Veeam Backup for Nutanix AHV 2.0
Release Notes

This document provides last-minute information about Veeam Backup for Nutanix AHV 2.0, including system requirements, installation procedure, as well as relevant information on technical support, documentation, and online resources.

NOTE:
Naming of the product has been changed. Veeam Backup for Nutanix AHV 2.0 is the updated version of Veeam Availability for Nutanix AHV 1.0.


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System Requirements

Platform
- Nutanix AHV versions from 5.5.x to 5.16.x
- CE 2019.11.22 or later for Community Edition

VM Virtual Hardware
Veeam Backup & Replication AHV Backup Proxy (AHV Backup Proxy) is an independent Linux-based platform. You don’t need to install it on an OS. You must deploy the AHV Backup Proxy VMDK file as a boot disk on a VM residing on the Nutanix AHV Cluster which you want to protect.

Mind the hardware requirements for the AHV Backup Proxy VM:
- **CPU**: x86-64 processors. 4 CPU cores plus 1 CPU core for each additional concurrent task (default concurrency level is 3 VMs at a time).
- **Memory**: 4 GB RAM plus 1 GB RAM for each additional concurrent task.
- **Disk Space**: 50 GB for product installation, database files, logs, and other data.

Veeam Backup & Replication
VAHV Backup Proxy 2.0 supports integration with Veeam Backup & Replication version 10 or later.
Known Issues and Limitations

AHV Backup Proxy

Networking

- The hostname of the Veeam Backup & Replication server and all server hostnames connected to it must be resolvable into IPv4 addresses. IPV6 is not supported by the AHV Backup Proxy VM.

- The AHV Backup Proxy VM is configured with a single network interface. The interface is used for management, backup and recovery operations. The interface needs network access to both AHV cluster IP addresses, and to Veeam Backup & Replication servers and repositories.

- Veeam Backup & Replication connects to AHV Backup Proxy using the proxy hostname. If the DNS server on your network is not configured properly, the deployment of AHV Backup Proxy will finish with the warning that the proxy hostname is not resolved to its IP address. In this case, the AHV Backup Proxy is deployed on the AHV cluster but it is shown in the Veeam Backup & Replication infrastructure in the Unavailable state. When the proxy is in the Unavailable state, you can manage AHV Backup Proxy only using the web console and most of features on the Veeam Backup & Replication side will be locked.

To make the Veeam Backup & Replication server correctly resolve the hostname of the AHV Backup Proxy server, the DNS zone where the Veeam Backup & Replication server is located must contain a DNS resource record for the AHV Backup Proxy server. To add a new DNS resource record, you can use DNS Manager deployed on the DNS server. You can also use the `Add-DnsServerResourceRecordA` PowerShell command.

Configuration Backup and Restore

- You can restore configuration database only during initial setup of the AHV Backup Proxy. For details, see Restoring Configuration Settings.

- [Only for Standalone mode of AHV Backup Proxy] Before upgrading AHV Backup Proxy to a new version, back up the configuration database. Otherwise, you will lose all events and settings.

- If you back up configuration database of Veeam Backup & Replication, the configuration backup will not include AHV Backup Proxy job settings.

  If you restore the configuration database of Veeam Backup & Replication, you must remove existing AHV backup proxies from the Veeam Backup & Replication infrastructure and connect to them again. Otherwise, these AHV backup proxies will not be able to perform backup and restore operations due to missing authentication certificates.

Veeam Backup & Replication Server

AHV Backup Proxy 2.0 supports integration with Veeam Backup & Replication 10 or later versions.

Veeam Backup & Replication Repository

Veeam Cloud Connect repositories are not supported as backup repositories for AHV Backup Proxy. You can use these repositories in Veeam Backup & Replication console as target locations for backup copy jobs.

Nutanix AHV Clusters Added to AHV Backup Proxy Infrastructure

- You can add only one AHV Backup Proxy per Nutanix AHV cluster.

- [for standalone mode of AHV Backup Proxy] Prism Central IP addresses cannot be used to define an AHV cluster in the AHV cluster settings of the AHV Backup Proxy.

- Some Nutanix API calls may fail during backup due to AHV 5.5.x API bug. This typically can occur if many parallel backup jobs are running at the same time.

  The issue is fixed in AHV 5.5.4 and 5.8.1 or later.
• Nutanix CVM limitations:
  o Nutanix’s CVM cannot be backed up by AHV Backup Proxy. It is controlled by Nutanix as cluster nodes are added to the cluster.
  o If you raise the number of concurrent backup tasks, backup jobs may fail due to CVM resource limitations. The CVM on each node of the cluster may need additional resources.


Import Operations
• Backups cannot be imported from unsupported repository types. This can affect imports from backup copy jobs.

Backup Jobs and Settings
Backup Jobs
• AHV Backup Proxy creates application-consistent backups when the source VM meets Nutanix requirements described in the Application-Consistent Snapshot Guidelines of the Prism Web Console Guide. If a VM does not meet these requirements, the AHV Backup Proxy will create a crash-consistent backup.

  You can also use Veeam Agent for Linux or Veeam Agent for Windows to create application-consistent backups.

• AHV Backup Proxy can create the forever forward incremental and forward incremental per-VM backup chains (one backup chain contains data for one VM). When you add several VMs to a backup job, AHV Backup Proxy 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 AHV VM backups.

  Backup chain is forward incremental. For details on the backup method, see the Backup Methods section of the Veeam Backup & Replication User Guide.

• For backup jobs that include a protection domain with consistency groups that contain two or more entities, AHV Backup Proxy does not use Veeam Changed Block Tracking. This means that incremental backup jobs will take more time to process the VMs.

• Backup job compression, deduplication and block size settings cannot be changed. Built-in settings:
  o 1 MB block size;
  o LZ4 compression;
  o deduplication is enabled.

  You can configure encryption settings in the repository settings using the Veeam Backup & Replication console. For details, see the Access Permissions section of the Veeam Backup & Replication User Guide.

  GDPR locations cannot be set within AHV Backup Proxy backup jobs.

  Health check of backup files is not supported for backups created by AHV Backup Proxy.

Backing Up Protection Domains
• Only one protection domain can be added in backup job settings. If you need to protect multiple protection domains, create multiple backup jobs.

• Inactive protection domains are not visible in backup job settings.
Back Up Volume Groups

- You cannot add a Volume Group to a backup job directly. To back up a volume group, you must back up a VM to which volume groups are attached.

- If you add a protection domain as source for a backup job, AHV Backup Proxy does not process individual volume groups added to the protection domain. To back up a volume group within a protection domain, you must back up a protection domain that includes VMs to which the required volume groups are attached. Also, a volume group and the VM to which the volume group is attached must be members of the same consistency group.

- If you back up VMs and attached VGs not as a part of a PD, AHV Backup Proxy creates snapshots for VMs and attached VGs not simultaneously. That may cause data inconsistency. For data-consistent backups of VGs, use PD backup jobs.

- AHV Backup Proxy does not process volume groups where CHAP authentication is enabled.

- If a volume group is attached to multiple VMs and you back up a protection domain that includes these VMs, volume groups may be backed up multiple times.

Restore in AHV Backup Proxy Web UI

- [For restore from user snapshots and PD snapshots] Network settings of the VM cannot be changed in the restore wizard. These parameters can be changed after the restore is complete via Prism Element or Prism Central.

- [For VM Disk Restore] If you restore a disk that was flagged as a boot device in AHV VM settings, flag of the disk will be dropped. You need to assign it again after the restore.

- Parallel VMs/disks restore is not supported (AHV Backup Proxy restores only 1 VM or disk at a time). Note that parallel restore of VMs/disks is supported when you perform restore in the Veeam Backup & Replication console.

- If a source VM has a set Affinity and during restore this host is not available on the cluster (or original VM was backed up from different cluster), you must set the affinity policy manually before starting the VM.

- AHV Backup Proxy can restore volume groups only as part of VMs to which the volume groups are attached. If you restore to original location, AHV Backup Proxy overwrites the original VM. If you restore to different location, AHV Backup Proxy creates a new volume group.

- If you restore VMs where the Secure Boot feature is enabled, AHV Backup Proxy restores these VMs with disabled Secure Boot. You must enable the feature manually after the restore.

Restore in Veeam Backup & Replication Console

- If you restore from a backup of a VMware, Hyper-V VM or from a backup created by Veeam Agent, restored VM may have network connection problems. To solve the problem, you must install Nutanix Guest Tools on the restored VM.

- When you restore from backups of VMware vSphere and Microsoft Hyper-V VM backups created by Veeam Backup & Replication or Veeam Agents, the VM is restored with default hardware resources: 1 CPU core, 1 GB RAM. You can change default values in the settings of the restored VM.

- Within one restore session VM disks are restored sequentially.

- If you restore VMs where the Secure Boot feature is enabled, AHV Backup Proxy restores these VMs with disabled Secure Boot. You must enable the feature manually after the restore.

- [For restore from user snapshots] During the restore, VMs will be disconnected from the network. You can configure the connection manually. If you select to restore to different location and choose to disconnect from all networks, the new VM will be created without networks.

- When you restore a VM from a backup/backup snapshot and choose to disconnect all the networks, the VM will be restored with its original networks. For such cases, perform restore using the AHV Backup Proxy web console.
• If you want to restore a VM with different network settings from a backup created by Veeam Availability for Nutanix 1.0, the restore wizard in the Veeam Backup & Replication console does not show network adapter settings. For this case, perform the restore using the AHV Backup Proxy web console.

Backup Files and Jobs in Veeam Backup & Replication Console
Backup files and jobs created by AHV 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 jobs of AHV Backup Proxy, you will be redirected to the AHV Backup Proxy web console, where you can perform these operations.

• In Veeam Backup & Replication console, you can:
  o Disable scheduled AHV Backup Proxy jobs
  o Use jobs of AHV Backup Proxy as a source for backup copy or backup to tape jobs
  o Delete unused jobs of AHV Backup Proxy
  o View statistics of jobs created by AHV Backup Proxy
  o Start and stop jobs
  o Launch the AHV Backup Proxy web console

VeeamZIP

• VeeamZIP retention is not supported.

• In the Destination section of the VeeamZIP wizard, if you select the Local or shared folder option and specify an SMB share that requires authentication, VeeamZIP process will fail. As a workaround, you can register the SMB share as a backup repository and then, in the VeeamZIP wizard, select the Backup repository option, where you will be able to select the added SMB share repository.

• You can configure email notifications for VeeamZIP operations in Veeam Backup & Replication settings.

Recovery Verification
SureBackup is not supported for backups created by AHV Backup Proxy.

Data Recovery

• When you restore from backups of VMware vSphere and Microsoft Hyper-V VM backups created by Veeam Backup & Replication or Veeam Agents, the restored VM has default hardware resources: 1 CPU core, 1 GB RAM. You can change default values in the settings of the restored VM.

• If you want to perform FLR from VG disks, you should run FLR from backups of VMs that have the required VGs attached to them.

• You can perform instant recovery to VMware and Hyper-V hosts from backups created by AHV Backup Proxy. VMware vSphere or Hyper-V hosts must be added to the Veeam Backup & Replication infrastructure.

• You cannot perform instant recovery to AHV hosts/clusters due to AHV restrictions. VM snapshots in AHV offer fast restore if they are available.

Veeam One

Veeam ONE 10 supports monitoring, alerting and reporting features for VMs protected by AHV Backup Proxy. For the list of supported features, see the What’s New document for Veeam ONE 10.

Veeam Backup Enterprise Manager

You can use Veeam Backup Enterprise Manager to restore guest OS files of AHV VMs and manage AHV VM backup copy jobs. All other operations are not supported.
Deploying Veeam Backup for Nutanix AHV

To deploy Veeam Backup for Nutanix AHV, perform the following.

1. Install Veeam Backup & Replication 10 and configure the backup repository that will be used as a target for VM backups.
3. Install Nutanix AHV Plug-in that allows to add AHV cluster and AHV Backup Proxy.
4. Perform initial configuration for the cluster that you want to protect:
   a. **Add Nutanix AHV cluster** to the Veeam Backup & Replication infrastructure.
   b. **Deploy AHV Backup Proxy** on an AHV cluster where VMs that you plan to back up reside.

For details, see the [Deployment](#) section of the Veeam Backup for Nutanix AHV User Guide.

Upgrading from Veeam Availability for Nutanix AHV 1.0 to Veeam Backup for Nutanix AHV 2.0

Veeam Backup for Nutanix AHV 2.0 is a new version of Veeam Availability for Nutanix AHV. If you want to update Veeam Availability for Nutanix AHV version 1.0 to AHV Backup Proxy 2.0, do the following. Note that the proxy appliance VM must be turned on before you start the upgrade process.

1. Upgrade Veeam Backup & Replication to version 10 or later. For instructions, see the [Upgrading to Veeam Backup & Replication 10](#) section of the Veeam Backup & Replication User Guide.
2. On the Veeam Backup & Replication 10 server, install Veeam AHV Plug-in.
3. In the Veeam Backup & Replication console, add the AHV cluster to the Veeam Backup & Replication infrastructure.
4. In the Veeam Backup & Replication console, add AHV Backup Proxy. Note that in the **Deployment Mode** step of the **New Nutanix Proxy** wizard, you must select the **Connect proxy** option. With this option, you can register the existing proxy appliance of Veeam Availability for Nutanix AHV 1.0.
   
   Note that in the **Virtual Machine** step of the wizard, you must specify the number of vCPU core, RAM size and the number of parallel tasks. Otherwise, the AHV Backup Proxy VM will have the default configuration: 4 concurrent tasks, 4 vCPU, 4GB RAM.

   After you connect to the AHV Backup Proxy, it will be automatically updated to version 2.0. All the configuration settings (appliance settings, jobs, events) will be automatically saved and transferred to new AHV Backup Proxy.
Licensing

Veeam Backup for Nutanix AHV can be licensed per protected VMs. For more information, see www.veeam.com/eula.html.

To obtain a full license, please refer to www.veeam.com/buy-end-user.html.

The full license includes a one-year maintenance plan. To renew your maintenance plan, please contact Veeam customer support at: renewals@veeam.com.
Technical Documentation References

If you have any questions about Veeam Backup & Replication, you may use the following resources:

- Community forums: [www.veeam.com/forums](http://www.veeam.com/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 when contacting our technical support:

- Version information for the product and all infrastructure components.
- Error message and/or accurate description of the problem you are having.
- Log files. To export log files:
  1. Click the gear icon at the main menu and select **Appliance Settings**.
  2. At the **Summary** tab of the **Appliance Settings** section, click **Support Bundle**.
  3. Select a relevant set of log files and click **Download**.

To submit your support ticket or obtain additional information, please visit [www.veeam.com/support.html](http://www.veeam.com/support.html).

**TIP:**
Before contacting technical support, consider searching for a resolution on Veeam community forums at [www.veeam.com/forums](http://www.veeam.com/forums).

Contacting Veeam Software

At Veeam Software we pay close attention to comments from our customers. It is important to us not only to quickly help you with your technical support issues — we make it our mission to listen to your input, and to build our products with your suggestions in mind.

Should you have a Customer Support issue or question, please feel free to contact us. We have qualified technical and customer support staff available 24 hours a day, 7 days a week 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 [www.veeam.com/support.html](http://www.veeam.com/support.html). You can also use this page to submit a support ticket and download the support policy guide.

**Company Contacts**

For the most up to date information about company contacts and offices location, please visit [www.veeam.com/contacts](http://www.veeam.com/contacts).