

Zerto

Interoperability Matrix for All Zerto Software Versions

Rev05

Aug 2020

ZVR-OPM-8.0-ALL

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ZVR-OPM-8.0-ALL

Interoperability Matrix for All Zerto Versions

This document lists the platforms, their management tools, hosts, and other features supported by the following versions of Zerto.

- For support of a specific release, see the [Product Version Lifecycle Matrix](#) for the support level of each Zerto release. The information in this document covers the features and versions of 3rd party platforms that were tested by Zerto.
- Zerto will support new platforms, management tools and hosts listed in this document within 90 days of the general availability of a new platform release for the Zerto Virtual Replication releases that are in the General Support Phase. See the [Product Version Lifecycle Matrix](#) for more details.
- Zerto assumes that minor update releases are supported (for example, vCenter Server 5.5U1a, 5.5U1b or 5.5U1c), if the major update is supported (for example, vCenter Server 5.5U1).
- Operating systems that reach their end-of-life as defined by their vendor will no longer be supported by Zerto.

Zerto - Supported Matrix		See...
	Zerto with VMware vSphere	VMware vSphere on page 6
	Zerto with VMware-as-a-Service provider	VMware-as-a-Service Provider on page 20
	Zerto with VMware Cloud Director	VMware Cloud Director on page 21
	Zerto with Microsoft SCVMM	Microsoft Hyper-V on page 26

Zerto - Supported Matrix		See...
	Zerto with Microsoft Azure	Microsoft Azure on page 34
	Zerto with Amazon Web Services (AWS)	Amazon Web Services (AWS) on page 71 See also Zerto supported AWS Instance Families and Types on page 75
	Zerto Virtual Manager - Supported Browsers	Zerto Virtual Manager - Supported Browsers on page 82
	Zerto Virtual Manager Features Use this table to identify which Zerto feature is supported in which Zerto version.	Zerto Virtual Manager Features - Support Matrix on page 83
	External Microsoft SQL Servers Use this table to identify which Microsoft SQL Servers are supported as external SQL Server databases.	External SQL Server Databases - Support Matrix on page 86

Some of the platforms and features in the following tables might not temporarily be supported due to reported issues that are still unresolved.


For a list of all **known issues**, see the relevant [Release Notes](#).


Note: For **prerequisites** and **requirements** for per environment, see:


- [Prerequisites and Requirements for VMware vSphere Environments](#)
- [Prerequisites and Requirements for Microsoft Hyper-V Environments](#)


- [Prerequisites and Requirements for Microsoft Azure Environments](#)
- [Prerequisites and Requirements for Amazon Web Services \(AWS\) Environments](#)
- [Prerequisites and Requirements for Managed Service Providers \(MSPs\)](#)


VMware vSphere


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
ZVM Operating Systems												
Windows Server 2008 R2 SP1 with KB3033929 and KB2864202	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
Windows Server 2012 base	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2012 R2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2016	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2019	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FIPS-mode enabled ZVM host*	x	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓
* Zerto is not FIPS compliant												


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Virtual Machine Hardware												
Virtual machine hardware versions 7-9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual machine hardware versions 10-11, 13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual machine hardware versions 14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual machine hardware versions 15 <small>*Supported from Zerto 6.5U4P1 *Supported from Zerto 7.0U2P2</small>	x	✓	✓*	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual machine hardware versions 17	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
Management Tools - VMware vCenter Server												
vCenter Server 4.1 and earlier	x	x	x	x	x	x	x	x	x	x	x	x


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
vCenter Server 5.0	x	x	x	x	x	x	x	x	x	x	x	x
vCenter Server 5.1	✓	✓	✓	✓	x	x	x	x	x	x	x	x
vCenter Server 5.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
vCenter Server 6.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCenter Server 6.5 <small>For Zerto versions v5.5P1 and above, natively supported</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCenter Server 6.5 U1, 6.5 U2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCenter Server 6.5 U3	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCenter Server 6.7, 6.7 U1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCenter Server 6.7 U2	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
vCenter Server 6.7 U3 <small>*Supported from Zerto 6.5U4P1 *Supported from Zerto 7.0U2P2</small>	x	x	✓*	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCenter Server 7.0	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
Hosts												
ESX/ESXi 4.1 and earlier	x	x	x	x	x	x	x	x	x	x	x	x
ESXi 5.0	x	x	x	x	x	x	x	x	x	x	x	x
ESXi 5.1	✓	✓	✓	✓	x	x	x	x	x	x	x	x
ESXi 5.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
ESXi 6.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESXi 6.5 <small>For Zerto Virtual Replication versions v5.5P1 and above, natively supported.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESXi 6.5 U1, 6.5 U2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
ESXi 6.5 U3	x	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESXi 6.7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESXi 6.7 U1 <small>¹ Supported when the ESXi host is upgraded. ² Integrated from Zerto v6.0U4P1</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESXi 6.7 U2	x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESXi 6.7 U3 <small>*Supported from Zerto 6.5U4P1 *Supported from Zerto 7.0U2P2</small>	x	x	✓*	✓	✓	✓	✓	✓	✓	✓	✓	✓
ESXi 7.0	x	x	x	x	x	x	x	✓	✓	✓	✓	✓
vSphere Clients												
vSphere Client console 4.0 and higher	x	x	x	x	x	x	x	x	x	x	x	x


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
vSphere Client console 4.1 - 6.0U3 (.NET Client)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vSphere Web (FLEX) Client 5.0-5.0U3 To enable the Flex Web Client, you need to perform the manual procedure described in Zerto Virtual Replication Installation Guide for VMware vSphere > Accessing the Zerto User Interface > Using the Zerto User Interface Within vSphere > Using the vSphere Web Client.	x	x	x	x	x	x	x	x	x	x	x	x
vSphere Web (FLEX) Client 5.1 To enable the Flex Web Client, you need to perform the manual procedure described in Zerto Virtual Replication Installation Guide for VMware vSphere > Accessing the Zerto User Interface > Using the Zerto User Interface Within vSphere > Using the vSphere Web Client.	✓	✓	✓	✓	x	x	x	x	x	x	x	x


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
vSphere Web (FLEX) Client 5.5 and 6.0 To enable the Flex Web Client, you need to perform the manual procedure described in Zerto Virtual Replication Installation Guide for VMware vSphere > Accessing the Zerto User Interface > Using the Zerto User Interface Within vSphere > Using the vSphere Web Client.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vSphere Web (FLEX) Client 6.7	x	x	x	x	x	x	x	x	x	x	x	x
vSphere HTML5 Web Client	x	x	x	x	x	x	x	x	x	x	x	x
VMware Security												
VMware vShield Edge/vCloud Networking and Security (all versions)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
ZVR re-IP - Supported Operating Systems on vSphere Hosts												
Windows Server 2003, 2008, 2012, 2016 (all versions), 2019	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Red Hat Enterprise Linux versions 5-7x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SUSE Linux Enterprise versions 10-11.x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ubuntu versions 14.10, 15.04	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CentOS versions 5	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
CentOS versions 6-7.x	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oracle Linux versions 6.x - Red Hat Compatible Kernel (RHCK)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Oracle Linux versions 6.x - Unbreakable Enterprise Kernel (UEK)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oracle Linux versions 7.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vSphere Features												
16Gb FC HBAs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Datastore clusters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Distributed Switch QoS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Encrypted vMotion	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Fault Tolerance	x	x	x	x	x	x	x	x	x	x	x	x
High availability (HA) with/without admission control (recovery site)* <small>*Test failover, failover, and move will fail if admission control does not enable starting recovered VMs.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Host Affinity Rules and CPU Pinning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Host Secure Boot <small>*Supported when installed without VIB.</small>	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*	✓*
Linked Clones <small>Collapsed upon recovery, before reverse protection.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lockdown modes of ESXi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Opaque network <small>(incl. NSX-T)</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Protect VMs using thin provisioning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Protected VM DRS and sDRS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stateless ESX over FCoE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Storage IO control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Storage Profiles <small>Not involved in replication.</small>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Storage vMotion of protected VMs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SDRS for Recovery VRAs	x	x	x	x	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Storage vMotion of VRA recovery disks Cannot perform any operations involving detaching or attaching volumes to the VRA that is undergoing a storage vMotion. This includes all Recovery operations, Creating VPGs, protecting new VMs, and changing Recovery VRA.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vApp support Individual VMs from the vApp can still be protected.	x	x	x	x	x	x	x	x	x	x	x	x
vCenter Roles and permissions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCenter High Availability 6.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCenter High Availability 6.7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VM Encryption	x	x	x	x	x	x	x	x	x	x	x	x

	Zerto Version											
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
vMotion of protected VMs (with/without shared disks for VMs)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VMware Host maintenance mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VM Secure Boot	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VSAN 5.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VSAN 6.2, 6.5, 6.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VSAN 6.7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VSAN 6.7U1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VSAN 6.7U2	x	x	x	✓	x	✓	✓	✓	✓	✓	✓	✓
VSAN 6.7U3	x	x	x	✓	x	✓	✓	✓	✓	✓	✓	✓
VSAN 7.0	x	x	x	x	x	x	x	x	✓	x	✓	✓

Zerto Version												
VMware vSphere with Zerto Virtual Replication 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
vSphere Flash Read Cache The recovery VM is created without virtual cache enabled.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vVols *Supported on vSphere 6.5 and above	x	x	x	x	x	x	x	x	x	✓*	✓*	✓*
Storage Specifics												
Virtual NVMe	x	x	x	x	x	x	x	x	x	x	x	x

VMware-as-a-Service Provider

Zerto Version												
VMware-as-a-Service Provider	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
NEW												
Google Cloud VMware Engine (GCVE) <small>**To register for Controlled Release, click here.</small>	x	x	x	x	x	x	x	x	x	√*	√*	√*
AVS 2.0	x	x	x	x	x	x	x	x	x	x	x	x
Oracle Cloud VMware Solution <small>**To register for Controlled Release, click here.</small>	x	x	x	x	x	x	x	x	x	x	x	x

Note:


Early Access: The Zerto IT Resilience platform may be used in the VaaS provider environment by requesting early access from Zerto for use in non-production deployments.


****Controlled Release:** The Zerto IT Resilience platform has been tested by Zerto in the VaaS provider environment and this configuration is documented on MyZerto in Zerto’s technical documentation. Zerto customer access is controlled to allow Zerto and the VaaS provider to manually configure the Zerto IT Resilience platform for optimum performance. Customer must request controlled access from Zerto.

VMware Cloud Director

Note: Protected machines are protected as a VCD vApp in the recovery site VCD. To review which settings are maintained, see *Zerto Virtual Manager Administration Guide for VMware vSphere Environments*, in the section **vApp Settings Maintained when Replicating from a Protected Site VCD to a Recovery Site VCD**.


Note: Re-IP is not supported in Zerto versions 7.5Ux and 8.0Ux, when going from Public Cloud to VCD.

Zerto Version												
VMware Cloud Director with Zerto	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
												
Management Tools - VMware Cloud Director using AMQP (Zerto is tested with Rabbit MQ with Erlang/OTP)												
vCloud Director 1.0-1.5.2	x	x	x	x	x	x	x	x	x	x	x	x
vCloud Director 5.1-5.6.5	x	x	x	x	x	x	x	x	x	x	x	x
vCloud Director 8.0	x	x	x	x	x	x	x	x	x	x	x	x
vCloud Director 8.0.1, 8.0.2	x	x	x	x	x	x	x	x	x	x	x	x


Zerto Version												
VMware Cloud Director with Zerto 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
vCloud Director 8.10.x, 8.20.x	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
vCloud Director 9.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
vCloud Director 9.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VMware Cloud Director 9.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VMware Cloud Director 9.7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VMware Cloud Director 10	✗	✗	✗	✗	✗	✗	✓	✗	✗	✓	✓	✓
VMware Cloud Director 10.0.0.1	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
VMware Cloud Director 10.1	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓
VMware Cloud Director 10.0.0.2	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓


Zerto Version												
VMware Cloud Director with Zerto	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
												
VMware Cloud Director (VCD) Features												
Extended vCloud Networking and Security (vCNS) Services: Five-tuple firewall and IPSec VPN services	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Third-party distributed switch support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vApp Networks Zerto does not replicate the settings of the vApp network such as NAT, Firewall, or DHCP configuration. To replicate all vApp network settings, a post-operation script must be implemented.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
vCD Public Addresses	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Elastic Virtual Datacenter	x	x	x	x	x	x	x	x	x	x	x	x
Extended vCloud Networking and Security (vCNS) Services*: Five-tuple firewall and IPSec VPN services *With vCD 1.5, settings not replicated with the virtual machines.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
VMware Cloud Director with Zerto 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Fast provisioning using linked clones* <small>*Collapsed upon recovery, before reverse protection.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Metadata (Custom guest Properties) GUI* <small>*Metadata is replicated. Metadata on every vCD entity is supported as it does not interfere with replication.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Org vDC Networks <small>Treat all Org vDC networks as if they were part of the entire Organization.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Snapshots of protected VMs <small>Only vCD VM and vApp metadata.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Single Sign-On <small>vCenter Server must be connected to Active Directory.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Storage Profiles	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Storage Profiles with storage clusters as replication targets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TLS 1.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
VMware Cloud Director with Zerto 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
TLS 1.1, 1.2 Notes: AMQP installer is supported from vCD 9.0 AMQP over SSL is unsupported for all Zerto versions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Microsoft Hyper-V


Zerto Version												
MICROSOFT HYPER-V WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
ZVM Operating Systems												
Windows Server 2008 R2 SP1 with KB3033929 and KB2864202	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
Windows Server 2012 base	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2012 R2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
MICROSOFT HYPER-V WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Windows Server 2016	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2019	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual Machine Hardware												
Generation 1 & 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Management Tools - Microsoft SCVMM												
2012 R2 and Server Core: Update Rollup 1-5	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
2012 R2 and Server Core: Update Rollup 6-11	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x


Zerto Version												
MICROSOFT HYPER-V WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
2012 R2 and Server Core: Rollup 12-14	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
2012 R2 and Server Core: RTM	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
2016 and Server Core: RTM Rollups 3 -5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2016 and Server Core: RTM Rollup 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2016 and Server Core: RTM Rollup 7	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓
2016 and Server Core: RTM Rollup 8	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓

Zerto Version												
MICROSOFT HYPER-V WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
2019 and Server Core: RTM Rollup 1	x	x	x	x	x	x	x	x	x	✓	✓	✓
Hosts												
Windows 2012 R2 and Server Core	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	x	x
Windows 2016 Server <small>If Secure Boot is enabled, Windows 2016 Server is not supported.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Hyper-V Server 2019 <small>If Secure Boot is enabled, Microsoft Hyper-V Server 2019 is not supported.</small>	x	x	x	x	x	x	x	x	x	✓	✓	✓

Zerto Version												
MICROSOFT HYPER-V WITH ZERTO VIRTUAL REPLICATION	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
ZVR re-IP - Supported Operating Systems on Hyper-V Hosts												
Windows Server 2008, 2012, 2016 (all versions)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Red Hat Enterprise Linux version 7.3* <small>*See 5.0U1 Release Notes for additional information.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CentOS version 7* <small>*See 5.0U1 Release Notes for additional information.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oracle Linux version 7* <small>*See 5.0U1 Release Notes for additional information.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Version												
MICROSOFT HYPER-V WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Oracle Linux version 7.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hyper-V Features												
Dynamic disks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
High availability (HA)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clusters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Failover Clustering and Fault Tolerance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
MICROSOFT HYPER-V WITH ZERTO VIRTUAL REPLICATION	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
 <p>Pass-through disks (both with a Hyper-V host or virtual machine)*</p> <p><small>*A Hyper-V host with even one pass-through disk is ignored by Zerto.</small></p>	x	x	x	x	x	x	x	x	x	x	x	x
Performance and resource optimization (PRO)	x	x	x	x	x	x	x	x	x	x	x	x
Dynamic optimization	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multipath I/O	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anti-affinity rules	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Version												
MICROSOFT HYPER-V WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Live migration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Quick storage migration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Host maintenance mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Managing virtual machines with "run-as-account"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hyper-V Replica	x	x	x	x	x	x	x	x	x	x	x	x
Cluster Aware Updating (CAU)	x	x	x	x	x	x	x	x	x	x	x	x
Storage Specifics												
Virtual NVMe	x	x	x	x	x	x	x	x	x	x	x	x


Microsoft Azure

Note: See [Zerto supported Azure VM Series and Sizes on page 37](#).

Note: Zerto Virtual Replication Installation Package for Azure is not supported in v7.5U1.

Zerto Version												
MICROSOFT AZURE WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Operating Systems												
Windows Server 2012 R2, Windows Server 2016, Windows Server 2019	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Virtual Machine Hardware												
UEFI Firmware <small>*Contact Support</small>	x	x	x	x	x	N/A	✓*	✓*	✓*	✓	✓	✓

Zerto Version												
MICROSOFT AZURE WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
BIOS	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Azure Storage Accounts												
General-purpose v1 (GPv1)	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
ZVR re-IP - Supported Windows Operating Systems on Azure												
Windows 2003	x	x	x	x	x	N/A	x	x	x	x	x	x
Windows 2008, 2012 (all versions)	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Windows 7, 8, 8.1	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Windows 2016	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
ZVR re-IP - Supported Linux Operating Systems on Azure												
Failing over Linux VMs with static IP is not supported.												
Linux machines with Paravirtual Controller are not supported on Azure.												
Red Hat Enterprise Linux 6.7, 6.9, 7.4	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓

Zerto Version												
MICROSOFT AZURE WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
CentOS 6.3, 7.0	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Debian 6.x	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Oracle 6.x	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
SUSE version 12.x	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
SUSE version 15	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Ubuntu 14.04, 16.04	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Microsoft Azure Features - Supported Azure Regions												
Azure Government regions	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
China	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
Germany (all)	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓
All other regions	✓	✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓	✓

Zerto supported Azure VM Series and Sizes

The following tables list the Zerto supported Azure Virtual Machine Series and Sizes.

When a Virtual Machine Size supports **Managed Premium SSD**, this is indicated in the table.

If Managed Premium SSD **is** supported, then the following are also supported:

- Managed Standard SSD
- Managed Standard HDD

If Managed Premium SSD is **not** supported, then only the following are supported:

- Managed Standard SSD
- Managed Standard HDD

See the following Virtual Machine Series:

[A-series on page 39](#)

[Av2-series on page 40](#)

[A-series \(compute intensive\) on page 40](#)

[B-series on page 41](#)

[D-series on page 41](#)

[Dv2-series on page 42](#)

[Dv3-series on page 43](#)

[Dsv3-series on page 44](#)

[DS-series on page 45](#)

[DSv2-series on page 46](#)

[Ev3-series on page 48](#)

[Esv3-series on page 49](#)

[F-series on page 49](#)

[Fs-series on page 50](#)

[Fsv2-series on page 50](#)

[G-series on page 51](#)

[GS-series on page 52](#)

[H-series on page 52](#)

[Ls-series on page 53](#)

[M-series on page 53](#)

[NC-series on page 54](#)

[NCv2-series on page 54](#)

[ND-series on page 55](#)

[NV-series on page 55](#)

[General-series on page 55](#)

Virtual Machine Series	Virtual Machine Sizes
A-series	
	Basic_A0
	Basic_A1
	Basic_A2
	Basic_A3
	Basic_A4
	Standard_A0
	Standard_A1
	Standard_A2
	Standard_A3
	Standard_A4
	Standard_A5
	Standard_A6
	Standard_A7

Virtual Machine Series	Virtual Machine Sizes
Av2-series	
	Standard_A1_v2
	Standard_A2_v2
	Standard_A2m_v2
	Standard_A4_v2
	Standard_A4m_v2
	Standard_A8_v2
	Standard_A8m_v2
A-series (compute intensive)	
	Standard_A8
	Standard_A9
	Standard_A10
	Standard_A11

Virtual Machine Series	Virtual Machine Sizes
B-series	
	Standard_B1ms
	Standard_B1s
	Standard_B2ms
	Standard_B2s
	Standard_B4ms
	Standard_B8ms
D-series	
	Standard_D1
	Standard_D2
	Standard_D3
	Standard_D4
	Standard_D11
	Standard_D12

Virtual Machine Series	Virtual Machine Sizes
	Standard_D13
	Standard_D14
Dv2-series	
	Standard_D1_v2
	Standard_D2_v2
	Standard_D2_v2_Promo
	Standard_D3_v2
	Standard_D3_v2_Promo
	Standard_D4_v2
	Standard_D4_v2_Promo
	Standard_D5_v2
	Standard_D5_v2_Promo
	Standard_D11_v2
	Standard_D11_v2_Promo

Virtual Machine Series	Virtual Machine Sizes
	Standard_D12_v2
	Standard_D12_v2_Promo
	Standard_D13_v2
	Standard_D13_v2_Promo
	Standard_D14_v2
	Standard_D14_v2_Promo
	Standard_D15_v2
Dv3-series	
	Standard_D2_v3
	Standard_D4_v3
	Standard_D8_v3
	Standard_D16_v3
	Standard_D32_v3
	Standard_D64_v3

Virtual Machine Series	Virtual Machine Sizes
Dsv3-series	
Managed Premium SSD	Standard_D2s_v3
	Standard_D4s_v3
	Standard_D8s_v3
	Standard_D16s_v3
	Standard_D32s_v3
	Standard_D64s_v3

Virtual Machine Series	Virtual Machine Sizes
DS-series	
Managed Premium SSD	Standard_DS1
	Standard_DS2
	Standard_DS3
	Standard_DS4
	Standard_DS11
	Standard_DS12
	Standard_DS13
	Standard_DS14

Virtual Machine Series	Virtual Machine Sizes
DSv2-series	
Managed Premium SSD	Standard_DS1_v2
	Standard_DS2_v2
	Standard_DS2_v2_Promo
	Standard_DS3_v2
	Standard_DS3_v2_Promo
	Standard_DS4_v2
	Standard_DS4_v2_Promo

Virtual Machine Series	Virtual Machine Sizes
Managed Premium SSD	Standard_DS5_v2
	Standard_DS5_v2_Promo
	Standard_DS11_v2
	Standard_DS11_v2_Promo
	Standard_DS12_v2
	Standard_DS12_v2_Promo
	Standard_DS13_v2

Virtual Machine Series	Virtual Machine Sizes
Managed Premium SSD	Standard_DS13-2_v2
	Standard_DS13-4_v2
	Standard_DS13_v2_Promo
	Standard_DS14_v2
	Standard_DS14_v2_Promo
	Standard_DS14-4_v2
	Standard_DS14-8_v2
	Standard_DS15_v2
Ev3-series	
	Standard_E2_v3
	Standard_E4_v3
	Standard_E8_v3
	Standard_E16_v3
	Standard_E32_v3

Virtual Machine Series	Virtual Machine Sizes
	Standard_E64_v3
Esv3-series	
Managed Premium SSD	Standard_E2s_v3
	Standard_E4s_v3
	Standard_E8s_v3
	Standard_E16s_v3
	Standard_E32-8s_v3
	Standard_E32-16s_v3
	Standard_E32s_v3
	Standard_E64-16s_v3
	Standard_E64-32s_v3
	Standard_E64s_v3
F-series	
	Standard_F1

Virtual Machine Series	Virtual Machine Sizes
	Standard_F2
	Standard_F4
	Standard_F8
	Standard_F16
Fs-series	
Managed Premium SSD	Standard_F1s
	Standard_F2s
	Standard_F4s
	Standard_F8s
	Standard_F16s
Fsv2-series	
	Standard_F2s_v2
	Standard_F4s_v2
	Standard_F8s_v2

Virtual Machine Series	Virtual Machine Sizes
	Standard_F16s_v2
	Standard_F32s_v2
	Standard_F64s_v2
	Standard_F72s_v2
G-series	
	Standard_G1
	Standard_G2
	Standard_G3
	Standard_G4
	Standard_G5

Virtual Machine Series	Virtual Machine Sizes
GS-series	
Managed Premium SSD	Standard_GS1
	Standard_GS2
	Standard_GS3
	Standard_GS4
	Standard_GS4-4
	Standard_GS4-8
	Standard_GS5
	Standard_GS5-8
	Standard_GS5-16
H-series	
	Standard_H8
	Standard_H8m
	Standard_H16

Virtual Machine Series	Virtual Machine Sizes
	Standard_H16m
	Standard_H16mr
	Standard_H16r
Ls-series	
Managed Premium SSD	Standard_L4s
	Standard_L8s
	Standard_L16s
	Standard_L32s
M-series	
	Standard_M64-16ms
	Standard_M64-32ms
	Standard_M64ms
	Standard_M64s
	Standard_M128-32ms

Virtual Machine Series	Virtual Machine Sizes
	Standard_M128-64ms
	Standard_M128ms
	Standard_M128s
NC-series	
	Standard_NC6
	Standard_NC12
	Standard_NC24
	Standard_NC24r
NCv2-series	
	Standard_NC6s_v2
	Standard_NC12s_v2
	Standard_NC24rs_v2
	Standard_NC24s_v2

Virtual Machine Series	Virtual Machine Sizes
ND-series	
	Standard_ND6s
	Standard_ND12s
	Standard_ND24rs
	Standard_ND24s
NV-series	
	Standard_NV6
	Standard_NV12
	Standard_NV24

Virtual Machine Series	Virtual Machine Sizes
General-series	
	Standard_B1ls

Virtual Machine Series	Virtual Machine Sizes
	Standard_B12ms
	Standard_B16ms
	Standard_B20ms
	Standard_D2_v4
	Standard_D2a_v4
	Standard_D2as_v4
	Standard_D2d_v4
	Standard_D2ds_v4
	Standard_D2s_v4
	Standard_D4_v4
	Standard_D4a_v4
	Standard_D4as_v4
	Standard_D4d_v4
	Standard_D4ds_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_D4s_v4
	Standard_D8_v4
	Standard_D8a_v4
	Standard_D8as_v4
	Standard_D8d_v4
	Standard_D8ds_v4
	Standard_D8s_v4
	Standard_D16_v4
	Standard_D16a_v4
	Standard_D16as_v4
	Standard_D16d_v4
	Standard_D16ds_v4
	Standard_D16s_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_D32_v4
	Standard_D32a_v4
	Standard_D32as_v4
	Standard_D32d_v4
	Standard_D32ds_v4
	Standard_D32s_v4
	Standard_D48_v3
	Standard_D48_v4
	Standard_D48a_v4
	Standard_D48as_v4
	Standard_D48d_v4
	Standard_D48ds_v4
	Standard_D48s_v3
	Standard_D48s_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_D64_v4
	Standard_D64a_v4
	Standard_D64as_v4
	Standard_D64d_v4
	Standard_D64ds_v4
	Standard_D64s_v4
	Standard_D96a_v4
	Standard_D96as_v4
	Standard_DC1s_v2
	Standard_DC2s
	Standard_DC2s_v2
	Standard_DC4s
	Standard_DC4s_v2
	Standard_DC8_v2

Virtual Machine Series	Virtual Machine Sizes
	Standard_DS11-1_v2
	Standard_DS12-1_v2
	Standard_DS12-2_v2
	Standard_E2_v4
	Standard_E2a_v4
	Standard_E2as_v4
	Standard_E2d_v4
	Standard_E2ds_v4
	Standard_E2s_v4
	Standard_E4_v4
	Standard_E4-2ds_v4
	Standard_E4-2s_v3
	Standard_E4-2s_v4
	Standard_E4a_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_E4as_v4
	Standard_E4d_v4
	Standard_E4ds_v4
	Standard_E4s_v4
	Standard_E8_v4
	Standard_E8-2ds_v4
	Standard_E8-2s_v3
	Standard_E8-2s_v4
	Standard_E8-4ds_v4
	Standard_E8-4s_v3
	Standard_E8-4s_v4
	Standard_E8a_v4
	Standard_E8as_v4
	Standard_E8d_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_E8ds_v4
	Standard_E8s_v4
	Standard_E16_v4
	Standard_E16-4ds_v4
	Standard_E16-4s_v3
	Standard_E16-4s_v4
	Standard_E16-8ds_v4
	Standard_E16-8s_v3
	Standard_E16-8s_v4
	Standard_E16a_v4
	Standard_E16as_v4
	Standard_E16d_v4
	Standard_E16ds_v4
	Standard_E16s_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_E20_v3
	Standard_E20_v4
	Standard_E20a_v4
	Standard_E20as_v4
	Standard_E20d_v4
	Standard_E20ds_v4
	Standard_E20s_v3
	Standard_E32_v4
	Standard_E32-8ds_v4
	Standard_E32-8s_v4
	Standard_E32-16ds_v4
	Standard_E32-16s_v4
	Standard_E32a_v4
	Standard_E32as_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_E32d_v4
	Standard_E32ds_v4
	Standard_E32s_v4
	Standard_E48_v3
	Standard_E48_v4
	Standard_E48a_v4
	Standard_E48as_v4
	Standard_E48d_v4
	Standard_E48ds_v4
	Standard_E48s_v3
	Standard_E48s_v4
	Standard_E64_v4
	Standard_E64-16ds_v4
	Standard_E64-16s_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_E64-32ds_v4
	Standard_E64-32s_v4
	Standard_E64a_v4
	Standard_E64as_v4
	Standard_E64d_v4
	Standard_E64ds_v4
	Standard_E64i_v3
	Standard_E64is_v3
	Standard_E64s_v4
	Standard_E96a_v4
	Standard_E96as_v4
	Standard_F48s_v2
	Standard_H8_Promo
	Standard_H8m_Promo

Virtual Machine Series	Virtual Machine Sizes
	Standard_H16_Promo
	Standard_H16m_Promo
	Standard_H16mr_Promo
	Standard_H16r_Promo
	Standard_HB60rs
	Standard_HB120rs_v2
	Standard_HC44rs
	Standard_L8s_v2
	Standard_L16s_v2
	Standard_L32s_v2
	Standard_L48s_v2
	Standard_L64s_v2
	Standard_L80s_v2
	Standard_M8-2ms

Virtual Machine Series	Virtual Machine Sizes
	Standard_M8-4ms
	Standard_M8ms
	Standard_M16-4ms
	Standard_M16-8ms
	Standard_M16ms
	Standard_M32-8ms
	Standard_M32-16ms
	Standard_M32ls
	Standard_M32ms
	Standard_M32ts
	Standard_M64
	Standard_M64ls
	Standard_M64m
	Standard_M128

Virtual Machine Series	Virtual Machine Sizes
	Standard_M128m
	Standard_M208ms_v2
	Standard_M208s_v2
	Standard_M416-208ms_v2
	Standard_M416-208s_v2
	Standard_M416ms_v2
	Standard_M416s_v2
	Standard_NC6_Promo
	Standard_NC6s_v3
	Standard_NC12_Promo
	Standard_NC12s_v3
	Standard_NC24_Promo
	Standard_NC24r_Promo
	Standard_NC24rs_v3

Virtual Machine Series	Virtual Machine Sizes
	Standard_NC24s_v3
	Standard_ND40rs_v2
	Standard_NP10s
	Standard NP20s
	Standard_NP40s
	Standard_NV4as_v4
	Standard_NV6_Promo
	Standard_NV6s_v2
	Standard_NV8as_v4
	Standard_NV12_Promo
	Standard_NV12s_v2
	Standard_NV12s_v3
	Standard_NV16as_v4

Virtual Machine Series	Virtual Machine Sizes
	Standard_NV24_Promo
	Standard_NV24s_v2
	Standard_NV24s_v3
	Standard_NV32as_v4
	Standard_NV48s_v3
	Standard_PB6s

Amazon Web Services (AWS)


Note: Site pairing and replication between AWS sites (AWS to AWS) is currently **not** supported.


Note: See [Zerto supported AWS Instance Families and Types on page 75](#).


Note:


Automated OS Configuration for AWS automatically loads the necessary OS drivers (Windows & Linux) when performing a failover.

ZertoTools is still supported and required in certain cases for failover and failback to VMware sites. For more information, see [Administration for vSphere Environments](#), in the section **Replication From a Protected Site vCenter Server to a Recovery Site AWS..**

Zerto Version												
AWS WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Operating Systems NOTE: Automated OS Configuration for AWS automatically loads the necessary OS drivers (Windows & Linux) when performing a failover.												

Zerto Version												
AWS WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
ZertoTools is still supported and required in certain cases for failover and failback to VMware sites. For more information, see Administration for vSphere Environments , in the section Replication From a Protected Site vCenter Server to a Recovery Site AWS..												
Windows Server 2008 R2 SP1 with KB3033929 and KB2864202	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2012 base	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2012 R2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2016	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Windows Server 2019* <small>*Windows 2019 is supported only when using Zerto Import for All Volumes. This does not apply to Zerto 8.0.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Windows 7, 8.1, 10	x	x	x	x	x	x	x	x	x	x	x	x
AWS Regions Supported and Tested												
Asia Pacific - North East (Seoul)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Version												
AWS WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Asia Pacific - North East (Tokyo)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Asia Pacific - South East (Sydney)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Asia Pacific - South East (Singapore)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Asia Pacific - East (Hong Kong)	x	x	x	x	x	x	x	x	x	✓	✓	✓
AWS GovCloud (US) (Failover to AWS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AWS GovCloud (US) (Failover from AWS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Canada (Central)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
China (Beijing)* <small>Requires Amazon AWS account with a valid ICP license. For further information see AWS documentation.</small>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EU Central (Frankfurt)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EU North (Stockholm)	x	x	x	x	x	x	x	x	x	✓	✓	✓

Zerto Version												
AWS WITH ZERTO VIRTUAL REPLICATION 	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
EU West (Ireland)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EU West (Paris)	x	x	x	x	x	x	x	x	x	✓	✓	✓
EU West (London)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Asia Pacific - South (Mumbai)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Middle East (Bahrain)	x	x	x	x	x	x	x	x	x	✓	✓	✓
Ohio	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
South America - South America East (Sao Paulo)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
US East (N.Virginia)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
US West (Oregon)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
US West (N. California)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* For using China region in Zerto 7.0 and above, contact Support.

Zerto supported AWS Instance Families and Types

The following table lists the Zerto supported AWS Instance Families and Types.

Instance Family	Instance Type
Compute Optimised	c5d.large
Compute Optimised	c5d.xlarge
Compute Optimised	c5d.18xlarge
Compute Optimised	c5d.2xlarge
Compute Optimised	c5d.4xlarge
Compute Optimised	c5d.9xlarge
Compute Optimised	c5.large
Compute Optimised	c5.xlarge
Compute Optimised	c5.18xlarge
Compute Optimised	c5.2xlarge
Compute Optimised	c5.4xlarge

Instance Family	Instance Type
Compute Optimised	c5.9xlarge
General Purpose	m5d.large
General Purpose	m5d.xlarge
General Purpose	m5d.12xlarge
General Purpose	m5d.2xlarge
General Purpose	m5d.24xlarge
General Purpose	m5d.4xlarge
General Purpose	m5.large
General Purpose	m5.xlarge
General Purpose	m5.12xlarge
General Purpose	m5.16xlarge
General Purpose	m5.2xlarge
General Purpose	m5.24xlarge
General Purpose	m5.4xlarge

Instance Family	Instance Type
General Purpose	m5.8xlarge
General Purpose	t3.large
General Purpose	t3.medium
General Purpose	t3.micro
General Purpose	t3.nano
General Purpose	t3.small
General Purpose	t3.xlarge
General Purpose	t3.2xlarge
Memory Optimised	r5d.16xlarge
Memory Optimised	r5d.2xlarge
Memory Optimised	r5d.24xlarge
Memory Optimised	r5d.4xlarge
Memory Optimised	r5d.8xlarge
Memory Optimised	r5.large

Instance Family	Instance Type
Memory Optimised	r5.xlarge
Memory Optimised	r5d.large
Memory Optimised	r5d.xlarge
Memory Optimised	r5d.12xlarge
Memory Optimised	r5.12xlarge
Memory Optimised	r5.16xlarge
Memory Optimised	r5.2xlarge
Memory Optimised	r5.24xlarge
Memory Optimised	r5.4xlarge
Memory Optimised	r5.8xlarge

vSphere to AWS - Supported Linux Operating Systems Per Import Method

This section applies to Zerto versions 7.5 and lower. For supported Linux Operating Systems in Zerto version 8.0, see [vSphere to AWS - Supported Linux Operating Systems Per Import Method on page 79](#).

Note:

Zerto Tools for Linux is required for supporting **Zerto Import for All Volumes** import method for Linux machines for failover and failback to VMware sites. For more information about ZertoTools, see [Zerto Administration Guide for vSphere Environments](#), in the section **ZertoTools for Linux**.

RHEL 6.7	RHEL 6.9	RHEL 7.0	RHEL 7.1	RHEL 7.2	RHEL 7.3	RHEL 7.4	RHEL 7.5	Centos 6.7	Centos 6.9	Centos 7	Ubuntu 14.04	Ubuntu 16.04	SUSE 11 SP3
Zerto Import for All Volumes (Recommended Zerto Import Method)													
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	x
Zerto Import for Data Volumes													
✓	✓	x	x	x	x	x	x	✓	✓	x	✓	x	✓
AWS Import													
✓	✓	x	x	x	x	x	x	✓	✓	x	✓	x	✓

vSphere to AWS - Supported Linux Operating Systems Per Import Method

This section applies to Zerto 7.5 and lower.

Note:

Zerto Tools for Linux is required for supporting **Zerto Import for All Volumes** import method for Linux machines for failover and failback to VMware sites. For more information about ZertoTools, see [Zerto Administration Guide for vSphere Environments](#), in the section **ZertoTools for Linux**.

RHEL/ CentOS 6.7	RHEL/ CentOS 6.9	RHEL/ CentOS 7.0	RHEL/ CentOS 7.1	RHEL/ CentOS 7.2	RHEL/ CentOS 7.3	RHEL/ CentOS 7.4	RHEL/ CentOS 7.5	RHEL/ CentOS 7.6	RHEL/ CentOS 7.7	Ubuntu 14.04	Ubuntu 16.04	SUSE 11 SP3
Zerto Import for All Volumes (Recommended Zerto Import Method)												
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x
Zerto Import for Data Volumes												
✓	✓	x	x	x	x	x	x	x	x	✓	x	✓
AWS Import												
✓	✓	x	x	x	x	x	x	x	x	✓	x	✓

Supported Linux Operating Systems - Automated OS Configuration

This section applies to Zerto 8.0.

Note:

Automated OS Configuration for AWS automatically loads the necessary OS drivers (Windows & Linux) when performing a failover.

ZertoTools for Linux is still supported and is required on virtual machines running RHEL/CentOS 7.0-7.3.

For more information, see [Administration for vSphere Environments](#), in the section **Replication From a Protected Site vCenter Server to a Recovery Site AWS**.

RHEL/ CentOS 7.0	RHEL/ CentOS 7.1	RHEL/ CentOS 7.2	RHEL/ CentOS 7.3	RHEL/ CentOS 7.4	RHEL/ CentOS 7.5	RHEL/ CentOS 7.6	RHEL/ CentOS 7.7	RHEL/ CentOS 8.0	RHEL/ CentOS 8.1
Zerto's Automated OS Configuration									
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Virtual Manager - Supported Browsers

Google Chrome	Mozilla Firefox	Microsoft Internet Explorer	Microsoft Edge	Safari
Zerto supports the latest 2 versions	Zerto supports the latest 2 versions	IE 11	Zerto supports the latest 2 versions	Zerto supports the latest 2 versions

Zerto Virtual Manager Features - Support Matrix


Zerto Version												
Feature	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
File System Indexing and File and Folder Recovery Process												
Operating Systems												
Windows XP and 2003 server	x	x	x	x	x	x	x	x	x	x	x	x
Windows Vista and 2008 server and above	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Linux	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
File Systems and Volume Managers												
FAT	x	x	x	x	x	x	x	x	x	x	x	x
NTFS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ReFS	x	x	x	x	x	x	x	x	x	x	x	x
EXT2 / EXT3 / EXT4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓


Zerto Version												
Feature	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
XFS	x	x	x	x	x	x	x	x	x	x	x	x
LVM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LVM partitions spanning across multiple disks is supported from Zerto 7.5. Unsupported configurations: LVM over RAID disk LVM is not supported for File System Indexing												
Files and Folders												
Compressed Files	x	x	x	x	x	x	x	x	x	x	x	x
Sparse Files	x	x	x	x	x	x	x	x	x	x	x	x
Encrypted Files	x	x	x	x	x	x	x	x	x	x	x	x
Deduplicated Files	x	x	x	x	x	x	x	x	x	x	x	x
Links (Symbolic Links, Hard Links / Junctions, Mount Points)	x	x	x	x	x	x	x	x	x	x	x	x
Multi-partition Volumes (Spanned / Mirrored / Striped Volumes)	x	x	x	x	x	x	x	x	x	x	x	x
Standard Files and Folders	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Version												
Feature	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
Offsite Backup - Supported Repository Protocols												
SMB v2.0, 3.0	x	x	x	x	x	x	x	x	x	x	x	x
Long-term Retention - Supported Repository Protocols												
SMB v1.0	x	x	x	x	x	x	x	x	x	x	x	x
SMB v2.0, v3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SMB v3.1.1	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓
NFS v3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application-aware Retention												
VSS	x	x	x	x	x	x	x	x	x	✓	✓	✓

External SQL Server Databases - Support Matrix

Note: The external ZVM SQL server database recovery model must be configured to Simple.

Zerto Version												
Supported Microsoft SQL Server Versions	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
 Microsoft SQL Server Enterprise 2008, 2008R2	✓	✓	✓	✓	x*	x*	x*	x*	x*	x*	x*	x*
Microsoft SQL Server Enterprise 2012, 2014, 2016	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Server Enterprise 2017	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Server Enterprise 2019	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓
Microsoft SQL Server Standard 2008, 2008R2	✓	✓	✓	✓	x	x	x	x	x	x	x	x
Microsoft SQL Server Standard 2012, 2014, 2016	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Zerto Version												
Supported Microsoft SQL Server Versions	7.0	7.0U1	7.0U2	7.0U3	7.5	7.5U1	7.5U2	7.5U3	7.5U4	8.0	8.0U1	8.0U2
												
Microsoft SQL Server Standard 2017	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Server Standard 2019	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓
Microsoft SQL Express Server* 2008, 2008R2	✓	✓	✓	✓	x	x	x	x	x	x	x	x
Microsoft SQL Express Server* 2012, 2014, 2016	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Express Server* 2017	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft SQL Express Server* 2019	x	x	x	x	x	x	✓	✓	✓	✓	✓	✓

* For capacity, click [here](#) to review the Zerto Scale and Benchmarking Guidelines.

Zerto enhances the Zerto IT Resilience Platform by converging disaster recovery and backup to deliver continuous availability within a simple, scalable platform. Zerto delivers enhanced analytics, platform improvements and cloud performance upgrades required in the future of IT resilience.

Learn more at [Zerto.com](https://www.zerto.com).

For assistance using Zerto's Solution, contact: [@Zerto Support](https://twitter.com/ZertoSupport).

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