CARBONITE

Carbonite Server VM protection

How our hypervisor-based backup enables flexible protection and recovery for virtual machines

In addition to protecting valuable business data that resides on physical servers and legacy systems, Carbonite Server also protects virtual machines using purpose-built backup technology that works at the hypervisor level. This enables fast, flexible recovery of VM data in minutes. The VM protection feature in Carbonite Server is fully cloud-integrated, so there's no need to procure additional cloud services.

Protect and perform

With Carbonite Server deployed on a local machine, backups are consolidated onsite before additional cloud backup. Carbonite Server uses advanced compression to reduce the size of backups. Once the initial backup is complete, the solution performs forever-incremental backups, enabling greater backup frequency and minimizing data loss.

Restore options

IT managers in charge of administering protection have several options for scheduling backups and recovering VM data. Flexible restore options include full VM restore (including cross-hypervisor restore), and granular recovery of files, folders and application data (Exchange, SharePoint, SQL, Active Directory). Rapid restore options allow users to restore directly on the backup server in under two minutes – or restore multiple VMs onto any hypervisor.

With the ability to spin up VMs on the backup server, IT can easily create a test environment, verify functionality and generate a backup integrity report. Carbonite Server also enables businesses to create separate retention policies for onsite and cloud backup. Recent backups can be kept on local storage, while version history is stored safely in the cloud for up to seven years.

How it works

The local backup server connects to the host and takes an agentless backup of the selected VMs. The backed-up data is compressed, reducing the data footprint and accelerating cloud uploads, since less data goes to the cloud.

Key features & benefits

- Secure local and cloud backup with optional, integrated hardware – all from one vendor

- Compressed, encrypted, forever-incremental backups (AES 256-bit, in-flight and at rest)

- Restore to hypervisor (ESXi, vCenter, Hyper-V, including cross-hypervisor restore)

- Recover directly from backup in under two minutes

- Granular recovery (files, folders, Exchange, SharePoint, SQL, Active Directory)

- Mount backup data for fast granular access

- Download or restore a virtual disk (VHD, VMDK, RAW, etc.)

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Once seeded, the server performs incremental backups, recording only changes. The backup server updates on schedule every 15 minutes – or longer if so configured – while securely sending changes to the cloud on a separate schedule.

There are multiple options for recovering a failed VM:

1. Restore one or multiple VMs onto any hypervisor.

2. Recover by spinning up a VM on the backup server and restoring directly from backup.

3. Perform granular restore of files, folders or application data.

Carbonite Server can also facilitate cloud recovery of VM data for disaster recovery scenarios.

To learn more, contact your Carbonite representative today.

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Supported platforms

Host:

- VMware vSphere 5.5 and greater

- Microsoft Server Hyper-V 2012 R2 and 2016

Guest:

- All OSs and applications supported by VMware

- All OSs and applications supported by Hyper-V

Granular Restore:

- Files/folders

- Microsoft Exchange

- Microsoft SQL databases and tables

- Microsoft SharePoint

- Microsoft Active Directory