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.

Data protection for Dell EMC PowerScale OneFS

HYCU has expanded its file share protection with support for Dell EMC PowerScale OneFS (previously known as Isilon) shares. With true native integration for PowerScale OneFS through REST APIs, you gain a powerful data-consistent backup for both NFS and SMB shares. Additionally, by using PowerScale OneFS Snapshot change list, you gain a highly efficient incremental backup (with lower RPOs) that can meet the most stringent backup SLAs.

WORM support for Google Cloud and Azure targets

Backing up data to Google Cloud targets that have Bucket Lock (WORM) enabled and to Azure targets that have the immutability policy (WORM) set is now supported.

Incremental forever archives for object storage targets

HYCU now supports incremental forever archives of virtual machines, Nutanix volume groups, and physical machines. This allows you to archive backups through one full backup followed by subsequent infinite incremental backups, which, in turn, can be easily expired by using HYCU's efficient retention policy. You can now achieve significant capacity savings on your backup storage costs. At the same time, with HYCU's unique block-based tracking, you can enjoy efficient granular and full restores with zero performance penalty which is an issue with alternate legacy solutions due to oftentimes a long incremental backup chain.

Enhanced scheduler

You can now take advantage of an enhanced scheduler that gives you more flexibility when you are setting up data archives and policies for backup validation. Besides providing you

with an easy-to-navigate and intuitive user interface experience, it allows you to schedule archiving and backup validation operations to be performed on a daily basis, on one or more days of the week, on the same day or a specific day of the month, as well as on the same day or a specific day of the year.

Introduction of secrets management

HYCU now enables you to securely store, access, and manage your credentials (secrets) by employing the Conjur secrets management solution. After you store your secrets in Conjur as one or more Conjur configurations (that is, a set of one or more policies where you define your security rules), you can easily manage them and be confident that your resources can be accessed only by authorized parties.

HYCU Protégé extended to support Azure US Government

The HYCU Protégé data management solution has been extended to allow you to migrate protected data from your on-premises environment to Azure US Government. In the event of a disaster in the on-premises environment, HYCU Protégé now also provides disaster recovery of data to Azure US Government.

Extended physical machine protection

You can now clone and migrate to cloud physical machines that use UEFI firmware. Additionally, protecting physical machines with secure boot enabled is now also supported.

Other enhancements and fixes

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

- As an alternative to assigning the default policy to all entities, you can now assign the default policy only to the preferred set of entities (virtual machines, applications, volume groups, and/or file shares) in your data protection environment.
- When restoring data, validating virtual machine backups, archiving data manually, recreating snapshots, or migrating data, HYCU now informs you if the selected restore point has an incomplete backup chain that prevents it from performing the operation from this tier.
- Additional network options have been introduced in HYCU Protégé to allow you to do the following when you migrate virtual machines to Azure or Azure US Government:
    - Select a network based on the subscription that you selected for the migrated virtual machine.

    - Configure public or private IP addresses for the network interface that will be added to the migrated virtual machine.
    - Migrate the virtual machine without a public IP address.
- Establishing secure WinRM, LDAPS, and SMTP connections has been significantly simplified by allowing you to use private and public CA certificates.
- If you are protecting applications or restoring individual files, establishing a connection from the virtual machine to the HYCU backup controller through port 8443 is no longer required.
- Synchronization of imported targets has been introduced, allowing you to keep your recovery HYCU backup controller regularly updated to stay prepared for disaster recovery at any time.
- HYCU now lists the members of the Active Directory group as individual users.
- For easier integration of HYCU with identity providers, all supported types of identity providers can now be managed from the same dialog box.
- The overall web user interface experience has been enhanced, allowing you to more intuitively add and edit targets for storing your data.
- Log files are now automatically truncated after backing up Exchange Server applications in vSphere environments.
- Support for the following:
    - Nutanix AOS 6.1
    - Nutanix Files 4.0.2 and 4.0.3

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 4.5.0 is possible only from version 4.3.1. If you have an older version of HYCU, you first need to upgrade it to 4.3.1.

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.
Nutanix ESXi clusters only. 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
HYCU Help	index.html	✓	×
HYCU User Guide	HYCU_UserGuide.pdf	✓	✓
HYCU Compatibility Matrix	HYCU_CompatibilityMatrix.pdf	✓	✓
HYCU Release Notes	HYCU_ReleaseNotes.pdf	✓	✓

HYCU Troubleshooting Guide	HYCU_TroubleshootingGuide.pdf	✓	✓
HYCU Open Source Licenses	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
HYCU Help	✓
HYCU User Guide	✓
HYCU Compatibility Matrix	✓
HYCU Release Notes	✓
HYCU Troubleshooting Guide	✓
HYCU Open Source Licenses	×

[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!

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