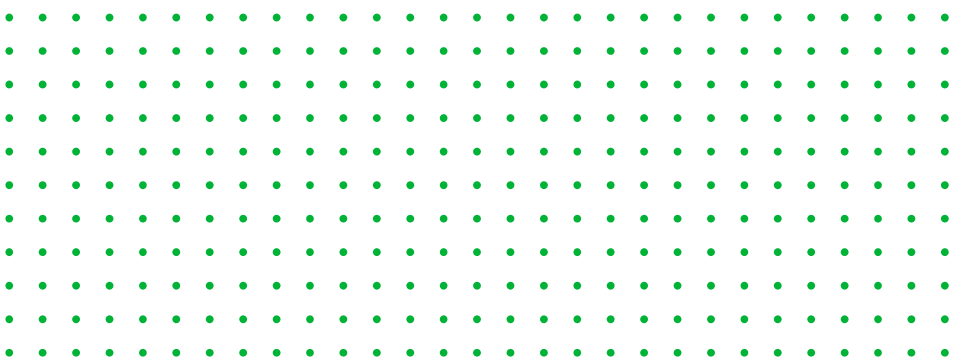


# What's New for Veeam Backup for Nutanix AHV Version 5

September 2023

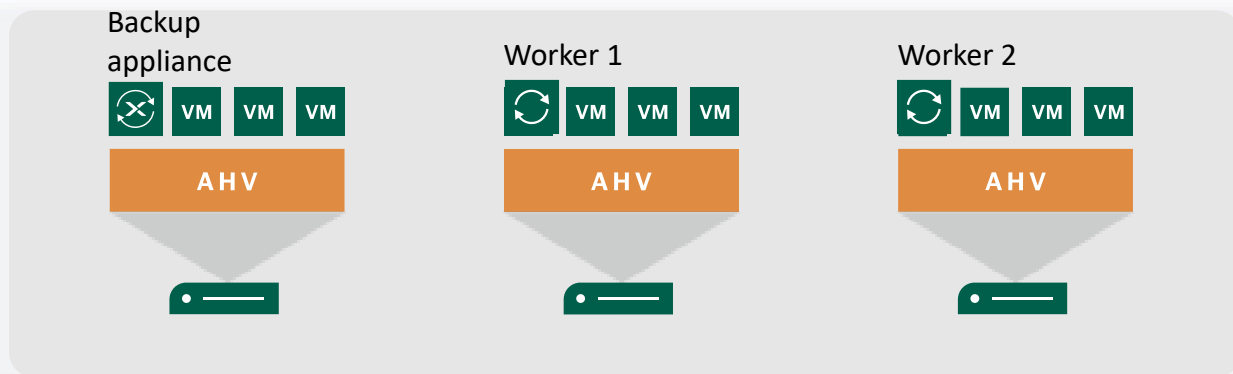


# Overview

Veeam Backup for AHV version 5 implements a number of highly anticipated features along with numerous incremental improvements.

## Enterprise Scale

While our longstanding single proxy appliance scale-up model was perfectly suitable for the overwhelming majority of customers, very large implementations required more. Specifically, the new v5 proxy appliance scale-out model addresses the potential compute and networking throughput limitations presented by a single VM running on a single node communicating through a single CVM. With the prior single proxy appliance approach while a highly scaled-up proxy appliance would not consume compute cycles when idle it would continue to reserve RAM that was not actively in use. Worker VM's are powered off when not performing backup/restore operations to mitigate any unnecessary resource consumption. The v5 "worker" model dynamically deploys proxy VM's across a Nutanix cluster to maximize parallel processing. Worker VM's are deployed automatically from the base appliance image which is now a persistent Prism Element image. Worker VM's also support node affinity so that backup administrators may distribute proxy processing in a manner best suited to their environment.



## Security

v5 implements optional multi-factor authentication (MFA) for all appliance access methods (web UI, SSH and API). MFA is configured per user profile and is compatible with any standard one time password (OTP) implementation.

In addition to MFA, v5 also introduces role-based access control (RBAC) for increased operational security granularity.

Veeam Backup & Replication v12.1 extends the security capabilities of Veeam Backup v5.0+ for Nutanix

AHV in a number of significant ways:

Surebackup 'lite' scheduled malware scans are now available for AHV backups.

Real-time ad-hoc YARA and antivirus scans may now be initiated from the Veeam Backup & Replication console.

"Four-eyes" authorization may be enabled so that destructive operations (backup deletions, etc.) require more than one administrator to proceed.

Backup repositories secured with KMS-issued keys can now host AHV backups

## Data Platform Integration

AHV backups jobs can now be fully managed (create, modify, delete) from the Veeam Backup & Replication UI for a more single pane of glass management experience.

AHV job, bottleneck and system activity visibility within Veeam Backup & Replication is also significantly expanded.

## Performance

v5 implements Veeam Bitlocker technology to exclude "dirty" blocks from backup processing for Windows NTFS volumes.

CBT read ahead has been implemented for improved processing efficiency.

## Cloud

Added full support for Azure AHV clusters (NC2) along with expanded recovery capabilities for both Azure and AWS. Overlay network settings now preserved for restore operations.

## Job Controls

An entire AHV cluster can now be selected as job source.

A backup scope can contain a combination of resources (VM, PD, cluster) to be included or excluded. Exclude rules override include rules.

Disk rules can be specified for any object (VMs, PDs, Cluster). More specific rules override less specific ones.

Exclusions can be now configured in snapshot and PD snapshot jobs.

VMs can be selectively prioritized in a job to designate VM processing order.

## General

A retry button has been added in the web console to retry the backup operation for individual VMs that failed to back up during a job run.

Backup jobs can now be cloned in the web console to ease creation of new jobs.

Support for defining an internet proxy to enable deb repository updates for both the backup appliance and worker VM's.

Instant recovery for non-AHV workloads has been enhanced to allow greater flexibility in assigning disk bus types. For cases where the workload-native bus type cannot be allocated, administrators are now able to specify a priority assignment order i.e. SATA, IDE, PCI, SCSI or some other ordering. Alternately the original bus type can be ignored altogether in which case disk bus types will be assigned using the specified priority order.

Publishing AHV VM disks to Windows or Linux hosts is now supported.