Veeam Backup for Red Hat Virtualization 2.0
Release Notes

This document provides last-minute information about Veeam Backup for Red Hat Virtualization (RHV) 2.0, including system requirements, installation procedure, as well as relevant information on technical support, documentation, and online resources.

The version of Veeam Backup for RHV 11.0.2.253 is available for download at: https://www.veeam.com/backup-red-hat-virtualization-download.html starting from June 30th, 2022.

See next:

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System Requirements

Platform

- Red Hat Virtualization version 4.4 SP1 (oVirt 4.5.0)
- Red Hat Virtualization node operating version 4.5
- Red Hat Virtualization cluster compatibility version 4.7

To learn how to configure the cluster compatibility version, see Red Hat Product Documentation.

Virtual Hardware for VMs

During the deployment process, the Veeam Backup & Replication RHV Backup Proxy (RHV Backup Proxy) is deployed in an RHV cluster as a dedicated Linux-based VM. The RHV Backup proxy configuration determines the maximum number of tasks (backup or restore sessions) that the backup proxy can handle in parallel. If this number is exceeded, the backup proxy will not start a new task until one of the current tasks finishes. By default, the RHV Backup Proxy supports 4 concurrent tasks and runs on a VM with the following configuration:

- **CPU**: 8 vCPU
- **Memory**: 4 GB RAM
- **Disk Space**: 64 GB for product installation, RHV Backup Proxy internal database files, logs, and other data.

The maximum number of concurrent tasks can be increased, however, additional resources must be allocated: 1 vCPU (2 vCPUs recommended) and 1 GB RAM for each additional task. When configuring the maximum number of concurrent tasks, consider the network traffic throughput in your virtual infrastructure.

Veeam Backup & Replication and RHV Plug-in

Veeam Backup for RHV 2.0 includes:

- RHV Plug-in 11.0.2.253
- RHV Backup Proxy 2.0.0.280

RHV Backup Proxy requires integration with RHV Plug-in installed on the Veeam Backup & Replication 11a CP4 server.

What's New in Version 2.0

Veeam Backup for RHV 2.0 introduces RHV Plug-in — an architecture component that enables integration between the Veeam Backup & Replication server and the RHV Manager and allows the Veeam Backup & Replication server to manage the RHV Backup Proxy. The RHV Manager and the RHV Backup Proxy are now added to the backup infrastructure using the Veeam Backup & Replication console.

VM Restore functionality is now available in the Veeam Backup & Replication console. You can use the console to restore multiple VMs during one restore session. In the restore wizard, you can also select the cluster to which VMs will be restored.

The RHV Backup Proxy configuration backup feature has been enhanced. Now, you can restore proxy configuration database from the proxy web console.
Known Issues and Limitations

Veeam Backup for Red Hat Virtualization

Networking

- DHCP or zero configuration networking is required. For more information, see the Zero Configuration Networking article.

Veeam Backup & Replication Repository

- Veeam Cloud Connect repositories are not supported as backup repositories for Veeam Backup for RHV.
- If you want to store RHV VM backups on hardened repositories, make sure that you enable periodic creation of active full backups in the backup job settings and make sure that the backup job retention period is longer than the immutability period of the repository. Otherwise, the backup chain transformation will fail because merging of incremental backups into a full backup is not possible on immutable repositories.

Upgrading

- Adding an RHV Backup Proxy version 1.0 or 1a to the backup infrastructure in the Veeam Backup & Replication console may result in a warning notifying that the backup server cannot be connected. The issue is caused by the proxy configuration that contains the backup server hostname instead of the FQDN. To resolve the issue, remove the proxy from the backup infrastructure in the Veeam Backup & Replication console (do not remove the VM) and add it again.

Backup Jobs and Settings

Backup Jobs

- Veeam Backup for RHV does not create application-consistent backups. You can use Veeam Agent for Linux or Veeam Agent for Windows to create application-consistent backups.
- Veeam Backup for RHV creates forever forward incremental per-VM backup chains (one backup chain contains data for one VM). When you add several VMs to a backup job, Veeam Backup for RHV creates individual backup chains on the Veeam backup repository, one for each VM processed by the job. Note that for forward incremental backup chains, you can create only active full backups. Synthetic full backups are not supported for RHV VM backups. For more information on the backup method, see the Backup Methods section of the Veeam Backup & Replication User Guide.
- Veeam Backup for RHV supports VM backups with mixed virtual disks: RAW and QCOW2. You can create an incremental backup for virtual disks in QCOW2 format. Virtual disks in RAW format support only full backup.
- Backup job compression, deduplication and block size settings cannot be changed. Built-in settings:
  - 1 MB block size;
  - LZ4 compression;
  - deduplication is enabled.
- You can configure encryption settings in the repository settings using the Veeam Backup & Replication console. For more information, see the Access Permissions section of the Veeam Backup & Replication User Guide.
- Health check of backup files is not supported for backups created by Veeam Backup for RHV.
- VMs can be backed up multiple times.
- You cannot back up a VM in a snapshot preview mode.
- A VM can have only one active backup job at a time. Two backup jobs cannot back up the same VM simultaneously. VMs backup creation by different vendors or different RHV Backup Proxies is not supported.
- You cannot create a new backup job if the previous VM backup was completed incorrectly or when a 3rd party software/another instance of Veeam Backup for RHV is trying to back up the current VM.

Red Hat Virtualization 4.4 SP1 Known Issues
- When creating a VM, the RHV default disk format is RAW. For the incremental backup, you must select for a virtual disk the Enable incremental backup check box, then a disk will be created in QCOW2 format. For more information, see Red Hat Product Documentation. Related RHV bug:
  - https://bugzilla.redhat.com/show_bug.cgi?id=1915029
- You cannot back up hosted-engine VMs. You can use an engine-backup to create oVirt configuration backup. Related RHV bug:
  - https://bugzilla.redhat.com/show_bug.cgi?id=1989121
- An RHV host cannot be switched to the maintenance mode due to active data transfer being performed, however, no backup operations are being processed. To resolve the issue, contact Red Hat technical support. Related RHV bug:
  - https://bugzilla.redhat.com/show_bug.cgi?id=2037057
- Incremental backup fails without notifying about an error if the VM is missing a disk bitmap that was created during the previous backup session. To resolve the issue, perform full backup. Related RHV bug:
  - https://bugzilla.redhat.com/show_bug.cgi?id=2097863
- A backup of a VM may fail if the VM is powered off during the backup process. Related RHV bug:
  - https://bugzilla.redhat.com/show_bug.cgi?id=2090682
- For an RHV cluster setup with 2 network adapters, manual configuration of network routing may be required. Additionally, if a SAN network is reachable from the ovirtmgmt network through a gateway, RHV will use the ovirtmgmt network instead of the selected SAN network. To avoid this issue, perform network configuration so that the SAN network cannot be reached from the ovirtmgmt network. Related RHV bug:
  - https://bugzilla.redhat.com/show_bug.cgi?id=2084186

Backup Files and Jobs in Veeam Backup & Replication Console
Backup files and jobs created by the RHV Backup Proxy are visible in the Veeam Backup & Replication console. However, some of the Veeam Backup & Replication functionality is not available for these backups and jobs.
- In the Veeam Backup & Replication console, when you try to create or edit a backup job, you will be redirected to the RHV Backup Proxy web console where you can perform these operations.
- In Veeam Backup & Replication console, you can:
  - Enable and disable backup jobs.
  - Use backup jobs as a source for backup copy or backup to tape jobs.
  - Delete backup jobs.
  - View statistics of backup jobs.
  - Start and stop backup jobs.
  - Launch the RHV Backup Proxy web console.
**Data Recovery**

- You can perform Instant Recovery to VMware, Hyper-V, Nutanix AHV hosts from backups created by Veeam Backup for RHV. VMware vSphere, Hyper-V or Nutanix AHV hosts must be added to the Veeam Backup & Replication backup infrastructure.
- Veeam Backup for RHV supports restore from another RHV instance for the imported backups.
- When you restore VMs using the Veeam Backup for RHV web console, you cannot select RHV host for restore. The oVirt engine will select it according to the used cluster and storage domain.
- A revert to a snapshot makes a full backup instead of an incremental backup because incremental backup checkpoints are associated with snapshots. Veeam Backup for RHV creates a full scan backup first and an incremental backup in the next session. It performs a full read on a source side but still an increment on a repository side.
- If a VM added to the restore session contains multiple disks, Veeam Backup for RHV restores one disk per job at a time.

**Recovery Verification**

*SureBackup* is not supported for backups created by Veeam Backup for RHV.

**Veeam ONE**

Veeam ONE 11 does not support monitoring of Veeam Backup for RHV operations.

**Veeam Backup Enterprise Manager**

You can use Veeam Backup Enterprise Manager to file-level restore guest OS files of RHV VMs and manage RHV VM backup copy jobs. All other operations are not supported.
Deploying Veeam Backup for Red Hat Virtualization

To deploy Veeam Backup for RHV 2.0, do the following:

1. Install Veeam Backup & Replication 11a CP4 and configure a backup repository that will be used as a target for VM backups.
2. Download RHV Plug-in for Veeam Backup & Replication from the Veeam downloads page.
3. Install RHV Plug-in.
4. In the Veeam Backup & Replication console, add the RHV Manager to the backup infrastructure.
5. In the Veeam Backup & Replication console, complete a wizard to deploy a new RHV Backup Proxy or connect an existing one.

For detailed instructions, see the Deployment section of the Veeam Backup for RHV User Guide.

Upgrading Veeam Backup for Red Hat Virtualization

Veeam Backup for RHV version 1.0 and 1a can be upgraded to version 2.0.

Before upgrading Veeam Backup for RHV, you must back up the configuration database of the RHV Backup Proxy in the web console of the proxy.

If the backup server and the RHV Backup Proxy version 1.0 or 1a are connected to the internet, you can use the Veeam Backup & Replication console to upgrade the proxy.

If your backup server or the RHV Backup Proxy version 1.0 or 1a is not connected to the internet, you should deploy a new proxy and use the configuration backup of the RHV Backup Proxy version 1.0 or 1a to restore the configuration settings to the new RHV Backup Proxy version 2.0.

For detailed instructions, see the Upgrading to Veeam Backup for RHV 2.0 section of the Veeam Backup for RHV User Guide.

Licensing

Veeam Backup for RHV is licensed by the number of protected RHV VMs. Each protected RHV VM consumes one Veeam Universal License instance from the license scope. An RHV VM is considered protected if it has a restore point created during the past 31 days.

For more information, the Licensing section of the Veeam Backup for RHV User Guide.

To renew your maintenance plan, please contact Veeam customer support.
Technical Documentation References

If you have any questions about Veeam Backup for RHV, you may use the following resources:

- Product web page
- Veeam Backup for RHV documentation
- Veeam R&D Forums

Technical Support

We offer email and phone technical support for customers on maintenance and during the official evaluation period. For better experience, please provide the following information when contacting Veeam Customer Support:

- Version information for the product and all infrastructure components
- Error message and/or accurate description of the problem you are having.
- Log files

TIP

To export the log files, click the Settings icon at the top right corner of the RHV backup proxy web and select Appliance Settings, click Support Bundle, select a relevant set of log files and click Download.

To submit your support ticket or obtain additional information, please visit the Veeam Customer Support Portal. Before contacting Veeam Customer Support, consider searching for a resolution on Veeam R&D Forums.

Contacting Veeam Software

At Veeam Software, we pay close attention to comments from our customers — we make it our mission to listen to your input, and to build our products with your suggestions in mind. We encourage all customers to join Veeam R&D Forums and share their feedback directly with the R&D team.

Should you have a technical or licensing issue or question, please feel free to contact our Customer Support organization directly. We have qualified technical and customer support staff available 24/7 who will help you with any inquiry that you may have.

Customer Support

For the most up to date information about our support practices, business hours and contact details, please visit the Veeam Customer Support Portal.

Company Contacts

For the most up to date information about company contacts and office locations, please visit the Veeam Contacts Webpage.