

Scale to Microsoft Azure with Backup Exec



OVERVIEW

The Microsoft-Veritas partnership is based on many years of collaboration, development and support, with proven results in enterprises and small businesses worldwide. The close relationship between Veritas and Microsoft ensures that customers will benefit from the innovation and the highest-quality data protection in the cloud with Azure.

It's no secret that the industry is rapidly evolving toward hybrid IT architectures and this journey will include extending the on-premises data center to both public and private clouds. In fact, a Veritas cloud survey reports that two-thirds (67 percent) of enterprises already use or plan to use a multi-cloud model and a quarter of respondents (25 percent) plan to use four or more cloud providers.¹ With this rapid expansion into cloud, establishing an effective data backup, protection, and recovery program can be challenging. For example, your organization will likely have to deal with:

- **Data Growth:** Ever-expanding volumes of data and the need to protect it.
- **Flexibility:** Protection and recovery strategies must be tailored to your business.
- **Cost and Complexity:** Multiple, complicated point solutions are expensive and inefficient to manage
- **Compliance and accessibility:** Meeting regulatory requirements while keeping data safe and easily accessible.

Managing and protecting data no matter where it resides is a key success factor when leveraging the cloud. To simplify and accelerate your journey toward digital transformation, it's important to ensure your data protection solution enables you to easily unify and extend the management of workloads and data whether on-premises on disk or on tape. Whether backing up to the cloud, protecting workloads within the cloud or recovering a whole site to the cloud, Veritas Backup Exec integrates with Microsoft Azure to seamlessly unify data protection.

BACKUP EXEC WITH MICROSOFT AZURE BENEFITS

- Simplify data protection to secure, scalable, cloud-based Azure services.
- Reduce and convert CapEx to a more predictable and manageable pay-as-you-go OpEx cost structure.
- Replace cumbersome and expensive tape backup and administration process with easy-to-use Microsoft Azure Storage.
- Minimize RPO and RTO with integrated DRaaS powered by Azure Site Recovery



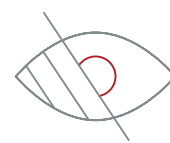
Simplify Backup



Reduce Costs



Eliminate Tape



Gain Greater Visibility

MICROSOFT AZURE

Microsoft Azure is an open, flexible, enterprise-grade cloud computing platform. Azure integrates with your existing IT environment through the largest network of secure private connections, hybrid database and storage solutions and data residency and encryption features—so your assets stay right where you need them. Azure Storage is the cloud storage solution for modern applications that rely on durability, availability and scalability to meet the needs of customers. Azure Storage is massively scalable, allowing you to store and process hundreds of terabytes of data, and is accessible from anywhere in the world, from applications running in the cloud, on the desktop, in the data center, or on a mobile device.

There are three scenarios to consider when integrating your backup and recovery strategy with the Azure cloud infrastructure:

Send Backups to Azure—Copy on-premises data to and restore it from Azure Storage using Backup Exec. Backup strategies include:

- **Disk to Disk to Cloud (D2D2C)**—Data is initially backed up to on-site disk, deduplication storage, appliance or VTL, and a copy is then sent to Azure Storage.
- **Disk to Cloud (D2C)**—Deduplicated data is backed up over the WAN directly to Azure Storage and there is no on-site storage of backup data.

Protect Data within Azure—Workloads and data are protected within the Microsoft Azure cloud environment using Backup Exec infrastructure hosted in Azure. Backup strategies include:

- **Cloud-to-cloud (C2C) backup**—Deploy Backup Exec with a marketplace template to protect Azure workloads, utilizing various Azure storage tiers and availability zones for backup data.
- **Cloud to on-premises backup**—Deploy Backup Exec with a marketplace template to protect Azure workloads, and send backup data back to on-premises storage devices.

Integrate Protection with Azure Site Recovery—Direct integration with Azure Site Recovery helps minimize the recovery point objective (RPO) and recovery time objective (RTO) of data and application availability and ensure resiliency against sitewide issues with cloud-based disaster recovery.

SEND BACKUPS TO AZURE

With the ability to optimize data transfer and reduce risk, Backup Exec brings the benefits of Azure Storage to organizations that want to augment or replace existing on-premises disk and tape storage.

- Unified, Integrated and Seamless Data Protection with Backup Exec.
- Manage the backup and recovery of data in and out of Azure in minutes thanks to Backup Exec's easy setup.
- Leverage pay-as-you go cloud consumption model to scale costs precisely.
- Eliminate tape backups and reduce storage costs with deduplication to the cloud.

Backup Exec enables connections to Azure hot and cold storage tiers. In this configuration the on-premises data center runs normal backup operations and backup data is copied to Azure Storage via the Backup Exec Azure cloud connector (see Figure 2). With this approach, you can move archived data or data that's not frequently accessed to the cloud via native integrations and keep critical data that needs to be accessed more frequently on-premises.

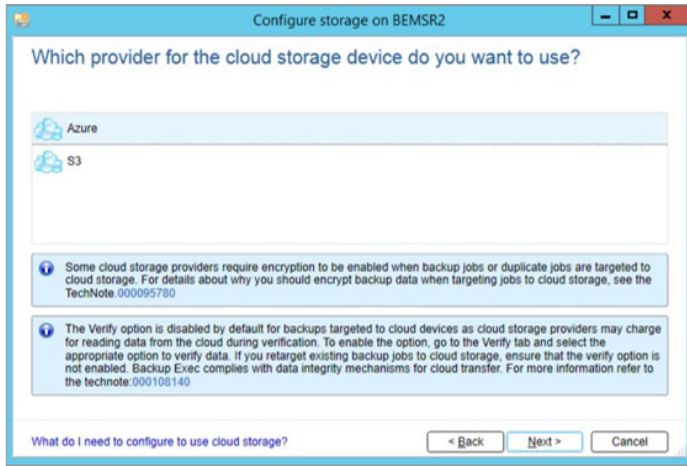


Figure 1. Access the Backup Exec Azure cloud connector under the Storage Configuration Wizard.

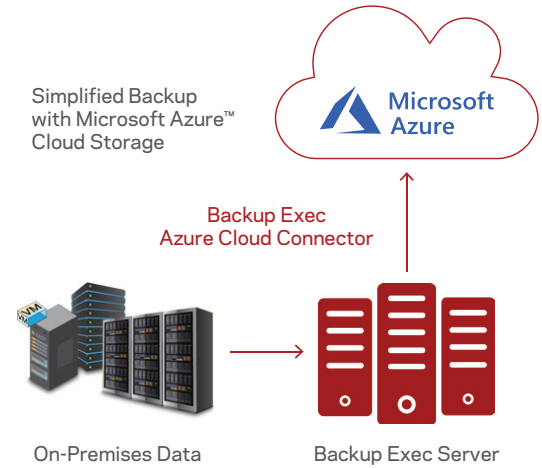


Figure 2. Backup Exec can transfer and store data in Azure using the Backup Exec Azure cloud connector.

Benefits of this approach with Backup Exec include:

- Visibility into your data no matter where it resides.
- Shift of storage costs to a pay-as-you-go operating expense (OpEx) model.
- Storage of data off-site in case a disaster should strike.
- Source operational recoveries with on-premises storage.
- Nothing to install - Native credential-based connection to an Azure storage target does not require an additional license or option for Backup Exec - or any special agents to install.

PROTECT DATA WITHIN AZURE

Organizations who want to shift from CapEx to OpEx spending models are moving workloads to the cloud. Backup Exec extends backup and recovery capabilities to the cloud to support this evolution. Backup Exec delivers the flexibility to protect data in Azure without requiring new tools, processes or additional time and resources.

Backup Exec is available as a ready-to-install offering in the Azure Marketplace. You can quickly provision a Backup Exec server using the Azure Marketplace template with a one-click deployment. Installing Backup Exec from the Azure Marketplace lets you benefit immediately from an inexpensive and easy-to-operate solution for protecting Azure workloads. Together with Backup Exec's proven success protecting on-premises business applications, you get a true single management interface for all data: virtual, physical or cloud.

In addition, the use of Optimized Duplication (Opt-Dup) can also turn a cloud deployment into a disaster recovery strategy by providing replication to cloud storage and recovery-in-place when a recovery is needed (see Figure 4).

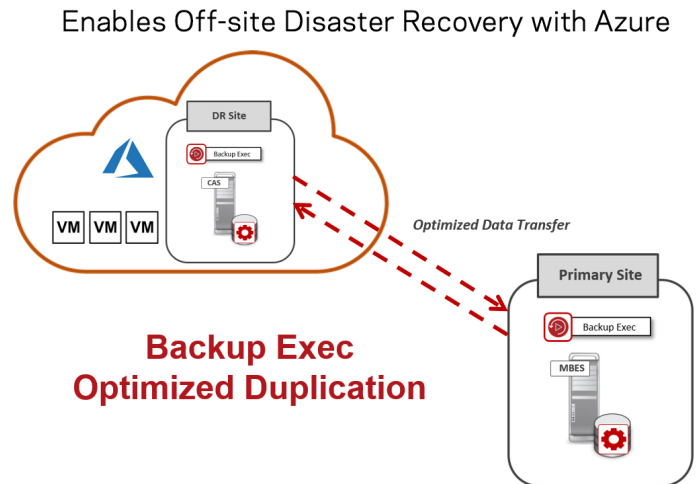


Figure 3. Install Backup Exec in Azure to protect cloud-hosted data and workloads.

Backup Exec will ensure cloud storage environments are protected and applications running in the cloud can be recovered in the case of a disaster or corruption. When the Backup Exec platform is extended to protect a cloud storage environment, you can feel confident moving your applications to the cloud because you can rely on your existing Backup Exec infrastructure to protect your Azure Storage environment.

In this scenario, Azure cloud-based workloads are protected by hosting Backup Exec infrastructure in Azure alongside the workloads. Benefits of this approach with Backup Exec include:

- Flexibility and freedom to deploy workloads based on business needs without compromising data protection.
- A unified Backup Exec management interface and catalog regardless of workload location.
- Automatic replication, backup and recovery of many locations with Backup Exec Optimized Duplication.
- Easy and seamless replication to and recovery of data from remote branch offices and data centers in Microsoft Azure.
- Greater visibility across the entire virtual landscape whether data is located in physical data centers or cloud-based servers.

INTEGRATE WITH AZURE SITE RECOVERY

With Instant Cloud Recovery, Backup Exec integrates directly with Azure Site Recovery to ensure data and application availability with cloud-based disaster recovery (see Figure 4). This integrated disaster recovery as a service (DRaaS) solution can minimize RPO and RTO in the event of sitewide issues for business-critical sites or applications with offsite recovery to Azure. It can also completely eliminate the need for a second disaster recovery site, drastically reducing DR costs.

Name	Replication Health	Protection Status	Configuration Issues	Last Successful Failover	RPO	Validation Errors
Ritu-HyperV-VM	Healthy	Protected	1	7/13/2018 11:37:18 AM	1 minute [As on 7/13/2018 11:37:18 AM]	
ASR-HyperV	Healthy	Protected		7/13/2018 11:32:12 AM	2 minutes [As on 7/13/2018 11:32:12 AM]	
Ritu-VM2	Healthy	Protected		7/13/2018 11:32:12 AM	5 minutes [As on 7/13/2018 11:32:12 AM]	
TestHyperVOff	Not-Replicated	Unprotected				1
H2O-CFG-SVR2	Not-Replicated	Unprotected				1
H2O-CFG-SVR	Not-Replicated	Unprotected				
UbuntuMiniAR1	Not-Replicated	Unprotected				
ritu-w2k8	Not-Replicated	Unprotected				
2K12R2_Sandb...	Not-Replicated	Unprotected				1
Ritu-Sandbox_...	Not-Replicated	Unprotected				

Figure 4. Instant Cloud Recovery ensures data availability and cloud-based disaster recovery.

SUMMARY

As many businesses increasingly leverage the cloud for applications and services, they want to protect and manage those environments with a backup and recovery solution they can trust. Safeguarding your valuable data with Backup Exec delivers a host of key business benefits. Because Backup Exec can write data to the cloud, you gain the flexibility of adding cloud storage to reduce operational expenses or as part of a global disaster recovery strategy. Plus, you can use cloud storage backup to replace or augment tape-based off-site storage for disaster recovery readiness. Regardless of whether your organization has already moved workloads to the cloud, or if you are just getting started on your cloud journey, Backup Exec delivers multiple cloud options in a unified, easy-to-use platform.

HOW DO YOU GET STARTED?

1. Sign up for an Azure account.
2. Check if Microsoft offers some Azure capacity for free.
3. Search for Backup Exec in the Azure Marketplace.
4. Deploy the Backup Exec application image into an appropriate Azure machine instance.
5. Purchase an appropriate Backup Exec license from an authorized reseller and install it in the Backup Exec server.

1. Veritas [2019 Truth in Cloud Report](#)

ABOUT VERITAS

Veritas Technologies is a global leader in data protection and availability. Over 50,000 enterprises—including 87 percent of the Fortune Global 500—rely on us to abstract IT complexity and simplify data management. The Veritas Enterprise Data Services Platform automates the protection and orchestrates the recovery of data everywhere it lives, ensures 24/7 availability of business-critical applications, and provides enterprises with the insights they need to comply with evolving data regulations. With a reputation for reliability at scale and a deployment model to fit any need, Veritas Enterprise Data Services Platform supports more than 800 different data sources, over 100 different operating systems, more than 1,400 storage targets, and more than 60 different cloud platforms. Learn more at www.veritas.com. Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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