

Virtual Infrastructure

<https://campus.barracuda.com/doc/78809368/>

Barracuda Networks recommends ensuring the latest hotfixes, patches, and updates are installed on your data sources.

Barracuda Backup provides support for the versions and platforms listed in the following tables.

Virtual Infrastructure

Type	Specification	Requirements
VMware	Platform	<ul style="list-style-type: none"> • vSphere 6.7 • vSphere 6.5 • vSphere 6.0 • vSphere 5.5
	Hypervisors	<ul style="list-style-type: none"> • ESXi 6.7 • ESXi 6.5 • ESXi 6.0⁽¹⁾ • ESXi 5.5 <p>Free ESXi not supported. Barracuda Backup leverages vSphere and vStorage APIs which VMware has disabled in free ESXi.</p>
	Management Server (optional)	<ul style="list-style-type: none"> • vCenter Server 6.x (optional) • vCenter Server 5.x (optional)
Microsoft Hyper-V	Platform	<ul style="list-style-type: none"> • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 • Windows Server 2008 R2⁽²⁾ • Windows Server 2008

	Hypervisors	<ul style="list-style-type: none"> • Hyper-V Server 2019 • Hyper-V Server 2016 • Hyper-V Server 2012 R2 • Hyper-V Server 2012 • Hyper-V Server 2008 R2 • Hyper-V Server 2008 • Hyper-V Server (free hypervisor)
	Management Server (optional)	<ul style="list-style-type: none"> • Microsoft System Center Virtual Machine Manager 2019 (optional) • Microsoft System Center Virtual Machine Manager 2016 (optional) • Microsoft System Center Virtual Machine Manager 2012 R2 (optional) • Microsoft System Center Virtual Machine Manager 2012 (optional) • Microsoft System Center Virtual Machine Manager 2008 R2 (optional) • Microsoft System Center Virtual Machine Manager 2008 (optional)

Notes:

⁽¹⁾ VMware has reported an issue with ESXi version 6.0.x where incorrect changed sectors are returned. When a virtual machine (VM) is running ESXi 6.0.x and Changed Block Tracking (CBT) is enabled, some change areas in data are not reported. When this occurs, that data is not recognized as changed and is not backed up; current and past incremental backups are potentially compromised. For more information, see the VMware knowledgebase solution [Backing up a Changed Block Tracking enabled virtual machine in ESXi 6.0.x returns incorrect changed sectors \(2136854\)](#) .

This issue is resolved in VMware ESXi 6.0 patch ESXi600-201511001. For more information, see [VMware ESXi 6.0, Patch Release ESXi600-201511001 \(2137545\)](#).

⁽²⁾ Microsoft does not support running Windows Server 2008/2008 R2 on Hyper-V Gen 2 VMs. Therefore, Windows Server 2008/2008 R2 physical machines with UEFI cannot be restored to Hyper-V.

Guest Virtual Machines

Type	Specification	Requirements
VMware	Virtual Hardware	<ul style="list-style-type: none"> • All types and versions of virtual hardware supported, including 62 TB VMDK. • VMs with disks engaged in SCSI bus sharing are not supported, because VMware does not support snapshotting such VMs. • RDM virtual disks in physical mode, independent disks, and disks connected via in-guest iSCSI initiator not supported and skipped from processing automatically. Network shares and mount points targeted to 3rd party storage devices are also skipped as these volumes/disks are not visible in the VM configuration file.
	Operating Systems	<ul style="list-style-type: none"> • All operating systems supported by VMware.

	Software	<ul style="list-style-type: none"> • VMware Tools (optional, recommended). VMware Tools required for the following operations: application-aware processing (quiesce). • All latest OS service packs and patches (required for application-aware processing).
Hyper-V	Virtual Hardware	<ul style="list-style-type: none"> • Supported virtual hardware versions 5.0 and 8.0 (Hyper-V 2016). • Both Generation 1 and 2 VMs supported, including 64 TB VHDX disks. • [For Microsoft Hyper-V 2016 Server VMs] Processing of VMs with pass-through virtual disks and disks connected via in-guest iSCSI initiator not supported. • [For Microsoft Hyper-V 2012 R2 server and earlier VMs] Pass-through virtual disks and disks connected via in-guest iSCSI initiator not supported and skipped from processing automatically.
	Operating Systems	<ul style="list-style-type: none"> • All operating systems supported by Hyper-V.
	Software	<ul style="list-style-type: none"> • Hyper-V integration components (required for application-aware processing)

File-Level Restore from Guest Virtual Machines (LiveBrowse)

Virtual Disk Formats	Supported: <ul style="list-style-type: none"> • VHD/VHDX Fixed • VHD/VHDX Dynamic • VMDK Thin • VMDK ZeroedThick • VMDK EagerZeroedThick Unsupported: <ul style="list-style-type: none"> • VHD/VHDX Differencing
Partition/Volume Structures	Supported: <ul style="list-style-type: none"> • Master Boot Record (MBR) Disks • GUID Partition Table (GPT) Linux Logical Volume Manager (LVM) <ul style="list-style-type: none"> ◦ Single disk/volume only, multiple LVM partitions cannot be LiveBrowsed

File Systems	Supported: <ul style="list-style-type: none"> • NTFS • FAT • FAT32 • ext2 • ext3 • ext4 • XFS • BTRFS • ReiserFS Unsupported: <ul style="list-style-type: none"> • ReFS • Windows Data Deduplication Role/Feature
Windows Volumes	Supported: <ul style="list-style-type: none"> • Simple Unsupported: <ul style="list-style-type: none"> • Spanned • Striped • Mirrored • RAID 5 volumes
Disk Sizes	Unsupported: <ul style="list-style-type: none"> • Virtual disks larger than 16TB

VMware Virtual Machine (LiveBoot) Instant Recovery

Type	Operating System	Supported File Systems
VMware	Operating Systems	<ul style="list-style-type: none"> • All operating systems supported by VMware⁽¹⁾
	File Systems	<ul style="list-style-type: none"> • FAT • FAT32 • NTFS • ext2 • ext3 • ext4 • ReiserFS • JFS • XFS • Btrfs

Note: ⁽¹⁾ See [VMware Guest Operating System Installation Guide](#) for a list of operating systems supported by VMware.

VMware and Hyper-V Virtual Machine Cloud Recovery (Cloud LiveBoot)

Type	Operating System	Supported File Systems
VMware	Operating Systems	<ul style="list-style-type: none"> • All operating systems supported by VMware.
	File Systems	<ul style="list-style-type: none"> • FAT • FAT32 • NTFS • ext2 • ext3 • ext4 • ReiserFS • JFS • XFS • Btrfs
	Other	<ul style="list-style-type: none"> • Maximum of 4 virtual disks per guest VM supported. • VMware EFI partitions not supported by Cloud LiveBoot.
Hyper-V	Operating Systems	<ul style="list-style-type: none"> • All operating systems supported by Hyper-V.
	File Systems	<ul style="list-style-type: none"> • FAT • FAT32 • NTFS • ext2 • ext3 • ext4 • ReiserFS • JFS • XFS • Btrfs
	Other	<ul style="list-style-type: none"> • Both Generation 1 and 2 VMs supported. • UEFI partitions not supported by Cloud LiveBoot. • Maximum of 4 virtual disks per guest VM supported. • Windows Dynamic Disk partitions supported by Cloud LiveBoot. • Differencing disks (.avhd/.avhdx) configurations not supported by Cloud LiveBoot.

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