

RELEASE NOTES

HYCU Data Protection for Enterprise Clouds

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HYCU

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What is new in this version of HYCU

This release of HYCU introduces a variety of new backup and recovery features, key enhancements, and fixes that will help you keep your data protected and safe in a simple and efficient way.

Extended volume group protection

HYCU now enables you to protect volume groups with fast and reliable backup and restore operations independent of virtual machine protection. After you back up a volume group, you can choose to restore either the whole volume group or only individual virtual disks by exporting them to an external share.

Backup validation

You can now validate the virtual machine backup and, by doing so, verify that the virtual machine has no corrupted backups. The virtual machine backup validation can be performed either by using the Validate VM backup option, or by setting up a validation policy and scheduling automatic backup validation.

Malware protection

To help protect your data protection environment against malware attacks, events are now created in the following cases:

- If public access is enabled for the target on which backup data is stored.
- If HYCU detects that the data change rate of the last incremental backup is 25% or more compared to the average data change rate of the previous incremental backups performed for the protected virtual machine or volume group. 25% is the default value that you can adjust to the needs of your data protection environment.

Including disks in the backup

The virtual machine backup configuration options have been expanded to allow you to specify disks or volume groups that you want to include in the backup. By including disks in the backup, you can make sure that only the specified disks are protected, and any temporary disks are automatically excluded from the backup.

Introduction of a copy window

When creating a new policy or editing an existing one, you can now specify a copy window. By doing so, you define time frames when your backup copy jobs are allowed to start, therefore improving effectiveness and avoiding an overloaded environment. For example, you can schedule your backup copy jobs to run on non-production hours to reduce loads during peak hours.

Simplified management of Nutanix Objects targets

HYCU now allows you to add a Nutanix Objects target as a separate target type. The new target type is displayed in the Mine Storage widget in the Nutanix Mine with HYCU dashboard.

Webhooks as a notification channel

You can now configure HYCU to send webhook notifications when new events occur in your data protection environment. Setting up webhooks as a notification channel (in addition to or as an alternative to emails) allows you to monitor and manage your data protection environment more efficiently, and to immediately respond to the events if required.

Backup of large disks to cloud targets

HYCU now allows you to store backup data, copies of backup data, and data archives of virtual machine disks larger than 5 TiB to Azure, Google Cloud, AWS S3/Compatible, and Nutanix Objects targets.

Other enhancements and fixes

The following is a list of other enhancements and fixes that come with this release of HYCU:

- Automatic assignment of policies to virtual machines has been extended to allow the following:
 - Specifying the Exclude policy. This enables you to automatically exclude virtual machines from the backup.
 - Adding the same key with different values to HYCU if the category in Nutanix Prism includes more than one value.
 - Protecting virtual machines based on tags assigned to virtual machines in VMware vSphere.
- Compliance calculation has been enhanced to include the entire backup copy chain.

Also, the calculation speed for most cases has been improved.

- Possibility to select which available tier (snapshot, backup, copy, or archive) should be used when performing the following operations:
 - Restoring individual files
 - Restoring file shares
 - Restoring applications
 - Migrating virtual machines and applications to cloud
- You can now enable the Optimized SQL Server HADR protection option for SQL Server databases that are part of an Always On Availability Group and are running on Windows virtual machines. By doing so, you run backups only on the secondary replica with the highest backup priority.
- By pausing on the progress bar of a particular job task (for example, Backup data), additional information about the task is available, such as how much data has already been backed up and when the progress time has been last updated.
- A target can now be configured as metered, ensuring that during automatic tier selection, available tiers are used in a way that minimizes costs.
- If you use Smart disaster recovery (DR) for Nutanix Files protection, HYCU enables you to protect replicated file share data.
- Performance has been significantly improved when purging events and jobs.
- Linux physical machines can now be configured in a way that allows HYCU to use storage outside of LVM volumes for storing snapshots. This enables you to back up a Linux physical machine even if you cannot provide the required space for LVM snapshot storage in each volume.
- HYCU reporting has been enhanced to allow you to specify a custom time range for the report.
- The HYCU web user interface has been enhanced to allow you to select all items on all pages in the corresponding panels at once by simply holding down Ctrl while selecting the check box in the header row with titles.
- Support for the following:
 - Oracle 19c
 - Red Hat Enterprise Linux 8.x as a physical machine operating system
 - Nutanix Files 3.8.1.2

Installation notes

For Nutanix AHV clusters, the HYCU virtual appliance is distributed as a virtual disk image and you can easily deploy it by using the Nutanix Prism web console.

For Nutanix ESXi clusters and VMware vSphere environments, the HYCU virtual appliance is distributed as a virtual appliance package (virtual disk image and OVF template) and you can easily deploy it by using the vSphere (Web) Client.

For detailed information about deploying the HYCU virtual appliance, see the *HYCU User Guide*.

Upgrade notes

Upgrading HYCU to version 4.3.0 is possible only from version 4.2.1. If you have an older version of HYCU, you first need to upgrade it to 4.2.1.

For detailed information about upgrading HYCU, see the *HYCU User Guide*.

If after upgrading HYCU you run into any of the following issues, do as follows:

Issue	Solution
Cannot assign a policy to an already discovered SQL Server instance that is part of an Always On Availability Group.	Reassign credentials to the SQL Server instance.
<i>Nutanix ESXi clusters only.</i> Cannot restore a virtual machine.	Make sure the storage container to which you want to restore data is mounted on ESXi hosts. For details on how to mount the storage container on the hosts, see Nutanix documentation.

Supported environments

For information about supported environments and compatibility with other products, see the *HYCU Compatibility Matrix*. This document is available as part of the HYCU documentation set that is distributed together with the product.

The most recent version of the *HYCU Compatibility Matrix* is located at <https://support.hycu.com>.

Limitations

Some limitations apply when FIPS mode is enabled. For details, see *HYCU Help*.

HYCU documentation set

The HYCU documentation set includes the following documents:

Document	Document file name	Distributed with the product ^a	Published online on the HYCU Customer Support portal
<i>HYCU Help</i>	index.html	✓	×
<i>HYCU User Guide</i>	HYCU_UserGuide.pdf	✓	✓
<i>HYCU Compatibility Matrix</i>	HYCU_CompatibilityMatrix.pdf	✓	✓
<i>HYCU Release Notes</i>	HYCU_ReleaseNotes.pdf	✓	✓
<i>HYCU Troubleshooting Guide</i>	HYCU_TroubleshootingGuide.pdf	✓	✓
<i>HYCU Open Source Licenses</i>	HYCU_OpenSource.pdf	✓	×

^a The HYCU documentation is located in the /help folder on the HYCU backup controller and can be accessed from the web browser: <https://<ServerName>:8443/help/en/<DocFileName>>.

Translated documentation

The following HYCU documents are translated:

Document	Translated into Japanese
<i>HYCU Help</i>	✓
<i>HYCU User Guide</i>	✓
<i>HYCU Compatibility Matrix</i>	✓
<i>HYCU Release Notes</i>	✓
<i>HYCU Troubleshooting Guide</i>	✓
<i>HYCU Open Source Licenses</i>	×

^a The translated HYCU documentation is located in the /help folder on the HYCU backup controller and can be accessed from the web browser: <https://<ServerName>:8443/help/ja/<DocFileName>>.

Provide feedback

For any suggestions and comments regarding this product or its documentation, send us an e-mail to:

info@hycu.com

We will be glad to hear from you!

