.5.
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Chapter 1. Introduction

1.1. Introduction to Red Hat Enterprise Virtualization

Red Hat Enterprise Virtualization is a feature-rich server and desktop virtualization management system. It provides advanced capabilities for managing virtualization hosts and virtualized guests.

To install Red Hat Enterprise Virtualization Manager and virtualization hosts, your systems must be registered using Red Hat Subscription Management (RHSM).

Important

A clean installation is recommended for Red Hat Enterprise Virtualization 3.5.

1.2. Red Hat Subscription Manager

1.2.1. Red Hat Subscription Manager Entitlements and Repositories

Important

If your current systems are registered to RHN Classic, see [Migrating from RHN Classic to Red Hat Subscription Management (RHSM) for Red Hat Enterprise Virtualization](#) to migrate your systems to RHSM.

The Red Hat Subscription Manager (RHSM) provides packages necessary for installing Red Hat Enterprise Virtualization Manager and virtualization hosts.

Table 1.1. Required Pools for Red Hat Enterprise Virtualization Manager

<table>
<thead>
<tr>
<th>Subscription pool</th>
<th>Repository name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Enterprise Linux Server</td>
<td>rhel-6-server-rpms</td>
<td>Provides the Red Hat Enterprise Linux 6 Server.</td>
</tr>
<tr>
<td>RHEL Server Supplementary</td>
<td>rhel-6-server-supplementary-rpms</td>
<td>Provides the virtio-win package, which provides the Windows VirtIO drivers for use in virtual machines.</td>
</tr>
<tr>
<td>Red Hat Enterprise Virtualization</td>
<td>rhel-6-server-rhevm-3.5-rpms</td>
<td>Provides the Red Hat Enterprise Virtualization Manager.</td>
</tr>
<tr>
<td>Red Hat JBoss Enterprise Application Platform</td>
<td>jb-eap-6-for-rhel-6-server-rpms</td>
<td>Provides the supported release of Red Hat JBoss Enterprise Application Platform on which the Manager runs.</td>
</tr>
</tbody>
</table>

Table 1.2. Required Pool for Red Hat Enterprise Virtualization Hypervisor
<table>
<thead>
<tr>
<th>Subscription pool</th>
<th>Channel label</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Enterprise Virtualization</td>
<td>rhel-6-server-rhev-rpms</td>
<td>Provides the <em>rhev-hypervisor</em> package, which includes the image required to install the hypervisor.</td>
</tr>
</tbody>
</table>

**Table 1.3. Required Pools for Red Hat Enterprise Linux 7 Host**

<table>
<thead>
<tr>
<th>Subscription pool</th>
<th>Channel label</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Enterprise Linux Server</td>
<td>rhel-7-server-rpms</td>
<td>Provides the Red Hat Enterprise Linux 7 Server.</td>
</tr>
<tr>
<td>Red Hat Enterprise Virtualization Management Agents (RPMs)</td>
<td>rhel-7-server-rhev-mgmt-agent-rpms</td>
<td>Provides the QEMU and KVM packages required for using Red Hat Enterprise Linux 7 servers as virtualization hosts.</td>
</tr>
<tr>
<td>Red Hat Enterprise Linux 7 Server - Optional</td>
<td>rhel-7-server-optional-rpms</td>
<td>Provides the <em>sanlock</em> package and sanlock-related packages required for using Red Hat Enterprise Linux 7 servers as virtualization hosts.</td>
</tr>
</tbody>
</table>

**Table 1.4. Required Pools for Red Hat Enterprise Linux 6 Host**

<table>
<thead>
<tr>
<th>Subscription pool</th>
<th>Channel label</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Enterprise Linux Server</td>
<td>rhel-6-server-rpms</td>
<td>Provides the Red Hat Enterprise Linux 6 Server.</td>
</tr>
<tr>
<td>Red Hat Enterprise Virtualization Management Agents (RPMs)</td>
<td>rhel-6-server-rhev-mgmt-agent-rpms</td>
<td>Provides the QEMU and KVM packages required for using Red Hat Enterprise Linux 6 servers as virtualization hosts.</td>
</tr>
</tbody>
</table>

### 1.2.2. Additional Packages from Content Delivery Network

The packages provided in the following channels are not strictly required to install and configure a functioning Red Hat Enterprise Virtualization environment, however they provide additional capabilities to enhance the user experience.

**Table 1.5. Recommended Channels for Red Hat Enterprise Virtualization**

<table>
<thead>
<tr>
<th>Channel name</th>
<th>Repository name</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHEL Server Supplementary (v. 6 64-bit x86_64)</td>
<td>rhel-6-server-supplementary-rpms</td>
<td>Provides the <em>spice-usb-share</em> and <em>kmod-kspiceusb-rhel60</em> packages for Red Hat Enterprise Linux 6, which enables USB redirection (legacy mode) on Red Hat Enterprise Linux 6 clients.</td>
</tr>
<tr>
<td>Channel name</td>
<td>Repository name</td>
<td>Details</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>----------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RHEL Supplementary EUS (v. 5.9.z for 64-bit x86_64)</td>
<td>rhel-5.9.z-server-supplementary-rpms</td>
<td>Provides the <code>spice-usb-share</code> and <code>kmod-kspliceusb-rhel5u6</code> packages for Red Hat Enterprise Linux 5, which enables USB redirection (legacy mode) on Red Hat Enterprise Linux 5 clients.</td>
</tr>
<tr>
<td>Red Hat Enterprise Linux 7 Server - RH Common (v.7 Server for x86_64)</td>
<td>rhel-7-server-rh-common-rpms</td>
<td>Provides the <code>rhevm-guest-agent-common</code> package for Red Hat Enterprise Linux 7, which allows you to monitor virtual machine resources on Red Hat Enterprise Linux 7 clients.</td>
</tr>
<tr>
<td>Red Hat Enterprise Virt Agent (v.6 Server for x86_64)</td>
<td>rhel-6-server-rhev-agent-rpms</td>
<td>Provides the <code>rhevm-guest-agent-common</code> package for Red Hat Enterprise Linux 6, which allows you to monitor virtual machine resources on Red Hat Enterprise Linux 6 clients.</td>
</tr>
<tr>
<td>Red Hat Enterprise Virt Agent (v.5 Server for x86_64)</td>
<td>rhel-5-server-rhev-agent-rpms</td>
<td>Provides the <code>rhev-guest-agent</code> package for Red Hat Enterprise Linux 5, which allows you to monitor virtual machine resources on Red Hat Enterprise Linux 5 clients.</td>
</tr>
</tbody>
</table>
Chapter 2. What’s New?

2.1. Compute Features

Red Hat Enterprise Virtualization 3.5 provides optimized performance and resource allocation features including:

**NUMA Support including Host NUMA, NUMA Guest Pinning, and Virtual NUMA**

This functionality allows customers to provision large guest workloads while minimizing the overhead of physical memory access on compatible hosts.

**Extended SLA/QoS Support**

Administrators can now define Disk and CPU resource limits to prevent over utilization and unpredictable virtual machine performance issues.

**oVirt Optimizer Integration**

Administrators can now identify the optimal balance of virtual machines within a cluster. In addition, administrators can determine how to place new virtual machine workloads into a cluster with enough total available resources, and avoid scenarios whereby no single host has enough resources for a new virtual machine.

2.2. Storage Features

**Self-Hosted Engine iSCSI support**

With this feature, users can use iSCSI storage for Self-Hosted Engine data domain.

**Advanced snapshot overview capabilities**

Users can now select storage consumption details on a disk or snapshot level for an easier removal process.

**Improved storage domain management for disaster recovery**

Red Hat Enterprise Virtualization 3.5 provides support for migrating storage domains amongst different Red Hat Enterprise Virtualization data centers or different deployments. This functionality allows the transfer of virtual machines between setups without the need to copy the data into and out of an export domain, or the need to recover after the loss of an engine database.

**SLA for storage I/O bandwidth**

Administrators can now define I/O bandwidth limits to enhance VM I/O operations.

2.3. Networking Features

Red Hat Enterprise Virtualization 3.5 delivers network capabilities that fully support enterprise virtualization infrastructures and deliver agility and flexibility to accommodate evolving workloads. Key new features include:

**Self-Hosted Engine VLAN support**
The `ovirt-hosted-engine-setup` was enhanced to support the configuration of VLAN tagged interfaces.

**Enhanced network interfaces monitoring**

New events were introduced to notify the user in the case of NIC or bond failures.

**Ability to configure customized bridging options**

It is now possible to provide any configurable values of a Linux bridge, which serves as the basis for logical networks, through Red Hat Enterprise Virtualization Manager. This allows users to configure any parameters they need to meet specific network requirements.

### 2.4. Infrastructure Features

Red Hat Enterprise Virtualization 3.5 allows administrators to customize authentication and authorization processes according to specific organization needs. Furthermore, the release allows administrators to customize the user interface. New features to support this functionality include:

**Satellite integration**

This feature adds the capability to provision Red Hat Enterprise Virtualization on bare-metal machines and add them as hypervisors to Red Hat Enterprise Virtualization Manager using Foreman and Satellite.

**Generic LDAP provider support**

This feature enables the choice of using generic LDAP providers to authenticate users.

**Enhanced real time data in user interface**

The graphical user interface of the Administration Portal has been improved and now shows various real-time data including live migration status and progress, as well as the performance states of hosts and virtual machines.

**Support link-down detection of power management LAN**

This feature adds support for a periodic health check for all hosts with power management enabled. The health check detects and raises alerts failed operations on the LAN.

### 2.5. User Experience Enhancements

**Support for single sign-on to Administration and User Portals (Tech Preview)**

This feature supports single sign-on to User and Administration Portals.

**New graphical user interface for the Administration Portal and User Portal**

With this release, the graphical user interfaces for the Administration Portal and User Portal have been updated to provide Red Hat customers with better unified interface experience across products. After upgrading to the 3.5 version, clear your browser cache to see the updated interface.
Chapter 3. Technical Notes

3.1. Features

RFEs

BZ#1077284

This feature introduces several updates to the handling of MAC address pools using the engine-config command. Previously, attempting to configure large ranges of MAC addresses would raise out of memory exceptions under certain circumstances, most typically on engine startup. Moreover, specifying a range of MAC addresses that contained an invalid address would cause the operation to fail. Now, users can configure a MAC address pool with larger address ranges, and invalid MAC addresses are filtered out of the range. However, if no valid MAC addresses remain after filtering, the operation fails. In addition, the MaxMacsCountInPool configuration value has been deprecated, and only the MacPoolRanges configuration value is now considered when allocating MAC addresses. Red Hat recommends configuring the MAC address pool to contain the majority of MAC addresses to be used; only MAC addresses defined in the MAC address pool are stored in memory efficiently.

See http://bugzilla.redhat.com/show_bug.cgi?id=1077284

BZ#1154352

Previously, different Simple Network Management Protocol (SNMP) traps were sent by ovirt-engine-notifier for different events. Now, one generic SNMP trap, that contains the event data as Protocol Data Units (PDU), is used for all event types and a Management Information Base (MIB) file has been created to describe the SNMP traps. In addition, the PDU list has been extended.

See http://bugzilla.redhat.com/show_bug.cgi?id=1154352

BZ#716511

Red Hat Enterprise Virtualization 3.5 provides support for migrating storage domains amongst different Red Hat Enterprise Virtualization data centers or different deployments. This functionality allows the transfer of virtual machines between setups without the need to copy the data into and out of an export domain, or the need to recover after the loss of an engine database. Also see BZ#920708 for the REST API implementation.

See http://bugzilla.redhat.com/show_bug.cgi?id=716511

BZ#723211

With this feature, users can now clone a virtual machine directly from an existing virtual machine without the need to first create a template, making the process more time and resource efficient.

See http://bugzilla.redhat.com/show_bug.cgi?id=723211

BZ#967466

In the Administration Portal, a progress bar is now available to indicate the progress of migrating a running virtual machine.

See http://bugzilla.redhat.com/show_bug.cgi?id=967466
ovirt-engine-webadmin-portal

BZ#1114241

With this update, when editing the "Setup Host Networks" window, the "Save Network Configuration" check box is now marked by default to prevent user configuration changes wiped by accident.

See http://bugzilla.redhat.com/show_bug.cgi?id=1114241

vdsm

BZ#1125237

Previously, the logging level of libvirt was set to debug mode, which greatly increased log file size and negatively impacted performance for production environments. Now, the default logging level of libvirt is used and verbosity is decreased. If '/run/systemd/journal/socket' exists on the machine, libvirt's log file may be changed to journal. Refer to http://libvirt.org/logging.html for more information on the journal change.

See http://bugzilla.redhat.com/show_bug.cgi?id=1125237

rhevm-appliance

BZ#1029507

This feature adds a virtual appliance, which can be used to quickly setup a pre-installed and partially pre-configured image of Red Hat Enterprise Virtualization Manager. The image is available for download as either a raw disk or an OVA file.

The following command can be used inside the image to complete the site-specific configuration:

$ rhevm-setup --offline --config-append=rhevm-setup-answers

See http://bugzilla.redhat.com/show_bug.cgi?id=1029507

ovirt-engine-backend

BZ#987295

With this release, support for periodic power management health check to detect and warn about link-down of power management LAN has been added.

See http://bugzilla.redhat.com/show_bug.cgi?id=987295

3.2. Enhancements

ovirt-engine-webadmin-portal

BZ#1070823

With this feature, you can now edit the "Wipe after Delete" property of a disk even while the virtual machine is running.

See http://bugzilla.redhat.com/show_bug.cgi?id=1070823

BZ#1064544
With this release, the graphical user interfaces for the Administration Portal and User Portal have been updated to provide Red Hat customers with better unified interface experience across products. After upgrading to Red Hat Enterprise Virtualization 3.5, clear your browser cache to see the updated interface.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1064544](http://bugzilla.redhat.com/show_bug.cgi?id=1064544)

**BZ#859024**

A confirmation prompt has been added when unplugging a vNIC to prevent performing the potentially destructive action by accident.

See [http://bugzilla.redhat.com/show_bug.cgi?id=859024](http://bugzilla.redhat.com/show_bug.cgi?id=859024)

**RFEs**

**BZ#1034885**

With this update, users can now see the overview of snapshots in the Administration Portal.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1034885](http://bugzilla.redhat.com/show_bug.cgi?id=1034885)

**BZ#977079**

This feature adds support for enabling a paravirtualized random number generator (RNG) in virtual machines. To use this feature, the random number generator source must be set at cluster level to ensure all hosts support and report desired RNG device sources. This feature is supported in Red Hat Enterprise Linux hosts of version 6.6 and higher.

See [http://bugzilla.redhat.com/show_bug.cgi?id=977079](http://bugzilla.redhat.com/show_bug.cgi?id=977079)

**BZ#1083760**

With this feature, a host is prevented from rebooting when the host is in the middle of a kdump process to prevent any log loss.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1083760](http://bugzilla.redhat.com/show_bug.cgi?id=1083760)

**BZ#988392**

With this update, users now have the option to dismiss unwanted alerts from the Administration Portal.

See [http://bugzilla.redhat.com/show_bug.cgi?id=988392](http://bugzilla.redhat.com/show_bug.cgi?id=988392)

**BZ#828591**

Administrators can now identify the optimal balance of virtual machines within a cluster. In addition, administrators can determine how to place new virtual machine workloads into a cluster with enough total available resources, and avoid scenarios whereby no single host has enough resources for a new virtual machine.

See [http://bugzilla.redhat.com/show_bug.cgi?id=828591](http://bugzilla.redhat.com/show_bug.cgi?id=828591)

**BZ#895222**

In the Administration Portal, users can sort tables by clicking on column headers.

See [http://bugzilla.redhat.com/show_bug.cgi?id=895222](http://bugzilla.redhat.com/show_bug.cgi?id=895222)

**BZ#987299**
This update adds event notifications for NIC slave or bond faults, provided there is a network or label on the interface. Four new events have been made available for selection to configure your event notifier. They are: HOST_INTERFACE_STATE_UP, HOST_INTERFACE_STATE_DOWN, HOST_BOND_SLAVE_STATE_UP, and HOST_BOND_SLAVE_STATE_DOWN. For more information on enabling ovirt-engine-notifier, see the Administration Guide, Configuring Event Notifications.

See [http://bugzilla.redhat.com/show_bug.cgi?id=987299](http://bugzilla.redhat.com/show_bug.cgi?id=987299)

**ovirt-node**

**BZ#1086268**

With the Red Hat Enterprise Virtualization 3.5 release, you can now use a Red Hat Enterprise Virtualization Hypervisor 7.0 in your Red Hat Enterprise Virtualization environment. The Red Hat Enterprise Virtualization Hypervisor 7.0 is a minimal operating system based on Red Hat Enterprise Linux 7.0 that is designed to provide a simple method for setting up a physical machine to act as a hypervisor in a Red Hat Enterprise Virtualization environment. The minimal operating system contains only the packages required for the machine to act as a hypervisor, and features a simple text user interface for configuring the machine and adding it to an environment.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1086268](http://bugzilla.redhat.com/show_bug.cgi?id=1086268)

**ovirt-engine-setup**

**BZ#988422**

Red hat Enterprise Virtualization incorporated the OpenStack Neutron service as a network provider as part of the 3.4 release. However, to provision Neutron services, users need to manually deploy Neutron and Keystone services. With this update, users can now download the Neutron Virtual Appliance to deploy a Red Hat Enterprise Linux 7.0 based virtual machine with Neutron installed. The Neutron Virtual Appliance was designed to simplify the deployment process.

See [http://bugzilla.redhat.com/show_bug.cgi?id=988422](http://bugzilla.redhat.com/show_bug.cgi?id=988422)

**ovirt-engine-backend**

**BZ#1044033**

This feature enables configuration of ethtool options from the Red Hat Enterprise Virtualization Manager. Previously, the Manager only configured a small subset of the values of a network interface. Users now have the option to use the ethtool utility to customize their usage of network interfaces. The engine-config tool has to be used initially for the "ethtool_opts" key to be made available. These custom properties are accessible through the Administration Portal, REST API, and software development kits.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1044033](http://bugzilla.redhat.com/show_bug.cgi?id=1044033)

**BZ#1044042**

This feature enables configuration of bridging options from the Red Hat Enterprise Virtualization Manager. Previously, the Manager only configured a small subset of values of a linux bridge and customized configuration changes would be overridden by the Manager. Bridging options can now be supplied when provisioning a network on a host using the “bridge_opts” key. These custom properties are accessible through the Administration Portal, REST API, and software development kits.
ovirt-engine-restapi

BZ#1062435

With this update, users can now add, update, and delete scheduling policies through the REST API.

See http://bugzilla.redhat.com/show_bug.cgi?id=1062435

3.3. Bug Fixes

ovirt-engine-backend

BZ#920708

Previously, creating a new storage domain would fail if the given path was to a pre-existing domain. With this update, importing existing domains and adding new domains are separated as two actions and users can now create a new storage domain (NFS) on a mount that has existing storage domains. See the Technical Guide, "XML Representation of a Storage Domain" for an example. Also see BZ#716511 for more information on this feature.

See http://bugzilla.redhat.com/show_bug.cgi?id=920708

BZ#1091692

Previously, removing a labeled network directly from the data center level left the network in an unmanaged state on the host. Now, removing a labeled network directly from a data center removes it from the host.

See http://bugzilla.redhat.com/show_bug.cgi?id=1091692

BZ#1093393

This release introduces a change to the iSCSI multipath bond to block the addition of required networks to the bond. In previous releases, required networks were allowed to be added to the iSCSI multipath bond, and could cause a host to become non-operational even if one of the networks was lost.

See http://bugzilla.redhat.com/show_bug.cgi?id=1093393

BZ#1043808

Previously, if a host interface had multiple VLAN interfaces, the highest available MTU was assigned to all VLAN interfaces under that host interface, which caused the host to go into a non-responsive state. This bug fix moves the setting of the host level value of a default MTU to the engine side so a default value is in place if the MTU is not manually set. You can set the default MTU by setting the 'DefaultMTU' property using the engine-config tool. The default host level MTU must be the same as the data center level MTU, otherwise the network is considered to be out of synchronization. After upgrading to Red Hat Enterprise Virtualization 3.5, if the host level and the data center level MTU are not the same, the network will be out of synchronization.

See http://bugzilla.redhat.com/show_bug.cgi?id=1043808

ovirt-engine-userportal
BZ#1001419
Previously, resizing the right-hand pane of the User Portal generated a horizontal scrollbar that hid the 'Edit' button for 'Console' options. Now, resizing the right-hand pane does not produce a horizontal scrollbar.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1001419](http://bugzilla.redhat.com/show_bug.cgi?id=1001419)

BZ#1085380
Previously, in the User Portal, validation errors for the advanced options in the 'New Virtual Machine' and 'Edit virtual Machine' windows were only visible if the 'Show Advanced Options' button had been selected. Now, relevant validation errors will automatically display the advanced options to assist troubleshooting.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1085380](http://bugzilla.redhat.com/show_bug.cgi?id=1085380)

ovirt-engine-webadmin-portal

BZ#1100194
Previously, when using an Internet Explorer 9 browser, it was not possible for a user to use a mouse to select a specific template if there were more than three templates available. With this update, users can now use a mouse to scroll down the list of available templates.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1100194](http://bugzilla.redhat.com/show_bug.cgi?id=1100194)

BZ#1064273
Previously, when creating a virtual machine, changing the data center from one with multiple hosts to a different data center with multiple hosts caused the virtual machine creation to fail. This was due to a flaw in how the default host was being selected between the data centers. Now, creating a virtual machine in this way creates the virtual machine as expected.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1064273](http://bugzilla.redhat.com/show_bug.cgi?id=1064273)

ovirt-engine-restapi

BZ#1103490
Previously, attempts to retrieve virtual machine statistics using the REST API threw an exception. Now, the virtual machine statistics can be retrieved using the REST API.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1103490](http://bugzilla.redhat.com/show_bug.cgi?id=1103490)

3.4. Known Issues
distribution

BZ#1186524
Running 'yum update' on Red Hat Enterprise Linux hypervisors fails under certain conditions. This is caused by a conflict in the augeas-libs package, whereby the latest version of the package is available for the i686 architecture but not the x86_64 architecture. As a workaround, run 'yum update --exclude=augeas-libs' when updating Red Hat Enterprise Linux hypervisors.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1186524](http://bugzilla.redhat.com/show_bug.cgi?id=1186524)
ovirt-node

BZ#1189837
Assigning an IP configuration to a Red Hat Enterprise Virtualization Hypervisor 7.0 host or Red Hat Enterprise Linux 7 host using DHCP succeeds initially, but the DHCP client fails. As a result, after approximately one half of the DHCP lease time has passed in the local network, the host loses its IP address. As a workaround, you must set the valid_lft parameter of the interface to "forever":

```
ip addr change <address> dev <interface>
```

This prevents the IP address from being lost, but also prevents the IP address from being renewed.

See http://bugzilla.redhat.com/show_bug.cgi?id=1189837

BZ#1088875
After registering a Red Hat Enterprise Virtualization Hypervisor host with a Red Hat Enterprise Virtualization Manager from within the host, information regarding the network configuration in the text user interface for the Red Hat Enterprise Virtualization Hypervisor does not display the latest details. As a workaround, log out from and log back in to the Red Hat Enterprise Virtualization Hypervisor after registration. The latest information regarding the network configuration is then displayed.

See http://bugzilla.redhat.com/show_bug.cgi?id=1088875

BZ#1182048
On some Red Hat Enterprise Virtualization Hypervisor hosts, a device-mapper error (device-mapper: table: 253:6: multipath: error getting device) is displayed on the login screen. This error does not have a functional impact on those hosts.

See http://bugzilla.redhat.com/show_bug.cgi?id=1182048

BZ#1179085
Existing partitions on CCISS devices are identified as disks. This causes existing partitions on CCISS devices to be shown in the text user interface installer for the Red Hat Enterprise Virtualization Hypervisor as destinations on the boot and installation device selection pages. As a workaround, do not use any of the shown partitions as an installation destination for the Red Hat Enterprise Virtualization Hypervisor.

See http://bugzilla.redhat.com/show_bug.cgi?id=1179085

BZ#1152948
A multipath regression prevents a Red Hat Enterprise Virtualization Hypervisors from booting because it cannot find the root filesystem. The current workaround is to append "mpath" to the RHEV-H kernel command line during boot time.

See http://bugzilla.redhat.com/show_bug.cgi?id=1152948

BZ#1155957
A multipath regression prevents machines from booting from any USB media created using the dd command. The current workaround is to reboot the system.

See http://bugzilla.redhat.com/show_bug.cgi?id=1155957
BZ#1095140
A bug in the kdump logic prevents remote (NFS/SSH) target configuration.
See [http://bugzilla.redhat.com/show_bug.cgi?id=1095140](http://bugzilla.redhat.com/show_bug.cgi?id=1095140)

BZ#1162445
Red Hat Enterprise Virtualization Hypervisor interprets the major version of an installed image incorrectly and fails to upgrade to the latest major version. Re-installation is currently not possible.
See [http://bugzilla.redhat.com/show_bug.cgi?id=1162445](http://bugzilla.redhat.com/show_bug.cgi?id=1162445)

BZ#1149694
The BOOTIF=link argument is currently not supported for Red Hat Enterprise Linux 7.0 Hypervisors.
See [https://bugzilla.redhat.com/show_bug.cgi?id=1149694](https://bugzilla.redhat.com/show_bug.cgi?id=1149694)

BZ#1053505
There are issues related to the combination of booting live images from multipath devices, and can possibly lead to problems on some hardware devices. If you encounter this problem, please report it to Red Hat immediately. The relevant Red Hat Enterprise Linux bug number is BZ#1167620.
See [https://bugzilla.redhat.com/show_bug.cgi?id=1053505](https://bugzilla.redhat.com/show_bug.cgi?id=1053505)

BZ#1067355
In certain situations, Red Hat Enterprise Virtualization Hypervisor TUI makes an incorrect call to subscription manager that prevents the Hypervisor from registering to Satellite 6. The current workaround is to make the subscription manager call using the command line.
See [https://bugzilla.redhat.com/show_bug.cgi?id=1067355](https://bugzilla.redhat.com/show_bug.cgi?id=1067355)

**ovirt-engine-webadmin-portal**

BZ#967584
Users cannot use the search bar to search for a Gluster Volume based on the type 'distribute-replicated' or 'transport_type' in the Administration Portal.
See [http://bugzilla.redhat.com/show_bug.cgi?id=967584](http://bugzilla.redhat.com/show_bug.cgi?id=967584)

**ovirt-engine-restapi**

BZ#1158458
Using the Java SDK to fetch and change the cluster of a virtual machine sends the entire element to the API, including the outdated CPU profile of the previous cluster. Attempts to then update the virtual machine fails as CPU profile does not match with target cluster. The current workaround is to clear the cluster-specific fields when using the Java SDK to fetch and change the cluster of a virtual machine.
See [http://bugzilla.redhat.com/show_bug.cgi?id=1158458](http://bugzilla.redhat.com/show_bug.cgi?id=1158458)

**ovirt-optimizer**
BZ#1140127

Permissions for the default configuration file for the Optimizer will not be granted to the ‘jboss’ group if that group does not yet exist at the time of installation. Consequently, the configuration file is owned by ‘root:root’ and the default JBoss installation running under the separate ‘jboss’ user cannot read it. The configuration file has 6 4 0 permissions, as it contains a password. When the user changes the default configuration during Optimizer configuration, they must also manually change ownership of the file to ‘root:jboss’, so that the JBoss installation can read the file.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1140127](http://bugzilla.redhat.com/show_bug.cgi?id=1140127)

**ovirt-engine-backend**

BZ#1177651

The SELinux policy in Red Hat Enterprise Linux 7.0 blocks Red Hat Enterprise Virtualization from working with GlusterFS domains, causing GlusterFS domains to be unusable on Red Hat Enterprise Linux 7.0 when SELinux is enabled. As a workaround, you can disable SELinux by running "setenforce 0". A fix for the SELinux policy is being tracked in BZ#1181111. Once that bug is resolved, you can run "yum update selinux-policy" to resolve the issue described here.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1177651](http://bugzilla.redhat.com/show_bug.cgi?id=1177651)

BZ#1154630

Red Hat Enterprise Linux guests do not support NIC hot plugging by default. Install powerpc-utils version >=1.2.19 on the guest to enable NIC hot plugging.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1154630](http://bugzilla.redhat.com/show_bug.cgi?id=1154630)

BZ#1125846

Machines with installations of both Red Hat Enterprise Virtualization Manager and Foreman experience a conflict in the API URL that prevents Foreman from being added as an external provider. A workaround for this issue is to edit the /etc/httpd/conf.d/z-ovirt-engine-proxy.conf configuration file and remove 'api($|/)" from <LocationMatch, though this may introduce untested and unknown issues in Red Hat Enterprise Virtualization due to backwards compatibility requirements around the API URL. Red Hat does not recommend you to install both the Red Hat Enterprise Virtualization Manager and Foreman on the same machine.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1125846](http://bugzilla.redhat.com/show_bug.cgi?id=1125846)

**vdsm**

BZ#1188251

VDSM vdsm does not consume pre-defined ifcfg interfaces, and does not consider them as its own. However, because unified persistence is the default in Red Hat Enterprise Virtualization 3.5, ifcfg files of devices that are used by VDSM networks are being removed when VDSM starts. This results in ifcfg-bond* devices defined out of VDSM being removed, and VDSM fails to restore networks that depends on those devices.

There is no fix at current; the simplest workaround is to re-define bond devices via VDSM. For example:
vdsClient -s 0 setupNetworks bondings='{bond11:{nics:p1p3,p1p4}}'
vdsClient -s 0 setSafeNetworkConfig

Alternatively, bond devices can be re-defined via the engine. After upgrade, this results in created bond11 being persisted in VDSM's /var/lib/vdsm/persistence/netconf/bonds/bond11 and being available on reboot.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1188251](http://bugzilla.redhat.com/show_bug.cgi?id=1188251)

**BZ#1187244**

On Red Hat Enterprise Linux 7.* hosts and corresponding Red Hat Enterprise Virtualization Hypervisor versions, while the vdsm service is running, taking a DHCP interface down and then back up causes dhclient to run momentarily, fetch an IP address for the interface, and then stop running. Whenever the lease for the IP address expires, because dhclient is not running, the lease is not renewed and the interface loses its IP address.

Workarounds:

1. Configure the DHCP server to hand out infinite or practically infinite leases.

2. Ensure interfaces keep their IP addresses forever. The valid_lft parameter of the interface must be set to “forever” using: “ip addr change <address> dev <interface>”

3. Run dhclient manually following reboots and following execution of the Setup Networks command.

Workarounds 1. and 2. prevent hosts from losing their IP addresses, but go against the principles of DHCP. Workaround 3. requires manual effort. Ultimately, using DHCP on Red Hat Enterprise Linux 7.* hosts and corresponding Red Hat Enterprise Virtualization Hypervisor versions is hazardous. Until this issue is fixed, DHCP configuration on such hosts is not supported.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1187244](http://bugzilla.redhat.com/show_bug.cgi?id=1187244)

### 3.5. Deprecated Functionalities

**RFEs**

**BZ#1102018**

Previously, the OpenStack Networking (Neutron) integration supported both the Linux Bridge and Open vSwitch plug-ins. Since Open vSwitch is the recommended plug-in to use with Red Hat Enterprise Linux OpenStack Platform and it offers feature parity with Linux Bridge, the Linux Bridge plug-in is dropped from the integration.

See [http://bugzilla.redhat.com/show_bug.cgi?id=1102018](http://bugzilla.redhat.com/show_bug.cgi?id=1102018)

**ovirt-node-plugin-vdsm**

**BZ#1039267**

Since Red Hat Enterprise Virtualization 3.3, the process for deploying a Red Hat Enterprise Virtualization Hypervisor host disables vdsm-reg. As a result, information regarding the machine where the Red Hat Enterprise Virtualization Manager is installed is no longer available in the text user interface for the host when you register Red Hat Enterprise Virtualization Hypervisor hosts from the Manager.
3.6. Security

## Revision History

<table>
<thead>
<tr>
<th>Revision 3.5-21</th>
<th>Fri 27 Feb 2015</th>
<th>Andrew Dahms</th>
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<tbody>
<tr>
<td>Corrected the description of the Red Hat Enterprise Virtualization Manager channel.</td>
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<tr>
<th>Revision 3.5-20</th>
<th>Thu 26 Feb 2015</th>
<th>Andrew Dahms</th>
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<tbody>
<tr>
<td>Added a note regarding deprecated functionality for ovirt-node-plugin-vdsm.</td>
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<th>Revision 3.5-19</th>
<th>Thu 26 Feb 2015</th>
<th>Andrew Dahms</th>
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<tr>
<td>Removed a note regarding self-hosted engine support.</td>
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<th>Revision 3.5-18</th>
<th>Wed 11 Feb 2015</th>
<th>Andrew Dahms</th>
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<tbody>
<tr>
<td>Added known issue entries for the ovirt-node and distribution components.</td>
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<th>Revision 3.5-17</th>
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<td>Added known issue entries.</td>
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<th>Sun 14 Dec 2014</th>
<th>Andrew Burden</th>
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<td>Line edits and updates based on localization feedback.</td>
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<th>Mon 08 Dec 2014</th>
<th>Andrew Burden</th>
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<tr>
<td>BZ#1029507 added to 'Features' and BZ#1158458 added to 'Known Issues'.</td>
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<td>Known issues updated.</td>
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<td>Added in known issues for Beta 5 release.</td>
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<td>Rebuilding the book.</td>
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<td>Added 'Red Hat Enterprise Linux 7 Server - Optional' channel for RHEL7 hosts.</td>
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<th>Wed 01 Oct 2014</th>
<th>Julie Wu</th>
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</table>
Rebuilding the book.

**Revision 3.5-4**  **Mon 22 Sep 2014**  **Julie Wu**  
Updated to include a complete list of 3.5 Beta features.

**Revision 3.5-3**  **Thu 18 Sep 2014**  **Andrew Burden**  
Brewing for 3.5 Beta.

**Revision 3.5-2**  **Wed 10 Sep 2014**  **Julie Wu**  
*BZ#1110785* - Updated channels.

**Revision 3.5-1**  **Thu 5 Jun 2014**  **Lucy Bopf**  
Initial creation for the Red Hat Enterprise Virtualization 3.5 release.