

# Veritas™ Resiliency Platform Hardware and Software Compatibility List

# Veritas Resiliency Platform Hardware and Software Compatibility Guide

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# Resiliency Platform Compatibility List

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## Common limitations

[Common limitations](#) lists the features that are not supported in one or more environments using Resiliency Platform.

**Table 1-1** Common limitations

<b>Feature not supported</b>	<b>Applicable to</b>
VMware fault tolerant virtual machines	VMware environment using third-party replication VMware environment using Resiliency Platform Data Mover replication
Shared Raw Device Mapping (RDM)	VMware environment using Resiliency Platform Data Mover replication

**Table 1-1** Common limitations (*continued*)

Feature not supported	Applicable to
<p>For EFI (Extensible Firmware Interface) enabled VMware: In-guest replication or NetBackup backed VMs on NetBackup version 8.1 &amp; 8.1.1 is not supported. However, it supports 3rd Party replication or VAIO based replication or with NetBackup version 8.1.2 and higher.</p> <p>For EFI enabled VMs on HyperV: Using Veritas Resiliency Platform Data Mover is not supported. Only 3rd Party replication is supported.</p>	<p>VMware or Hyper-V environment using Resiliency Platform Data Mover replication, or recovery of VMware environment to AWS cloud data center using NetBackup.</p>
32-bit operating systems	All environments
<p>UEFI is not supported for NetBackup versions 8.1 and 8.1.1. Also, UEFI is not supported for recovery from physical to virtual environment and for recovery from physical to cloud environment.</p>	

## Compatibility matrix for virtual appliances

[Table 1-2](#) lists the compatibility matrix for virtual appliances.

**Table 1-2** Compatibility matrix for virtual appliances

Virtualization Technology	Versions
VMware	<p>vCenter Server 5.5 U3e, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1</p> <p>ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1</p>

**Table 1-2** Compatibility matrix for virtual appliances (*continued*)

Virtualization Technology	Versions
Hyper-V	Windows Server 2012
	Windows Server 2012 R2
	Windows Server 2016

## Compatibility matrix for disaster recovery of virtual machines to Azure

Table 1-3 lists the compatibility matrix for disaster recovery of virtual machines to Azure.

**Table 1-3** Compatibility matrix for disaster recovery of virtual machines to Azure

Virtualization Technology	Versions	Supported guest operating systems
VMware	vCenter Server 5.5U3e, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7 U1	RHEL 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 6.10 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  SLES 11.4, 12.2, 12.3
	ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7 U1	Windows Server 2008 R2, 2012, 2012 R2, 2016
Hyper-V	Windows Server 2012 R2, 2016	Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- Linux virtual machines are not supported for Hyper-V virtualization technology.
- The replication technology for recovery to Azure is Veritas Resiliency Platform Data Mover.
- For Windows workload virtual machines, PowerShell version 2.0 is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have `NetworkManager-config-routing-rules` package installed on them.

- Multipathing is not supported inside virtual machines.
- RDM disk is supported in virtual and physical mode.

See “[Common limitations](#)” on page 5.

See “[Browser compatibility matrix](#)” on page 26.

See “[Compatibility matrix for virtual appliances](#)” on page 6.

## Compatibility matrix for disaster recovery of virtual machines to AWS

[Table 1-4](#) lists the compatibility matrix for disaster recovery of virtual machines to AWS.

**Table 1-4** Compatibility matrix for disaster recovery of virtual machines to AWS

Virtualization Technology	Versions	Supported guest operating systems
VMware	vCenter Server 5.5U3e, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7 U1  ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7 U1	RHEL 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  SLES 11.4, 12.2, 12.3  Windows Server 2008 R2, 2012, 2012 R2, 2016
Hyper-V	Windows Server 2012 R2, 2016	Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- Linux virtual machines are not supported for Hyper-V virtualization technology.
- The replication technology for recovery to AWS is Veritas Resiliency Platform Data Mover.
- For Windows workload virtual machines, PowerShell version 3.0 is supported with .Net version 4.5.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have `NetworkManager-config-routing-rules` package installed on them.
- Using China region for recovery to AWS is supported, but not qualified.



- Multipathing is not supported inside virtual machines.
- AWS paravirtual drivers (xen) need to be installed on SLES 11.4 virtual machines.
- RDM disk is supported in virtual and physical mode.
- Takeover operation from AWS cloud data center to on-premises data center is not supported.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

## Compatibility matrix for disaster recovery of virtual machines from on-premises data center to vCloud Director

[Table 1-5](#) lists the compatibility matrix for disaster recovery of virtual machines from on-premises data center to vCloud Director.

**Table 1-5** Compatibility matrix for disaster recovery of virtual machines from on-premises data center to vCloud Director

Virtualization Technology	Versions	Supported guest operating systems
VMware	vCenter Server 5.5 U3e to 6.0 U3, 6.5 U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1 ESXi 5.5U3 U3 to 6.0 U3, 6.5 U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1	RHEL 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5 CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5 Windows Server 2008 R2, 2012, 2012 R2, 2016

### Notes:

- vCloud Director versions 8.20, 9.1, and 9.5 are supported.
- The replication technology for recovery to vCloud Director is Veritas Resiliency Platform Data Mover.
- Linux virtual machines are not supported for Hyper-V virtualization technology.
- For Windows workload virtual machines, PowerShell version 2.0 is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5.

**Compatibility matrix for disaster recovery of virtual machines from vCloud Director to vCloud Director**

- RHEL hosts (version 7.0 and above) having multiple NICs need to have `NetworkManager-config-routing-rules` package installed on them.
- VMware Tools or OpenVM Tools (along with DeployPkg for OpenVM Tools version prior to 9.10) need to be installed on the workload virtual machines.
- Rehearse and cleanup rehearsal operations are not supported for recovery to vCloud Director.
- Virtual machines with NIC type E1000E are not supported for the use case of recovering VMware virtual machines to vCloud Director without adding vCenter Server.
- Takeover from vCloud Director to production (on-premises) data center is not supported, if virtual machines are configured for protection without adding Hyper-V Server or vCenter Server.
- RDM disk is supported in virtual and physical mode.
- Starting and stopping of resiliency groups is not supported for the use case of recovery of virtual machines to vCloud Director without adding the vCenter server or Hyper-V server.
- Multipathing is not supported inside virtual machines.

## Compatibility matrix for disaster recovery of virtual machines from vCloud Director to vCloud Director

[Table 1-6](#) lists the compatibility matrix for disaster recovery of virtual machines from vCloud Director to vCloud Director.

**Table 1-6** Compatibility matrix for disaster recovery of virtual machines from vCloud Director to vCloud Director

Cloud Technology	Versions	Supported guest operating systems
vCloud Director	8.20, 9.1, 9.5	RHEL 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- The replication technology for recovery to vCloud Director is Veritas Resiliency Platform Data Mover.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have NetworkManager-config-routing-rules package installed on them.
- For Windows workload virtual machines, PowerShell version 2.0 is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5.
- Rehearse and cleanup rehearsal operations are not supported for recovery from vCloud Director to vCloud Director.
- Evacuation plan is not supported for recovery from vCloud Director to vCloud Director.
- Multipathing is not supported inside virtual machines.
- Standalone virtual machines with vCloud 9.x are not supported with Resiliency Platform.

[1].

[2].

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

## Compatibility matrix for disaster recovery of virtual machines to OpenStack

[Table 1-7](#) lists the compatibility matrix for disaster recovery of virtual machines to Openstack.

**Compatibility matrix for disaster recovery of virtual machines to OpenStack****Table 1-7** Compatibility matrix for disaster recovery of virtual machines to Openstack

Virtualization Technology	Versions	Supported guest operating systems
VMware	vCenter Server 5.5U3e, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1 6.5U2, 6.5U3, 6.7, 6.7 U1  ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7 U1	RHEL 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  SLES 11.4, 12.2, 12.3  Windows Server 2008 R2, 2012, 2012 R2, 2016
Hyper-V	Windows Server 2012 R2, 2016	Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- This feature is in technical preview mode.
- Linux virtual machines are not supported for Hyper-V virtualization technology.
- The replication technology for recovery to OpenStack is Veritas Resiliency Platform Data Mover.
- For Windows workload virtual machines, PowerShell version 5.0+ is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5. However, when using PowerShell version 5.0+, ensure that you have enabled the MicrosoftWindowsPowerShellV2 service.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have `NetworkManager-config-routing-rules` package installed on them.
- virtIO drivers need to be installed on Windows virtual machines.
- Resync operation is not supported for recovery to OpenStack.
- Multipathing is not supported inside virtual machines.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

# Compatibility matrix for disaster recovery of virtual machines to HUAWEI CLOUD

[Table 1-8](#) lists the compatibility matrix for disaster recovery of virtual machines to HUAWEI CLOUD.

**Table 1-8** Compatibility matrix for disaster recovery of virtual machines to HUAWEI CLOUD

Virtualization Technology	Versions	Supported guest operating systems
VMware	vCenter Server 5.5U3e, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7 U1  ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5 U2, 6.5U3, 6.7, 6.7 U1	RHEL 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  SLES 11.4, 12.2, 12.3  Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- The replication technology for recovery to HUAWEI CLOUD is Veritas Resiliency Platform Data Mover.
- UVP VMTools software package needs to be installed on Windows virtual machines.
- For Windows workload virtual machines, PowerShell version 2.0 is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have `NetworkManager-config-routing-rules` package installed on them.
- SCSI device type for Elastic Volume Service (EVS) is not supported.
- ECS types that are based on Xen hypervisors are not supported.
- DaLian (CN Northeast) region is not supported.
- Multipathing is not supported inside virtual machines.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

# Compatibility matrix for disaster recovery using NetBackup images

[Table 1-9](#) and [Table 1-10](#) lists the compatibility matrix for disaster recovery using NetBackup Images.

**Table 1-9** Virtualization technology compatibility matrix

Virtualization Technology	Version
VMware	vCenter Server 6.0, 6.0U1, 6.0U2, 6.5, 6.5U1, 6.5 U2, 6.5 U3, 6.7 U1  ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.5, 6.5U1, 6.5 U2, 6.5 U3, 6.7 U1

**Table 1-10** NetBackup component compatibility matrix

Component	Version
NetBackup master server [2]	8.1, 8.1.1, 8.1.2, 8.2
NetBackup Auto Image Replication (AIR)	Targeted Auto Image Replication
NetBackup Appliance	Appliance 3.1 and 3.1.1  Appliance Model 52xx

**Notes:**

- NetBackup Master Server is supported with secure communication.
- From Resiliency Platform 3.4 onwards, IPv6 network is supported for adding NetBackup master server 8.1.1 and 8.1.2.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

# Compatibility matrix for disaster recovery of virtual machines using NetBackup Cloud Catalyst

[Table 1-11](#) and [Table 1-12](#) lists the compatibility matrix for disaster recovery using NetBackup Images.

## Compatibility matrix for disaster recovery of VMware virtual machines to on-premises data center using Resiliency Platform Data Mover

**Table 1-11** Virtualization technology compatibility matrix

Virtualization Technology	Version
VMware	vCenter Server 6.0, 6.0U1, 6.0U2, 6.5, 6.5U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1 ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.5, 6.5U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1

**Table 1-12** NetBackup component compatibility matrix

Component	Version
NetBackup master server	8.2
NetBackup Appliance	Appliance 3.1 and 3.1.1 Appliance Model 52xx
NetBackup Auto Image Replication (AIR)	Appliance 3.1 and 3.1.1 Appliance Model 52xx
NetBackup CloudCatalyst with Automated DR	8.2
NetBackup Cloud Recovery Server (CRS)	8.2

**Notes:**

- NetBackup master server is supported with secure communication.
- See [“Common limitations”](#) on page 5.
- See [“Browser compatibility matrix”](#) on page 26.
- See [“Compatibility matrix for virtual appliances”](#) on page 6.

# Compatibility matrix for disaster recovery of VMware virtual machines to on-premises data center using Resiliency Platform Data Mover

[Table 1-13](#) lists the compatibility matrix for disaster recovery of VMware virtual machines to on-premises data center using Resiliency Platform Data Mover.

**Table 1-13** Compatibility matrix for disaster recovery of VMware virtual machine to on-premises data center using Resiliency Platform Data Mover

Virtualization Technology	Version	Supported guest operating systems
VMware	vCenter 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1, 6.7 U2	RHEL 6.10, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4
	ESXi 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1, 6.7 U2	CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4 Suse 11.4, 12.2, 12.3 Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- RDM disk is supported in virtual mode.
- Protection of virtual machines residing on vSAN datastore is supported only for ESXi version 6.5 or later.
- Refer to the [VMware Compatibility Guide](#) for information about the VMware approved Resiliency Platform Data Mover replication filter.
- Refer to the [VMware Product Interoperability Matrices](#) to ensure that the vCenter server version supports the VMware vSphere Hypervisor version.
- From Resiliency Platform 3.4 onwards, IPv6 network is supported for vCenter server configuration.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

## Compatibility matrix for disaster recovery of virtual machines using third-party replication technology

[Table 1-14](#) lists the compatibility matrix for VMware and Hyper-V virtual machines, to be used for disaster recovery using third-party replication technology.

[Table 1-15](#) lists the compatibility matrix for third-party replication technology used with the virtual machines.



## Compatibility matrix for disaster recovery of virtual machines using third-party replication technology

**Table 1-14** Compatibility matrix for virtual machines

Virtualization Technology	Versions	Supported guest operating systems
VMware [14]	vCenter Server 5.5 U3, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5 U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1  ESXi 5.5 U3, 6.0, 6.0 U1, 6.0 U2, 6.0 U3, 6.5, 6.5 U1, 6.5 U2, 6.5 U3, 6.7, 6.7 U1	RHEL 6.10, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4  CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4  Suse 11.4, 12.2, 12.3  Windows Server 2008 R2, 2012, 2012 R2, 2016
Hyper-V [12], [13]	Windows Server 2012 R2, 2016	Windows Server 2008 R2, 2012, 2012 R2, 2016

**Table 1-15** Compatibility matrix for third-party replication technology for virtual machines

Replication Technology	Array software / Vendor component API/ CLI Version	Storage Model	VMware	Hyper-V
EMC SRDF [4]	EMC Solution Enabler 8.3 or lower version	Symmetrics DMX, VMAX	Supported	Supported
NetApp SnapMirror [1],[2],[3]	ONTAP 7.x and above (Netapp 7 mode), ONTAP 8.2.1, 8.3.2, 9.1 (Netapp cluster mode)	Netapp FAS series	Supported	Supported
Hitachi True Copy/Hitachi Universal Replicator	Command Control Interface (CCI) - 01-46-03/02	Hitachi USP, VSP	Supported	Supported
EMC Recover Point [9],[10],[11]	RecoverPoint 4.1, 4.4.1, 5.0, 5.1	VMX/Symmetrix, VNX/Clariion, EMC Unity	Supported	Supported
HPE 3PAR Remote Copy [5],[6]	V3.1 and 3.2	N/A	Supported	Supported

## Compatibility matrix for disaster recovery of virtual machines using third-party replication technology

**Table 1-15** Compatibility matrix for third-party replication technology for virtual machines (*continued*)

Replication Technology	Array software / Vendor component API/ CLI Version	Storage Model	VMware	Hyper-V
IBM XIV [7],[8]	XCLI version 4.1 to 4.8	N/A	Supported	Supported
IBM SVC [8]	7.1 and 7.3	N/A	Supported	Supported
Hyper- V Replica	N/A	N/A	N/A	Supported

**Notes:**

- Hyper-V is supported with NetApp LUNs but NetApp CIFS is not supported.
- The NetApp SnapMirror replication technology is supported with Async mode only.
- NFS, FC LUN, and iSCSI storage exported from NetApp arrays are supported.
- The EMC SRDF replication technology is supported with Sync and Async modes.
- Only non-shared RDM is supported for HPE 3PAR Remote Copy.
- The HPE 3PAR Remote Copy replication technology is supported only in periodic mode with the mirror\_config policy.
- IBM XIV Command Line Interface (XCLI) utility version 4.6 on a Linux system is not supported.
- Using IBM SVC and XIV replication technologies with Hyper-V virtual machines in Microsoft Failover Clustering environment is not qualified.
- VPLEX storage is not supported for EMC RecoverPoint.
- Only continuous remote replication (CRR) is supported for EMC RecoverPoint. Continuous data protection (CDP) and concurrent local and remote (CLR) replication are not supported.
- Shared and non-shared Raw Device Mapping (RDM) is supported for EMC RecoverPoint.
- Minimum Powershell version supported on Hyper-V Servers is 3.0.
- Microsoft Failover Cluster (MSFoC) environment is supported.
- VMware HA is supported.

**Compatibility matrix for disaster recovery of applications using third-party replication technology**

- Combination of storage from multiple array technologies is not supported.
- Combination of replicated and non-replicated storage to virtual machines is not supported.
- Raw device mapping (RDM) mapped replicated LUNs are not supported for virtual machine disaster recovery.
- From Resiliency Platform 3.4 onwards, IPv6 network is supported for configuration of 3PAR, RecoverPoint, and NetApp SnapMirror enclosures.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

## Compatibility matrix for disaster recovery of applications using third-party replication technology

[Table 1-16](#) lists the compatibility matrix for applications along with the supported platforms under physical, VMware, and Hyper-V environments.

[Table 1-17](#) lists the compatibility matrix for third-party replication technology used with applications.

**Table 1-16** Compatibility matrix for applications along with the supported platforms in physical, VMware, and Hyper-V environments

Applications	Version	Linux platforms	Windows platforms
Oracle RDBMS [1],[2],[11]	11g r2 12C r1	RHEL 6.5, 6.6, 6.7, 6.8, 7.0, 7.1, 7.2	Not supported
Microsoft SQL Server [3]	2012 2014	Not supported	Windows 2008 R2 SP1 Windows 2012 R2
Custom App	N/A	RHEL 6.5, 6.6, 6.7, 6.8, 7.0, 7.1, 7.2	Windows 2008 R2 SP1 Windows 2012 R2

**Compatibility matrix for disaster recovery of applications using third-party replication technology****Table 1-17** Compatibility matrix for third-party replication technology for applications

<b>Replication Technology</b>	<b>Array software / Vendor component API/ CLI Version</b>	<b>Storage Model</b>
EMC SRDF [7]	EMC Solution Enabler 8.3 or lower version	Symmetrics DMX, VMAX
NetApp SnapMirror [4],[5],[13]	ONTAP 7.x and above (Netapp 7 mode), ONTAP 8.2.1 and above (Netapp cluster mode)	Netapp FAS series
Hitachi True Copy/Hitachi Universal Replicator	Command Control Interface (CCI) - 01-46-03/02	Hitachi USP, VSP
EMC Recover Point [8]	RecoverPoint V4.1, 4.4.1, 5.0, 5.1	VMX/Symmetrix, VNX/Clariion, EMC Unity
HPE 3PAR Remote Copy [6],[13]	V3.1 and 3.2	N/A

**Notes:**

- Oracle RAC is not supported.
- Oracle 12C is supported in traditional mode.
- MSSQL 2012 and MSSQL 2014 are supported without AlwaysOn.
- For NetApp arrays, only the NFS and FC LUNs are supported, CIFS is not supported.
- The NetApp SnapMirror replication technology is supported with Async mode only.
- The HPE 3PAR Remote Copy replication technology is supported only in periodic mode with the mirror\_config policy.
- The EMC SRDF replication technology is supported with Sync and Async modes.
- For EMC RecoverPoint, only continuous remote replication (CRR) is supported. continuous data protection (CDP) and concurrent local and remote (CLR) replication is not supported.
- VMware HA environment is supported.
- Minimum Powershell version supported on Windows Servers is 3.0.

- Database user authentication is not supported for Oracle applications.
- Rehearse and cleanup rehearsal operations is not supported for applications inside virtual machines having data on raw disks mapped to virtual machines and data replicated through 3PAR RemoteCopy or NetApp SnapMirror through fibre channel.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

## Compatibility matrix for disaster recovery of InfoScale applications

[Table 1-18](#) lists the compatibility matrix for disaster recovery of InfoScale applications.

**Table 1-18** Compatibility matrix for disaster recovery of InfoScale applications

Component	Version	Details
Veritas InfoScale Operations Manager [3]	7.0, 7.1, 7.2, and 7.3 HF1 onwards	Supported on Linux and Windows Supported in standalone and HA configuration
Veritas Cluster Server (VCS) [1],[2]	6.0 and above	Supported on AIX, Linux, Solaris, and Windows operating systems

**Notes:**

- All VCS supported configurations are supported for both Application and Replication technology.
- The GCO failover policy must be manual.
- Veritas InfoScale Operations Manager 7.3 version is not supported.
- Custom script execution is not supported for Veritas InfoScale Operations Manager versions 7.3 and 7.4.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

# Compatibility matrix for disaster recovery of virtual machines to Orange Recovery Engine

The following table lists the compatibility matrix for disaster recovery of virtual machines to Orange Recovery Engine.

**Table 1-19** Compatibility matrix for disaster recovery of virtual machines to Orange Recovery Engine

Virtualization Technology	Versions	Supported guest operating systems
VMware	vCenter Server 5.5U3e, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5U2, 6.5U3, 6.7, 6.7 U1  ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5 U2, 6.5U3, 6.7, 6.7 U1	RHEL 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5  SLES 11.4, 12.2, 12.3  Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- The replication technology for recovery to Orange Recovery Engine is Veritas Resiliency Platform Data Mover.
- UVP VMTools software package needs to be installed on Windows virtual machines.
- For Windows workload virtual machines, PowerShell version 2.0 is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have `NetworkManager-config-routing-rules` package installed on them.
- SCSI device type for Elastic Volume Service (EVS) is not supported.
- ECS types that are based on Xen hypervisors are not supported.
- Multipathing is not supported inside virtual machines.

See [“Common limitations”](#) on page 5.

See [“Browser compatibility matrix”](#) on page 26.

See [“Compatibility matrix for virtual appliances”](#) on page 6.

# Compatibility matrix for disaster recovery of physical machines to Orange Recovery Engine

**Table 1-20** Compatibility matrix for disaster recovery of physical machines to Orange Recovery Engine

Supported physical machines
RHEL 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5
CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5
SLES 12.2, 12.3
Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- The replication technology for recovery to Orange Recovery Engine is Veritas Resiliency Platform Data Mover.
- UVP VMTools software package needs to be installed on Windows physical machines.
- For Windows workload physical machines, PowerShell version 2.0 is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have NetworkManager-config-routing-rules package installed on them.
- SCSI device type for Elastic Volume Service (EVS) is not supported.
- ECS types that are based on Xen hypervisors are not supported.
- Multipathing is not supported inside virtual machines.

# Compatibility matrix for disaster recovery of physical machines to VMware virtual machines

[Table 1-20](#) lists the compatibility matrix for disaster recovery of physical machines to VMware virtual machines.

**Compatibility matrix for disaster recovery of physical machines to VMware virtual machines****Table 1-21** Compatibility matrix for disaster recovery of physical machines to VMware virtual machines

Supported Physical machines	Supported virtual machines
RHEL 6.10, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4	vCenter Server 5.5U3e, 6.0, 6.0U1, 6.0U2, 6.0U3, 6.5, 6.5U1, 6.5U3, 6.7, 6.7 U1
CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4	ESXi 5.5U3, 6.0, 6.0U1, 6.0U2, 6.0 U3, 6.5, 6.5U1, 6.5U3, 6.7, 6.7 U1
SLES 12.3	
Windows Server 2008 R2, 2012, 2012 R2, 2016	

**Notes:**

- The replication technology for recovery of physical machines to VMware virtual machines is Veritas Resiliency Platform Data Mover.
- For Windows workload virtual machines, PowerShell version 2.0 is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have `NetworkManager-config-routing-rules` package installed on them.
- Starting and stopping of resiliency groups is not supported for recovery of physical machines to VMware virtual machines.
- RDM disk is supported in virtual and physical mode.
- Shared disks are not supported for recovery of physical machines to VMware virtual machines.
- Multiple subnets at source to single subnet at target is not supported.
- 1 GB free disk needs to be added to the physical server required for replication DRL disk.
- Multipathing is not supported inside virtual machines.



# Compatibility matrix for disaster recovery of physical machines to AWS

**Table 1-22** Compatibility matrix for disaster recovery of physical machines to AWS

Supported physical machines
RHEL 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5
CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5
SLES 12.2, 12.3
Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- The replication technology for recovery to AWS is Veritas Resiliency Platform Data Mover.
- For Windows workload physical machines, PowerShell version 3.0 is supported with .Net version 4.5.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have NetworkManager-config-routing-rules package installed on them.
- Using China region for recovery to AWS is supported, but not qualified.
- Multipathing is not supported inside virtual machines.
- AWS paravirtual drivers (xen) need to be installed on SLES 11.4 machines.

# Compatibility matrix for disaster recovery of physical machines to vCloud Director

**Table 1-23** Compatibility matrix for disaster recovery of physical machines to vCloud Director

Supported physical machines
RHEL 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5
CentOS 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5
SLES 12.2, 12.3
Windows Server 2008 R2, 2012, 2012 R2, 2016

**Notes:**

- The replication technology for recovery to vCloud Director is Veritas Resiliency Platform Data Mover.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have NetworkManager-config-routing-rules package installed on them.
- For Windows workload virtual machines, PowerShell version 2.0 is supported with .Net version 3.5 and PowerShell version 3.0 is supported with .Net version 4.5.
- RHEL hosts (version 7.0 and above) having multiple NICs need to have NetworkManager-config-routing-rules package installed on them.
- Rehearse and cleanup rehearsal operations are not supported for recovery from Physical to vCloud Director.
- Multipathing is not supported inside virtual machines.

## Browser compatibility matrix

[Table 1-24](#) lists the browser compatibility matrix.

**Table 1-24** Browser compatibility matrix

Browser	Versions	Comments
Microsoft Internet Explorer	11, or later	<b>JavaScript:</b> Enabled <b>Cookies:</b> Enabled
Mozilla Firefox	33.x, or later	<b>JavaScript:</b> Enabled <b>Cookies:</b> Enabled
Google Chrome	38.x, or later	<b>JavaScript:</b> Enabled <b>Cookies:</b> Enabled

**Note:**

When Popup blockers are turned on, make sure that the filter level set to is medium or lower.

# **Veritas Resiliency Platform components version compatibility**

Ensure that Resiliency Manager and Infrastructure Management Server (IMS) are always at same version.

Replication should work fine if the Veritas Data mover is at version lower than Resiliency Manager and IMS. In this case operations from resiliency manager can fail.