

Zerto

Zerto Virtual Replication - Guide to Alarms, Alerts and Events

All Environments

Version 6.5

Copyright © 2018, Zerto Ltd. All rights reserved.

Information in this document is confidential and subject to change without notice and does not represent a commitment on the part of Zerto Ltd. Zerto Ltd. does not assume responsibility for any printing errors that may appear in this document. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or information storage and retrieval systems, for any purpose other than the purchaser's personal use, without the prior written permission of Zerto Ltd.

All other marks and names mentioned herein may be trademarks of their respective companies.

The scripts are provided by example only and are not supported under any Zerto support program or service.

All examples and scripts are provided "as-is" without warranty of any kind. The author and Zerto further disclaim all implied warranties including, without limitation, any implied warranties of merchantability or of fitness for a particular purpose.

In no event shall Zerto, its authors, or anyone else involved in the creation, production, or delivery of the scripts be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use the sample scripts or documentation, even if the author or Zerto has been advised of the possibility of such damages. The entire risk arising out of the use or performance of the sample scripts and documentation remains with you.

ZVR-ALR-ALL-6.5 Rev01 U2 Dec2018

CHAPTER 1: ZERTO VIRTUAL REPLICATION ALERTS	4
Monitoring Alerts	4
Amazon Web Services (AWS) Alerts	5
Backup Alerts	6
Licensing Alerts	8
Storage Alerts	12
vCloud Director Alerts	13
VPG Alerts	19
VRA Alerts	39
Zerto Cloud Appliance Alerts	54
Zerto Cloud Connector Alerts	55
Zerto Cloud Manager Alerts	57
Zerto Virtual Manager Alerts	57
File Level Restore Alerts	67
CHAPTER 2: ZERTO VIRTUAL REPLICATION ALARMS IN VMWARE VSPHERE	69
Alarms and Alerts	69
Customized Alarms After an Upgrade	69
Alarms in VMware vSphere	69
CHAPTER 3: ZERTO VIRTUAL REPLICATION EVENTS	76
Monitoring Events	76
Events	76

When a problem is identified by Zerto Virtual Replication, an alert is issued.

The following topics are described in this :

- “Monitoring Alerts”, below
- “Amazon Web Services (AWS) Alerts”, on page 5
- “Backup Alerts”, on page 6
- “Licensing Alerts”, on page 8
- “Storage Alerts”, on page 12
- “vCloud Director Alerts”, on page 13
- “VPG Alerts”, on page 19
- “VRA Alerts”, on page 39
- “Zerto Cloud Appliance Alerts”, on page 54
- “Zerto Cloud Connector Alerts”, on page 55
- “Zerto Cloud Manager Alerts”, on page 57
- “Zerto Virtual Manager Alerts”, on page 57
- “File Level Restore Alerts”, on page 67

Monitoring Alerts

All alerts issued by Zerto Virtual Replication are displayed in the Zerto User Interface. An alert status indicator is displayed in the top left of the display and specific details of all issued alerts are displayed in the ALERTS tab under the top MONITORING tab.

Alert ID	Entity	Site Name	VPG	TimeStamp	Description
ZVM0002	VRA	Site2-CSP-R		22/04/2015 14:46:33	Zerto Virtual Manager is not connected to VRA with IP 172.20.99.79 on...
ZVM0002	VRA	Site2-CSP-R		27/04/2015 08:56:42	Zerto Virtual Manager is not connected to VRA with IP 172.20.99.73 on...
ZVM0002	VRA	Site3-Ent1	HR	28/04/2015 15:14:41	Zerto Virtual Manager is not connected to VRA with IP 172.20.99.81 on...
VRA0005	VRA	Site1-CSP-P	HR	28/04/2015 15:31:21	Connection between local site VRA, 172.20.99.88 (on host 172.20.99.2)...
VPG0010	VPG	Site1-CSP-P	HR	28/04/2015 15:20:31	VPG HR exceeds configured RPO of 5 minutes by more than 25%.

The information displayed in the ALERTS tab includes the VPG name, entity name that triggered the alert, the date and time the alert was issued and a description of the alert.

Alert Status

The alert status indicator in the bottom left shows the number of alerts and the color for the most severe alert that is currently valid. After the alert has been resolved, the alert is removed from the ALERTS tab and the alert status indicator changes, if appropriate, to show the new alert status.

Warnings are indicated by the orange icon and alerts by the red icon.

Working With the Alert Tab

You can dismiss alerts by selecting the relevant alerts and clicking the ACKNOWLEDGE button. The number of alerts displayed in the title bar alerts indicator is the number of unacknowledged alerts.

If the description of the alert is truncated, hover over the alert to display a tooltip with the complete description.

Alerts from previous versions are displayed with an Unknown link.

Click EXPORT to save the alerts as a Microsoft Excel worksheet.

The Zerto Virtual Replication alerts are grouped into categories where the first three characters of the alert identifies the category:

AWS: Alerts relating to the recovery site being Amazon Web Services (AWS).

BCK: Alerts relating to offsite backup and VBA issues.

LIC: Alerts relating to licensing issues.

STR: Alerts relating to storage issues.

VCD: Alerts relating to issues with vCloud Director.

VPG: Alerts relating to the VPGs and the virtual machines being protected.

VRA: Alerts relating to VRA issues.

ZCA: Alerts relating to the recovery site being a cloud.

ZCC: Alerts relating to Zerto Cloud Connectors used by cloud service providers.

ZCM: Alerts relating to the Zerto Cloud Manager.

ZVM: Alerts relating to the Zerto Virtual Manager.

Amazon Web Services (AWS) Alerts

AWS alerts are triggered when there is a problem with the AWS recovery site.

[AWS0001](#)

AWS0001

Alert Name Storage removed

Alert Category Public Cloud

Severity Error

Message Displayed The Zerto storage cannot be found. Re-install the Zerto Cloud Appliance (ZCA).

Description The storage used for the replicated data managed by the VRA in ZCA is not found.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The data replicated from the protected site is saved in a ZCA storage which cannot be found.	Reinstall the Zerto Cloud Appliance (ZCA).

Backup Alerts

Offsite backup alerts are triggered when there is a problem with the Zerto Virtual Backup Appliance (VBA).

BCK0001

BCK0002

BCK0005

BCK0006

BCK0007

BCK0001

Alert Name Offsite backup fails

Alert Category Offsite backup

Severity Warning

Message Displayed The scheduled backup on VPG {vpg_name} has failed for the last 3 days.

Description The VPG is defined with extended recovery but backups have failed for the last 3 days, including attempted retries.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
No room on the disk where the repository is defined.	Check the amount of space on the disk where the repository is located.
Access permissions to the repository have changed and the backup job no longer has permission to write to the repository.	Check the authorization required to access the repository.
Network problems.	Check the network is working properly.

Alarm in vCenter Server [BackupFailsConstantlyWarning](#)

BCK0002

Alert Name Offsite backup fails

Alert Category Offsite backup

Severity Error

Message Displayed The scheduled backup on VPG **{vpg_name}** has failed for the last 7 days.

Description The VPG is defined with extended recovery but backups have failed for the last 7 days, including attempted retries.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
No room on the disk where the repository is defined.	Check the amount of space on the disk where the repository is located.
Access permissions to the repository have changed and the backup job no longer has permission to write to the repository.	Check the authorization required to access the repository.
Network problems.	Check the network is working properly.

Alarm in vCenter Server [BackupFailsConstantlyError](#).

BCK0005

Alert Name Offsite backup repository disconnected.

Alert Category Offsite backup

Severity Error/Warning

Message Displayed Repository **{repository_name}** is disconnected. Your backups for VPGs: **{vpg_names}** are at risk.

Description The repository is not accessible by the VBA. If the repository stored backup jobs then an error alert is issued, otherwise, a warning is issued.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Network problems.	Check the network is working properly.

Alarm in vCenter Server [BackupTargetDisconnected](#).

BCK0006

Alert Name Offsite backup repository disconnected.

Alert Category Offsite backup

Severity Error

Message Displayed Virtual Backup appliance is disconnected. Your backup for VPGs: **{vpg_names}** are at risk.

Description The VBA is not accessible. If there are VPGs that are affected, these VPGs are listed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VBA is not running.	Check that the VBA service is running.
Network problems.	Check the network is working properly.

Alarm in vCenter Server [VbaDisconnected](#).

BCK0007

Alert Name Offsite backup repository not defined.

Alert Category Offsite backup

Severity Warning

Message Displayed Extended DR is defined for VPG **{vpg_name}** but a backup repository is specified as 'None'.

Description The VPG is defined with extended recovery but a repository cannot be found to specify for the VPG and therefore backups cannot be performed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A repository is not defined.	Define a repository in the Zerto User Interface.

Alarm in vCenter Server [BackupTargetIsNone](#).

Licensing Alerts

Licensing alerts are triggered when there is a problem with the Zerto Virtual Replication license, for example it is about to expire or has already expired.

LIC0001

LIC0002

LIC0003

LIC0004

LIC0005

LIC0006

LIC0007

LIC0008

LIC0009

LIC0010

LIC0011

LIC0001

Alert Name License exceeded

Alert Category Licensing

Severity Warning

Message Displayed You are licensed to protect a maximum of **{n}** VMs until **{date}**. Currently **{m}** VMs are protected. Contact your account manager to extend your license. Note: Protection of virtual machines continues.

Description Your license restricts you to protecting a maximum number of virtual machines and you have reached 80% of this number or have exceeded this number.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Too many virtual machines are protected.	Contact your Zerto account manager to resolve the issue.

Alarm in vCenter Server [License](#).

LIC0002

Alert Name License exceeded

Alert Category Licensing

Severity Warning

Message Displayed You are licensed to use Zerto Virtual Replication with a maximum of **{n}** CPU sockets until **{date}**. Currently **{m}** sockets are in use. Contact your account manager to extend your license. Note: Protection of virtual machines continues.

Description Your license restricts you to protect virtual machines using a maximum number of CPU sockets and you are close to or have exceeded this number.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Too many CPU sockets are used in the protection of virtual machines.	Contact your Zerto account manager to resolve the issue.

Alarm in vCenter Server [License](#)

LIC0003

Alert Name License about to expire

Alert Category Licensing

Severity Warning

Message Displayed Your license is due to expire in **{days}**. Contact your account manager to extend your license. Note: Protection of virtual machines continues.

Description Your license is close to its expiration date.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Your license is close to its expiration date.	Contact your Zerto account manager to extend the license life.

Alarm in vCenter Server [License](#).

LIC0004

Alert Name License expired and exceeded

Alert Category Licensing

Severity Warning

Message Displayed Your license has expired and you are also protecting more VMs than the license allows. Contact your account manager to replace your license. Note: Protection of virtual machines continues.

Description Your license is passed its expiration date and you are protecting more virtual machines than the license permits.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Your license has expired and more virtual machines than permitted are being protected.	Contact your Zerto account manager to extend the license life and increase the number of virtual machines that can be protected.

Alarm in vCenter Server [License](#).

LIC0005

DEPRECATED

Alert Name License expired and exceeded

Alert Category Licensing

Severity Warning

Message Displayed Your license has expired and you are also using Zerto Virtual Replication with more sockets than the license allows. Contact your account manager to replace your license. Note: Protection of virtual machines continues.

Description Your license is passed its expiration date and you are using more CPU sockets than the license permits.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Your license has expired and more CPU sockets than permitted are being used.	Contact your Zerto account manager to extend the license life and increase the number of CPU sockets that can be used.

Alarm in vCenter Server [License](#)

LIC0006

Alert Name License expired

Alert Category Licensing

Severity Warning

Message Displayed Your license has expired. Contact your account manager to renew your license. Note: Protection of virtual machines continues.

Description Your license is passed its expiration date.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Your license has expired.	Contact your Zerto account manager to extend the license life.

Alarm in vCenter Server [License](#).

LIC0007

Alert Name License exceeded

Alert Category Licensing

Severity Warning

Message Displayed You are licensed to protect a maximum of **{n}** VMs. Currently **{m}** VMs are being protected. Contact your account manager to extend your license. Note: Protection of virtual machines continues.

Description You are protecting more virtual machines than the license permits.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
More virtual machines than permitted are being protected.	Contact your Zerto account manager to increase the number of virtual machines that can be protected.

Alarm in vCenter Server [License](#)

LIC0008

DEPRECATED

Alert Name License exceeded

Alert Category Licensing

Severity Warning

Message Displayed You are licensed to use Zerto Virtual Replication with a maximum of {n} CPU sockets. Currently {m} sockets are in use. Contact your account manager to extend your license. Note: Protection of virtual machines continues.

Description You are using more CPU sockets than the license permits.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
More CPU sockets than permitted are being used.	Contact your Zerto account manager to increase the number of CPU sockets that can be used.

Alarm in vCenter Server [License](#)

LIC0009

Alert Name Public cloud replication not supported

Alert Category Licensing

Severity Error

Message Displayed The Current license does not support Public Cloud replication. Contact your account manager to upgrade.

Description Your current license does not support Public Cloud replication. Contact your account manager to upgrade.

Note: All protected virtual machines will continue to be protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
License has been downgraded.	Contact your account manager to upgrade.

Alarm in vCenter Server [License](#)

LIC0010

Alert Name vCD not supported

Alert Category Licensing

Severity Error

Message Displayed vCD is not supported under this license. For more details contact your account manager.

Description Your current license does not support vCD. For more details contact your account manager.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Your current license does not support vCD	Contact your account manager.

Alarm in vCenter Server [License](#)

LIC0011

Alert Name Cross hypervisor replication not supported

Alert Category Licensing

Severity Error

Message Displayed The current license does not support cross hypervisor replication. For more details contact your account manager.

Description Your current license does not support cross hypervisor replication. For more details contact your account manager.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Your current license does not support cross hypervisor replication.	Contact your account manager.

Storage Alerts

Storage alerts are triggered when there is a problem with a datastore specified in a VPG.

[STR0001](#)

[STR0002](#)

[STR0004](#)

STR0001

Alert Name Datastore not accessible

Alert Category Storage

Severity Error

Message Displayed The storage **{storage_name}** is not accessible. Reason **{reason}**.

Description The hypervisor manager reports that the specified storage holding either a recovery disk or a journal disk is inaccessible.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The hypervisor manager has reported a problem accessing the storage.	Refer to the hypervisor manager, VMware vCenter Server or Microsoft SCVMM, documentation to resolve the issue.

Alarm in [vCenter Server Datastore](#)

STR0002

Alert Name Datastore full

Alert Category Storage

Severity Error

Message Displayed The storage **{storage_name}** is close to full capacity and further protection of VMs in VPGs using this storage cannot continue until you increase the storage size. The minimum free space required is **{n}**GB.

Description The storage has too little free space remaining. Until the issue is resolved further protection of the virtual machines being recovered to this storage cannot continue.

This alert is triggered when the free space falls below 30GB or 15% of the storage, whichever is smaller. Thus, with large storage where 30GB is less than 15%, the alert will be triggered when the amount of free space is less than 30GB of the total

size. With small storage where 30GB is more than 15%, the alert will be triggered when the amount of free space is less than 15% of the total size.

Recovery operations can still be performed to the last checkpoint written to the journal, before protection was halted.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Storage is too small.	Increase the size of the storage.
	Change the recovery storage being used in the VPG definition.

Alarm in vCenter Server [RecoveryDataStoreFull](#)

STR0004

Alert Name Datastore low in space

Alert Category Storage

Severity Warning

Message Displayed The storage **{storage_name}** is close to the minimum **{n}** GB free space required to continue protection of VMs in VPGs using this storage.

Description The storage is close to its minimum of free space. If the issue is not resolved, protection of the virtual machines being recovered to this storage will stop when the limit is reached.

This alert is triggered when the free space falls below 45GB or 25% of the storage, whichever is smaller.

Recovery operations can still be performed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Storage is too small.	Increase the size of the storage.
	Change the recovery storage being used in the VPG definition.

Alarm in vCenter Server [RecoveryDataStoreLowFreeSpace](#)

vCloud Director Alerts

vCloud Director alerts are triggered when there is a problem with the vCD specified in a VPG.

VCD0001

VCD0002

VCD0003

VCD0004

VCD0005

VCD0006

VCD0007

VCD0010

VCD0014

VCD0015

VCD0016

VCD0017

VCD0018

VCD0020

VCD0021

VCD0022

VCD0001

Alert Category vCloud Director

Severity Error

Message Displayed Cannot obtain backing vCenter Servers for Org vDC **{orgvdc_name}**.

Description The underlying vCenter Server for the Org vDC is not found.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Org vDC not found in vCenter.	Contact the vSphere/vCD administrator.

Alarm in vCenter Server [VCDReflection](#)

VCD0002

Alert Category vCloud Director

Severity ErrorvCD

Message Displayed Found multiple backing vCenter Servers for Org vDC **{orgvdc_name}**, server IDs **{identifier}**.

Description The Org vDC is defined in more than one underlying vCenter Server.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Org vDC is defined to more than one vCenter.	Contact the vSphere/vCD administrator.

Alarm in vCenter Server [VCDReflection](#)

VCD0003

Alert Category vCloud Director

Severity Error

Message Displayed Cannot find Org vDC storage profile **{sp_name}** in vCenter. It exists in vCD.

Description The Org vDC storage profile specified exists in vCD but cannot be found in the underlying vCenter Server.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Org vDC storage profile not found in vCenter.	Contact the vSphere/vCD administrator.

Alarm in vCenter Server [VCDReflection](#)

VCD0004

Alert Category vCloud Director

Severity Error

Message Displayed Cannot find provider vDC storage profile **{sp_name}** in vCenter. It exists in vCD.

Description The provider vDC storage profile specified exists in vCD but cannot be found in the underlying vCenter Server.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Provider vDC storage profile not found in vCenter.	Contact the vSphere/vCD administrator.

Alarm in vCenter Server [VCDReflection](#)

VCD0005

Alert Category vCloud Director

Severity Error

Message Displayed Cannot extract Org vDC information for Org vDC network **{network}**, message is **{msg}**.

Description The network information required by Zerto Virtual Replication cannot be retrieved.

The exception should give more information. For example, vCD 1.5 doesn't let Zerto Virtual Replication retrieve information on specific types of networks.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
vCD 1.5 is being used.	Refer to the exception message. Contact the vSphere/vCD administrator.
vCD 5.1 and higher is being used.	Refer to the exception message. Contact the vSphere/vCD administrator or Zerto support.

Alarm in vCenter Server [VCDReflection](#)

VCD0006

Alert Category vCloud Director

Severity Error

Message Displayed Provider vDC **{pvdc_name}** of Org vDC **{orgvdc_name}** wasn't found in reflection. Ignoring this Org vDC.

Description A problem occurred with Zerto Virtual Replication accessing the provider vDC metadata it has in the recovery site. The problem should fix itself in a few minutes.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Zerto Virtual Replication access difficulty.	Wait a few minutes for the problem to resolve itself.

Alarm in vCenter Server [VCDReflection](#)

VCD0007

Alert Category vCloud Director

Severity Error

Message Displayed Cannot obtain resource pools for Org vDC **{orgvdc_name}**, exception is **{exception}**.

Description The connection to vCD was dropped, so the required resource pools for the Org vDC could not be retrieved.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Disconnection with vCD.	Contact the vSphere/vCD administrator.

Alarm in vCenter Server [VCDReflection](#)

VCD0010

Alert Category vCloud Director

Severity Error

Message Displayed Failed to fetch orgNetwork due to exception is **{exception}**, orgNetwork is **{network}**.

Description The network information required by Zerto Virtual Replication cannot be retrieved.

The exception should give more information. For example, vCD 1.5 doesn't let Zerto Virtual Replication retrieve information on specific types of networks.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
vCD 1.5 is being used.	Refer to the exception message. Contact the vSphere/vCD administrator.
vCD 5.1 and higher is being used.	Refer to the exception message. Contact the vSphere/vCD administrator or Zerto support.

Alarm in vCenter Server [VCDReflection](#)

VCD0014

Alert Name vCD disconnection

Alert Category vCloud Director

Severity Error

Message Displayed No connection to vCD **{vcd_id}**.

Description Access to vCD could not be established.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Wrong credentials.	Check the credentials.
vCD is down.	Check whether vCD is up or not.
Network problems.	Check the network is working properly.

Alarm in vCenter Server [VCDConnector](#)

VCD0015

Alert Name AMQP-server disconnection

Alert Category vCloud Director

Severity Error

Message Displayed Connected to vCloud **{vcd_id}** but failed to connect to AMQP-server for notifications. Last connection error: "**{error}**".

Description The connection to the AMQP server in vCD failed, even though the connection to vCD itself succeeded.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Network problems.	Refer to the exception message. Contact the vSphere/vCD administrator. In the RabbitMQ GUI has been installed: <ol style="list-style-type: none"> 1. Verify that the Zerto Virtual Manager is unable to connect to the AMQP server. 2. Verify that the IP address credentials for the AMQP are correct. 3. Verify that there is no proxy, either in Internet Explorer's LAN settings, or DNS settings, that might be blocking the connection. 4. Login to the vCD interface and in Administration > Blocking Tasks > Settings verify AMQP Broker Settings are configured properly via the Test AMQP Connection button.
Configuration problems.	Refer to the exception message. Contact the vSphere/vCD administrator. Verify that the Exchange and Queue previously created by the Zerto Virtual Replication AMQP Installer are listed properly in RabbitMQ: <ol style="list-style-type: none"> 1. Login to the RabbitMQ web-based GUI (http://server-name:55672/mgmt credentials are guest/guest). 2. Click the Exchanges tab. 3. If the exchange vCD does not exist, create it manually, and check to see if the connectivity issue is resolved.

Alarm in vCenter Server [VCDConnector](#)

VCD0016

Alert Name Provider vDC datastore not found

Alert Category vCloud Director

Severity Error

Message Displayed Datastore **{ds_name}** for provider vDC **{pvdc_name}** not found in vCD datastore query.

Description Access to the datastore cannot be established for the provider vDC.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The datastore was not found.	Contact the vCD administrator.

Alarm in vCenter Server [VCDReflection](#)

VCD0017

Alert Category vCloud Director

Severity Error

Message Displayed Failed extracting metadata for Org vDC **{orgvdc_name}**. Exception **{exception}**.

Description The metadata for the Org vDC in vCD could not be extracted. The Org vDC is ignored.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The Org vDc metadata was not found.	Contact the vCD administrator.

Alarm in vCenter Server [VCDReflection](#)

VCD0018

Alert Name Duplicated MAC addresses

Alert Category vCloud Director

Severity Error

Message Displayed VM **{vm_name}** has NICs with duplicate MACs: **nic** and **nic** have MAC **{mac}**.

Description The same MAC address is used by more than one NIC for the virtual machine.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Duplicate MAC addresses.	Contact the system administrator to change the duplicate MAC addresses.

Alarm in vCenter Server [VCDConnector](#)

VCD0020

Alert Name VM inconsistency in vApp

Alert Category vCloud Director

Severity Error

Message Displayed Number of entities **{entity_list}** in startup section is different from the number of VMs **{vm_name}** in vApp **{vapp_name}**.

Description The list of virtual machines registered to the vApp does not match the actual virtual machines in the vApp.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Number of virtual machines in the vApp doesn't match the number in the startup section.	Check if a virtual machine was removed from the vCenter Server.

Alarm in vCenter Server [VCDReflection](#)

VCD0021

Alert Name VM inconsistency in vApp

Alert Category vCloud Director

Severity Error

Message Displayed Unknown entity **{entity_name}** in startup section of vApp **{vapp_name}**.

Description One of the entities registered to the vApp does not exist.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Unknown entity in the startup section.	Check if a virtual machine was removed from the vCenter Server.

Alarm in vCenter Server [VCDReflection](#)

VCD0022

Alert Name vCD Protection group missing VM

Alert Category vCloud Director

Severity Error

Message Displayed A single VM: VPG {vpg name} was paused by the system because 1 VM was not found. In order to resume the VPG, return the VM to the inventory. If the VM cannot be returned, remove the VM from the vCD vApp.

Multiple VMs: VPG {vpg name} was paused by the system because {number of VMs} VMs were not found. In order to resume the VPG, return the VMs to the inventory. If the VMs cannot be returned, remove the VMs from the vCD vApp.

Description A VPG was paused by the system because a single or multiple virtual machines were removed from the inventory.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A single or multiple virtual machines were removed from the inventory.	Return the virtual machine to the inventory. If you can't return the virtual machine to the inventory, edit the vCD vApp and remove the virtual machine from the vCD vApp.

Alarm in vCenter Server [ProtectionGroupMissingVmName](#)

VPG Alerts

VPG alerts are triggered when there is a problem with a VPG.

[VPG0003](#)

[VPG0004](#)

[VPG0005](#)

[VPG0006](#)

[VPG0007](#)

[VPG0008](#)

[VPG0009](#)

[VPG0010](#)

[VPG0011](#)

[VPG0012](#)

[VPG0014](#)

[VPG0015](#)

[VPG0016](#)

[VPG0017](#)

[VPG0018](#)

[VPG0019](#)

[VPG0020](#)

[VPG0021](#)

[VPG0022](#)

[VPG0023](#)

[VPG0024](#)

- VPG0025
- VPG0026
- VPG0027
- VPG0028
- VPG0035
- VPG0036
- VPG0037
- VPG0038
- VPG0039
- VPG0040
- VPG0041
- VPG0042
- VPG0043
- VPG0044
- VPG0045
- VPG0046
- VPG0047
- VPG0048
- VPG0049
- VPG0050
- VPG0051
- VPG0052
- VPG0053

VPG0003

Alert Name VPG has low journal history

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG **{vpg_name}** journal history is less than **{x}**% of the configured **{n}**. **{sync_explanation}**

Description During a synchronization, the latest changes in the protection site are added to the journal and older data in the journal is moved to the mirror virtual disk managed by the VRA for the virtual machine. As the synchronization continues and more old data is moved out of the journal, the checkpoints associated with the data are also removed from the journal and new checkpoints are not added to the journal.

This alert is triggered when the journal history configured for the VPG is at least one hour and the journal contains less than 75% of the configured history.

The message specifies that the amount of history is a percentage less than the configured amount.

This alert will automatically be resolved when the journal history is fully populated.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A synchronization (but not a bitmap synchronization, see the next cause) has caused the journal to include less time than defined.	Nothing to do. With time the journal will fill up to the defined time.
A bitmap synchronization has caused the journal to include less time than defined.	If the amount of time left in the journal is too small, the ability to recover if a disaster occurs is impaired. If the advanced settings, <i>Replication Pause Time</i> has been defined, the synchronization will pause to enable the situation to be resolved, for example, by creating a clone.

Alarm in vCenter Server [BacklogWarning](#)

VPG0004

Alert Name VPG has low journal history

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPG {vpg_name} journal history is less than {x} of the configured {n}. {sync_explanation}

Description During a synchronization, the latest changes in the protection site are added to the journal and older data in the journal is moved to the mirror virtual disk managed by the VRA for the virtual machine. As the synchronization continues and more old data is moved out of the journal, the checkpoints associated with the data are also removed from the journal and new checkpoints are not added to the journal.

This alert is triggered in either of the following situations:

- When the journal history configured for the VPG is at most one hour and the journal contains less than 75% of the configured history.
- When the journal history configured for the VPG is at least one hour and the journal contains less than 75% of the configured history or one hour of history.

The message specifies that the amount of history is a large percentage less than the configured amount.

This alert will automatically be resolved when the journal history is fully populated.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A synchronization (but not a bitmap synchronization, see the next cause) has caused the journal to include less time than defined.	Nothing to do. With time the journal will fill up to the defined time.
A bitmap synchronization has caused the journal to include less time than defined.	If the amount of time left in the journal is too small, the ability to recover if a disaster occurs is impaired. If the advanced settings, <i>Replication Pause Time</i> has been defined, the synchronization will pause to enable the situation to be resolved, for example, by creating a clone.
The MTU value is too big to enable transfer over VPN.	Reduce the MTU. Zerto recommends reducing the MTU by increments of 10 until pinging the remote site is successful, using the following ping command: ping URL -f -l MTU_value . Start with an MTU value of 1500. When the MTU value is too big, the ping will return strings similar to the following: Packet needs to be fragmented but DF set .

Alarm in vCenter Server [BacklogError](#)

VPG0005

Alert Name VPG in error state

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed An unresolvable error has occurred with VPG {0}. The VPG must be deleted {1}.

Description The VPG has entered an error state which cannot be fixed

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VPG is in an error state.	Delete the VPG and then reprotect the virtual machines.

Alarm in vCenter Server [ProtectionGroupError](#)

VPG0006

Alert Name VPG missing configuration details

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPG {vpg_name} is missing configuration details.

Description Some of the VPG configuration is not valid and has to be updated.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A virtual machine was added to a VPG or vCD vApp and the added virtual machine has no matching datastore or not enough room on the recovery datastore.	Edit the VPG to define the datastore to use for the virtual machine and the test and failover networks.
A volume was added to a protected virtual machine and the added volume has no matching datastore or not enough room on the recovery datastore.	Edit the VPG to specify a suitable datastore for the added volume.
The VPG settings were not updated because of a site disconnection or hypervisor manager, VMware vCenter Server and Microsoft SCVMM, error.	Check the connectivity between the Zerto Virtual Manager and hypervisor manager, such as VMware vCenter Server and Microsoft SCVMM, and between the protected and recovery sites and if there is a disconnection, fix it.
When performing a Failover or Move operation, you do not specify reverse protection.	If you do not want reverse protection you can remove the VPG, otherwise edit the VPG and save it with the required settings. The default settings are displayed for the missing configuration settings.
An Org vDC network is removed from the recovery site that has a VPG replicating to it.	Edit the VPG to use a different Org vDC network.
A protected volume was resized and the recovery site is VMware vCenter Server is version 4.0.	Edit the VPG to cause the recovery site volumes to be resized.
A source volume associated with an RDM as a target for replication is resized.	<ol style="list-style-type: none"> 1. If the VPG contains more than one virtual machine, remove the source virtual machine from the VPG, and save the changes. If the VPG contains only one virtual machine, delete the VPG. If the virtual machine recovery disks are of VMDK format, make sure to choose to keep the recovery disks. 2. Resize the RDM (both local and remote) as described in the VMware Expanding the size of a Raw Device Mapping (RDM) knowledge base article. 3. Protect the virtual machine again after resizing the RDM. <p>The VPG will go through a Delta Sync.</p>

Alarm in vCenter Server [ProtectionGroupMissingConfiguration](#)

VPG0007

Alert Name VPG replication paused

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed Replication of VPG **{vpg_name}** has paused to enable creating a clone. It will resume in **{n}** minutes.

Description A VPG is being synchronized and if the synchronization continues it will cause all the checkpoints in the journal to be removed. During the synchronization, the latest changes in the protection site are added to the journal and older data in the journal was moved to the mirror virtual disk managed by the VRA for the virtual machine. As the synchronization continues and more old data is moved out of the journal, the checkpoints associated with the data are also removed from the journal and new checkpoints are not added. If the synchronization continues for too long, all the checkpoints can be removed from the journal meaning all recovery operations can no longer be performed.

The message is issued when there are 200 or fewer checkpoints present in the journal and the **Replication Pause Time** is set in the **Advanced Settings** dialog. Zerto recommends configuring a replication pause time. The synchronization is paused for the time specified in the **Replication Pause Time** is set in the **Advanced Settings** dialog, to enable resolving this situation so that recovery can be performed if necessary.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VPG replication paused during a synchronization when the number of checkpoints in the journal was so small that continuing the synchronization would mean losing all the checkpoints making recovery impossible.	Clone the VPG using the last checkpoint, so that if all the VPG checkpoints are lost and recovery is required before new checkpoints are added to the journal, the clone can be used. resume the synchronization. In this case, the longer the time left to complete the synchronization, the greater the risk of not being able to recover in case of a disaster. As soon as the synchronization completes, new checkpoints are added to the journal and recovery is again possible.

Alarm in vCenter Server [CriticalCheckpoint](#)

VPG0008

Alert Name VPG rollback failed

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPG **{vpg_name}** rollback failed. Error is **{exception}**.

Description During a Failover or Move operation, before committing the recovery the decision was taken to roll back the recovery, either manually or automatically.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The connection between the hypervisor manager, such as VMware vCenter Server and Microsoft SCVMM, and the Zerto Virtual Manager is down.	Check the connectivity between the hypervisor manager, and Zerto Virtual Manager.
The connection between the Zerto Virtual Manager and the VRA is down.	Check the connectivity between the Zerto Virtual Manager and the VRA
An internal error occurred.	Contact Zerto support.

Alarm in vCenter Server [UndoRollbackFailed](#)

VPG0009

Alert Name VPG target RPO exceeded

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG {vpg_name} exceeds configured RPO of {n} by more than {m}%.

Description The IOs are not being replicated fast enough and this is causing the current RPO for the VPG to be between 15% and 25% more than the target RPO specified in the VPG SLA settings.

This alert is triggered when the actual RPO, the time between writing checkpoints to the journal, is more than 15%, but less than 25% more than the target RPO specified for the VPG.

Note: When the RPO is being met, after this warning, the following alert is issued: VPG {vpg_name} meeting configured RPO of {n}.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
IO burst.	After the IO burst the RPO should return to under the target RPO setting.
VRA is a bottleneck.	Increase the reserved RAM for the protection and recovery site VRAs.
The network is slow.	Check the network rate to see if this is the problem.
The recovery storage is slow.	Check the IO rate for the recovery storage to see if this is the problem.

Alarm in vCenter Server [RpoWarning](#)

VPG0010

Alert Name VPG target RPO exceeded

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPG {vpg_name} exceeds configured RPO of {n} by more than {m}%.

Description The IOs are not being replicated fast enough and this is causing the current RPO for the VPG to be at least 25% more than the target RPO specified in the VPG SLA settings.

This alert is triggered when the actual RPO, the time between writing checkpoints to the journal, is more than 25% of the target RPO specified for the VPG.

Note: When the RPO is being met, after this error, the following alert is issued: VPG {vpg_name} meeting configured RPO of {n}.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
IO burst.	After the IO burst the RPO should return to under the target RPO setting.
VRA is a bottleneck.	Increase the reserved RAM for the protection and recovery site VRAs.
The network is slow.	Check the network rate to see if this is the problem.
The recovery storage is slow.	Check the IO rate for the recovery storage to see if this is the problem.

Alarm in vCenter Server [RpoError](#)

VPG0011

DEPRECATED

Alert Name VPG test overdue

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG {vpg_name} is overdue to be tested. It is configured for testing every {n}.

Description In order to ensure that the definitions provided for a VPG meet the DR plan, the VPG should be tested every-so-often. The test time specified in the VPG has elapsed and the VPG has still not been tested.

This alert is triggered when the a test has never been performed and it is past the time specified for the testing frequency for the VPG.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VPG was never tested.	Test the VPG.

Alarm in vCenter Server [LastTest](#)

VPG0012

DEPRECATED

Alert Name VPG test overdue

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG **{vpg_name}** was last successfully tested {n} days ago. It is configured for testing every **{m}**.

Description In order to ensure that the definitions provided for a VPG meet the DR plan, the VPG should be tested every-so-often. The testing time is stipulated as part of the VPG definition and this time has elapsed since a test was performed.

This alert is triggered when the last test performed is further in the past than the time specified for the testing frequency for the VPG.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VPG was tested in the past more than the specified value in the VPG SLA settings.	Test the VPG.

Alarm in vCenter Server [LastTest](#)

VPG0014

Alert Name VPG waiting for commit or rollback

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG **{vpg_name}** is waiting for commit/rollback.

Description A Failover or Move operation has been performed and the VPG is waiting for the operation to either be committed or rolled back.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VPG is waiting for the recovery operation to be committed or rolled back.	Commit or rollback the recovery operation.

Alarm in vCenter Server [RecoveryBeforeCommit](#)

VPG0015

Alert Name Resources not enough to support VPG

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed **{resource_pool}** does not have enough resources to support VPG **{vpg_name}**. Recovery is disabled until this issue is resolved. Details: **{details}**

Description The resource pool used for the recovery for the VPG does not have enough resources to recover all the virtual machines in the VPG.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The recovery host resource pool does not have enough resources to recover all the virtual machines in the VPG.	Edit the VPG and change the recovery host for one or more of the VPGs so that there are available resources.
	If write-order fidelity is not required by all the virtual machines in the VPG, remove the virtual machines that don't require write-order fidelity from the VPG and create a new VPG for these virtual machines.
	Increase the resource pool resources.

Alarm in vCenter Server [ResourcePoolInsufficientError](#)

VPG0016

Alert Name Resources pool not found

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed Recovery resource pool cannot be found for VPG **{vpg_name}**.

Description The recovery resource pool has been removed and there is nowhere for the VPG to recover to.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The recovery host resource pool cannot be found.	Edit the VPG and change the recovery host for one or more of the VPGs so that there are available resources.
	If write-order fidelity is not required by all the virtual machines in the VPG, remove the virtual machines that don't require write-order fidelity from the VPG and create a new VPG for these virtual machines.

Alarm in vCenter Server [ResourcePoolMissingError](#)

VPG0017

Alert Name VPG protection paused

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG **{vpg_name}** is paused.

Description During periods when the WAN bandwidth is utilized to its maximum, you can pause the protection of a VPG, to free-up some of this bandwidth. After pausing the protection, the VPG can still be recovered, to the last checkpoint written to the journal before the pause operation.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Pause was clicked to pause the VPG protection.	Click Resume to resume the protection. After resuming protection, a Bitmap Sync will most probably be performed to synchronize the protection and recovery sites.

Alarm in vCenter Server [ProtectionGroupPaused](#)

VPG0018

Alert Name VMs in VPG not configured with a storage policy

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPG **{vpg_name}** is replicating to Org vDC **{orgvdc_name}**. Some VMs in the VPG don't have a storage policy configured, and/or there is no enabled storage policy in the recovery site which contains their datastores.

Description The storage policy that was originally available to the Org vDC is no longer available. Any storage policy that is currently available to the Org vDC does not include the relevant datastores.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Storage policies that include relevant datastores cannot be found.	In VMware vSphere create a new storage policy, or enable an existing storage policy with the relevant datastores.

Alarm in vCenter Server [NoMatchingStorageProfile](#)

VPG0019

Alert Name VPG recovery storage policy disabled

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed Storage policy **{sp_name}** is disabled in Org vDC **{orgvdc_name}**, but it serves as the storage policy for VPGs.

Description The storage policy that was originally available to the Org vDC was disabled. The VPGs cannot be recovered.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The specified storage policy was disabled.	In VMware vSphere create a new storage policy, or enable an existing storage policy with the relevant datastores.

Alarm in vCenter Server [RecoveryStorageProfileDisabled](#)

VPG0020

Alert Name VPG recovery storage policy not found

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed The storage policy with ID **{sp_id}** is not found in Org vDC **{orgvdc_name}**, but it serves as the storage policy for VPGs.

Description The storage policy that was originally available to the Org vDC is no longer available. Any storage policy that is currently available to the Org vDC does not include the relevant datastores. The VPGs cannot be recovered.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Storage policies that include relevant datastores cannot be found.	In VMware vSphere create a new storage policy, or enable an existing storage policy with the relevant datastores.

Alarm in vCenter Server [RecoveryStorageProfileNotFound](#)

VPG0021

Alert Name VPG recovery storage policy not found

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed Storage policy **{sp_name}** is not found in Provider vDC **{pvdc_name}**, but it serves as the storage policy for VPGs.

Description The storage policy that was originally available to the Provider vDC is no longer available. Any storage policy that is currently available to the Provider vDC does not include the relevant datastores. The VPGs cannot be recovered.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Storage policies that include relevant datastores cannot be found.	In VMware vSphere create a new storage policy, or enable an existing storage policy with the relevant datastores.

Alarm in vCenter Server [RecoveryProviderVDCStorageProfileNotFound](#)

VPG0022

Alert Name VPG recovery storage policy disabled

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed Storage policy **{sp_name}** is disabled in Provider vDC **{pvdc_name}**, but it serves as the storage policy for VPGs.

Description The storage policy that was originally available to the Provider vDC was disabled. The VPGs cannot be recovered.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The specified storage policy was disabled.	In VMware vSphere create a new storage policy, or enable an existing storage policy with the relevant datastores.

Alarm in vCenter Server [RecoveryProviderVDCStorageProfileDisabled](#)

VPG0023

Alert Name VPG recovery storage profile not found

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed (vCenter) Storage policy **{sp_name}** in Provider vDC **{pvdc}** is not found in the underlying vCenter, but it serves as the storage policy for VPGs.

Message Displayed (SCVMM) Storage policy **{sp_name}** in Provider vDC **{pvdc}** is not found in the underlying SCVMM, but it serves as the storage policy for VPGs.

Description The storage policy that was originally available in the Provider vDC cannot be found. The VPGs cannot be recovered.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The specified storage policy cannot be found.	In VMware vSphere create a new storage policy, or enable an existing storage policy with the relevant datastores.

Alarm in vCenter Server [RecoveryVcenterStorageProfileMissing](#)

VPG0024

Alert Name VPG storage policy does not include active datastores

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed (vCenter) VPG is replicating to Org vDC **{orgvdc_name}**, but it cannot be recovered because active datastores were removed from the storage policy {sp}.

Message Displayed (SCVMM) VPG is replicating to Org vDC **{orgvdc_name}**, but it cannot be recovered because active storages were removed from the storage policy {sp}.

Description The storage policy that is used for recovery no longer includes the datastores that were being used.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Datastore (vCenter) / storage (SCVMM) not found in the storage policy.	Add the datastore/storage back to the storage policy.
	Change the datastore/storage of the affected virtual machines in the VPG.

Alarm in vCenter Server [RecoveryDatastores NotInStorageProfile](#)

VPG0025

Alert Name vCD vApp network mapping not defined

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed The VPG **{vpg_name}** is protecting the vApp **{vapp}**. Some vApp networks of this vApp are connected to Org vDC networks for which no mapping is defined. The NICs connected to these vApp networks will be disconnected on failover. Configure network mapping for all networks **{networks}**.

Description The VPGs are being recovered in vCD but there is no mapping for the vApp networks. During recovery, the vCD vApps will be created but will not be accessible.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Network mapping for one or more vApp networks has not been configured.	Configure the vApp network mapping.

Alarm in vCenter Server [MissingOrgVdcNetworkMapping](#)

VPG0026

Alert Name VPG recovery storage profile changed

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed The service profile you use in VPG **{vpg_name}** has been changed by your cloud provider.

Description The service profile used to determine the VPG SLA no longer exists. The existing SLA values in the VPG will continue to be used, for example the default journal history and test frequency reminder until you edit the VPG to use a valid service profile.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Service profile specified in the VPG no longer exists.	Consult with the cloud service provider about what service profile to use and edit the VPG to use another service profile.

Alarm in vCenter Server [ServiceProfileMissing](#)

VPG0027

Alert Name VPG includes VMs that are no longer protected

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG {vpg_name} includes the following VMs which are no longer protected: {vm_list}.

Description One or more of the virtual machines in the VPG is no longer being protected. This can occur due to a number of reasons, such as the VRA on the host of a specific virtual machine was removed, or the virtual machine was moved to a different host without a VRA installed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The host for the virtual machine does not have a VRA installed.	Install a VRA on the host.
	vMotion the virtual machines to a host that does have an installed VRA.
	Remove the virtual machine from the VPG.

Alarm in vCenter Server [UnprotectedVMsError](#)

VPG0028

Alert Name Corrupted Org vDC network mapping

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed An Org vDC network mapping setting for networks {networks} in VPG {vpg_name} has become corrupted.

Description The network mapping settings for the Org vDC defined in the VPG has become corrupted.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Corrupted network mappings.	Edit the VPG to fix the mapping.

Alarm in vCenter Server [MissingRecoveryOrgVdcNetworkMapping](#)

VPG0035

Alert Name VPG protected resources not in ZORG

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG outside of ZORG.

VPG {vpg_name} has protected resources which are not assigned to ZORG {zorg_name}.

Move the protected resources to the ZORG or change the VPG organization.

resources: {list_of_resources}

Description The VPG is defined for a specific Zerto Organization, ZORG, but the resources specified for this ZORG in the Zerto Cloud Manager do not include the resources used by the protected virtual machines in the VPG.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VPG is defined for a ZORG but the protected resources used in the VPG are not assigned to the ZORG in the Zerto Cloud Manager.	Update the resources available to the ZORG in the Zerto Cloud Manager to include the required resources.
	If a mistake was made specifying the ZORG for the VPG, edit the VPG to correct the ZORG value.

Alarm in vCenter Server [VPGOutOfZorgOnProtected](#)

VPG0036

Alert Name VPG recovery resources not in ZORG

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG outside of ZORG.

VPG {vpg_name} is using recovery resources which are not assigned to ZORG {zorg_name}.

Reconfigure the recovery resources to the ZORG or change the VPG organization.

resources: {list_of_resources}

Description The VPG is defined for a specific Zerto Organization, ZORG, but the resources specified for this ZORG in the Zerto Cloud Manager do not include the resources assigned for the recovery of the virtual machines in the VPG.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VPG is defined for a ZORG but the recovery resources used in the VPG are not assigned to the ZORG in the Zerto Cloud Manager.	Update the resources available to the ZORG in the Zerto Cloud Manager to include the required resources. If a mistake was made specifying the ZORG for the VPG, edit the VPG to correct the ZORG value.

Alarm in vCenter Server [VPGOutOfZorgOnRecovery](#)

VPG0037

Alert Name Journal history is compromised

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG {vpg_name} has been protected for {x} but the journal history is only {y}.

Description When a virtual machine journal becomes full, Zerto Virtual Replication starts to move data to the recovery disks. Once this begins, the maintained history begins to decrease. If the journal history falls below 75% of the value specified for the Default Journal History parameter, a warning alert is issued in the GUI.

If the journal is not big enough to store all the data for the time specified, as defined in the Journal Size Hard Limit parameter, the time frame for storing data is reduced. When the journal reaches the limit specified in the Journal Size Warning Threshold parameter, an alert is issued.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The journal is not big enough to store all the data for the time specified.	The Journal Size Hard Limit parameter needs to be manually adjusted.

Alarm in vCenter Server [BacklogWarning](#)

VPG0038

Alert Name Journal history is compromised

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPG {vpg_name} has been protected for {x} but the journal history is only {y}.

Description The amount of time specified for the journal is more than the current amount of time, in minutes.

When a virtual machine journal becomes full, Zerto Virtual Replication starts to move data to the recovery disks. Once this begins, the maintained history begins to decrease. If the journal history falls below one hour, an error is issued, or, if the amount of history defined is only one hour, an error is issued if it is less than 45 minutes.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The journal is not big enough to store all the data for the time specified.	The Journal Size Hard Limit parameter needs to be manually adjusted.

Alarm in vCenter Server [BacklogError](#)

VPG0039

Alert Name RDM has an odd number of blocks

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed The RDM {rdm} for the VM {vm_name} in VPG {vpg_name} has an odd number of blocks, which can only be replicated to a target RDM and not to a VMDK.

Description RDM disks with an odd number of blocks can only replicate to RDM disks of the same size with an odd number of blocks and not to VMDKs.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A virtual machine in the VPG includes at least one RDM with an odd number of blocks, defined to be recovered to an RDM with an even number of blocks or to a VMDK.	Recover the RDM to an RDM of the same size.

Alarm in vCenter Server [RdmWithOddNumberOfBlocks](#)

VPG0040

Alert Name Virtual machine hardware mismatch with recovery site

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed Hardware version of protected VMs {vm_names} are not supported on the recovery site {sitename}.The VPG cannot be recovered.

Description The hardware version of one or more of the protected virtual machines is not supported by the version of the recovery host on the recovery site. These virtual machines cannot be powered on in the recovery site after a recovery operation.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The hypervisor managers, such as VMware vCenter Server and Microsoft SCVMM, in both the protected and recovery sites support different virtual machine hardware versions.	Upgrade the recovery host to a version that supports the protected virtual machine hardware version.
	Change the recovery host to one that supports the protected virtual machine hardware version.

Alarm in vCenter Server [VirtualMachineHardwareVersionMismatch](#)

VPG0041

Alert Name Virtual machine running Windows 2003

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPGs {vpg_names} include VMs running Windows 2003 operating system. These VMs drop their domains since guest customization is enabled.

Description Virtual machines with the Windows Server 2003 operating system being replicated to vCD version 5.5, when guest customization is specified for the VPG, lose the domain setting the virtual machine to be dropped from the domain.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VPG includes virtual machines running the Windows Server 2003 operating system and guest customization is enabled for the VPG and the VPG is being replicated to vCD version 5.5.	Manually join the VM to the domain following a recovery operation.

Alarm in vCenter Server [Win2003VmDuringReplicationToVCD](#)

VPG0042

Alert Name Recovery network not found

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed Failover/Move or Failover Test networks do not exist for the following VMs {vm_names}.

Description The network to use during a recovery operation is not found.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The recovery network was not found.	Check the network.

Alarm in vCenter Server [MissingNetworksForVMmsInVPG](#)

VPG0043

Alert Name Cross-replication

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed The Microsoft default SAN policy might cause VM '{VM_name}' (VPG '{VPG_name}') volumes to become offline upon recovery.

Description Due to Microsoft default SAN policy, the volumes for the virtual machine in the VPG might become offline upon recovery.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The Microsoft default SAN policy.	Follow the instructions in http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2000767 so that during a recovery, these volumes are online. The instructions are valid for all operating systems, for example, Windows Server 2012, when either the protected or recovery site is a vSphere environment.

For KBs associated with this Alert, click [here](#).

Alarm in vCenter Server [MisconfiguredSanPolicyOnCrossReplicatedWinVm](#)

VPG0044

Alert Name Cross-replication

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed Protection group has volume of size 0:{0}.

Or:

Protection group has several volumes of size 0:{0}.

Description One or more of the virtual machines in the VPG has a disk with size 0.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
One of the virtual machines in the VPG has a disk with size 0	Remove the virtual machine from the VPG to enable protecting the other virtual machines in the VPG.

Alarm in vCenter Server [VirtualMachineHasZeroSizeVolume](#)

VPG0045

DEPRECATED

Alert Name VPG has low journal history

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG {vpg_name} journal history is less than {x}% of the configured {n}. {sync_explanation}

Description During a synchronization, the latest changes in the protection site are added to the journal and older data in the journal is moved to the mirror virtual disk managed by the VRA for the virtual machine. As the synchronization continues and more old data is moved out of the journal, the checkpoints associated with the data are also removed from the journal and new checkpoints are not added to the journal.

This alert is triggered when the journal history configured for the VPG is at least one hour and the journal contains less than 75% of the configured history.

The message specifies that the amount of history is a percentage less than the configured amount.

This warning alert is issued if the alert [VPG0003](#) becomes persistent.

This alert will automatically be resolved when the journal history is fully populated.

Alarm in vCenter Server [BacklogWarning](#)

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A synchronization (but not a bitmap synchronization, see the next cause) has caused the journal to include less time than defined.	Nothing to do. With time the journal will fill up to the defined time.
A bitmap synchronization has caused the journal to include less time than defined.	If the amount of time left in the journal is too small, the ability to recover if a disaster occurs is impaired. If the advanced settings, <i>Replication Pause Time</i> has been defined, the synchronization will pause to enable the situation to be resolved, for example, by creating a clone.

VPG0046

DEPRECATED

Alert Name VPG has low journal history

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPG {vpg_name} journal history is less than {x} of the configured {n}. {sync_explanation}

Description During a synchronization, the latest changes in the protection site are added to the journal and older data in the journal is moved to the mirror virtual disk managed by the VRA for the virtual machine. As the synchronization continues and more old data is moved out of the journal, the checkpoints associated with the data are also removed from the journal and new checkpoints are not added to the journal.

This alert is triggered in either of the following situations:

- When the journal history configured for the VPG is at most one hour and the journal contains less than 75% of the configured history.
- When the journal history configured for the VPG is at least one hour and the journal contains less than 75% of the configured history or one hour of history.

The message specifies that the amount of history is a large percentage less than the configured amount.

This error alert is issued if the alert [VPG0004](#) becomes persistent.

This alert will automatically be resolved when the journal history is fully populated.

Alarm in vCenter Server [BacklogError](#)

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A synchronization (but not a bitmap synchronization, see the next cause) has caused the journal to include less time than defined.	Nothing to do. With time the journal will fill up to the defined time.
A bitmap synchronization has caused the journal to include less time than defined.	If the amount of time left in the journal is too small, the ability to recover if a disaster occurs is impaired. If the advanced settings, <i>Replication Pause Time</i> has been defined, the synchronization will pause to enable the situation to be resolved, for example, by creating a clone.
The MTU value is too big to enable transfer over VPN.	Reduce the MTU. Zerto recommends reducing the MTU by increments of 10 until pinging the remote site is successful, using the following ping command: <code>ping URL -f -l MTU_value</code> . Start with an MTU value of 1500. When the MTU value is too big, the ping will return strings similar to the following: Packet needs to be fragmented but DF set.

VPG0047

DEPRECATED

Alert Name Journal history is compromised

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed VPG {vpg_name} has been protected for {x} but the journal history is only {y}.

Description When a virtual machine journal becomes full, Zerto Virtual Replication starts to move data to the recovery disks. Once this begins, the maintained history begins to decrease. If the journal history falls below 75% of the value specified for the Default Journal History parameter, a warning alert is issued in the GUI.

This warning alert is issued if the alert [VPG0037](#) becomes persistent.

If the journal is not big enough to store all the data for the time specified, as defined in the Journal Size Hard Limit parameter, the time frame for storing data is reduced. When the journal reaches the limit specified in the Journal Size Warning Threshold parameter, an alert is issued.

Alarm in vCenter Server [BacklogWarning](#)

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The journal is not big enough to store all the data for the time specified.	The Journal Size Hard Limit parameter needs to be manually adjusted.

VPG0048

DEPRECATED

Alert Name Journal history is compromised

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed VPG {vpg_name} has been protected for {x} but the journal history is only {y}.

Description The amount of time specified for the journal is more than the current amount of time, in minutes.

When a virtual machine journal becomes full, Zerto Virtual Replication starts to move data to the recovery disks. Once this begins, the maintained history begins to decrease. If the journal history falls below one hour, an error is issued, or, if the amount of history defined is only one hour, an error is issued if it is less than 45 minutes.

This error alert is issued if the alert [VPG0038](#) becomes persistent.

Alarm in vCenter Server [BacklogError](#)

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The journal is not big enough to store all the data for the time specified.	The Journal Size Hard Limit parameter needs to be manually adjusted.

VPG0049

Alert Name Protection group missing VM

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed A single VM: VPG {vpg name} was paused by the system because 1 VM was not found. In order to resume the VPG, return the VM to the inventory. If the VM cannot be returned, edit the VPG to remove the VM from the VPG.

Multiple VMs: VPG {vpg name} was paused by the system because {number of VMs} VMs were not found. In order to resume the VPG, return the VMs to the inventory. If the VMs cannot be returned, edit the VPG to remove the VMs from the VPG.

Description A VPG was paused by the system because a single or multiple virtual machines were removed from the inventory.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A single or multiple virtual machines were removed from the inventory.	Return the virtual machine to the inventory. If you can't return the virtual machine to the inventory, edit the VPG and remove the virtual machine from the VPG.

Alarm in vCenter Server [ProtectionGroupMissingVmName](#)

VPG0050

Alert Name Protection Group Tested Alert

Alert Category VPG and protected virtual machines

Severity Warning

Message Displayed

VPG with same test time: You have {0} VPGs that did not have failover test in the last {1} months. Affected VPGs are: VPG1, VPG2, VPG3.

Perform failover test for the affected VPGs.

-Or-

VPG with different test time: You have {0} VPGs that did not have failover test at the configured testing time. Affected VPGs are: VPG1, VPG2, VPG3.

Perform failover test for the affected VPGs.

Description

You have {0} VPGs that did not have failover test in the last {1} months. Affected VPGs are: VPG1, VPG2, VPG3.

-Or-

You have {0} VPGs that did not have failover test at the configured testing time. Affected VPGs are: VPG1, VPG2, VPG3.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Failover tests were never performed for the relevant VPGs.	Perform failover test for the affected VPGs

VPG0051

Alert Name Stopping Failover Test Operation Failed

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed

The System is trying to stop the Failover test operation of VPG <VPG1>, but cannot complete this task.

Resolve the issues and then retry stopping the VPG.

Description The System is trying to stop the Failover test operation of VPG <VPG1>, but cannot complete this task.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Issues with any of the following: <ul style="list-style-type: none">■ Recovery or protected Hypervisor■ Storage systems■ VRA or hosts availability■ Network between the sites	Resolve the issues and then retry stopping the VPG

VPG0052

Alert Name Rolling back Failover Live Operation Failed

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed

The System is trying to rollback the Failover live operation of VPG <VPG1>, but cannot complete this task.

Resolve the issues and then retry rolling back the VPG.

Description The System is trying to rollback the Failover live operation of VPG <VPG1>, but cannot complete this task.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Issues with any of the following: <ul style="list-style-type: none">■ Recovery or protected Hypervisor■ Storage systems■ VRA or hosts availability■ Network between the sites	Resolve the issues and then retry stopping the VPG

VPG0053

Alert Name Rolling back Move Operation Failed

Alert Category VPG and protected virtual machines

Severity Error

Message Displayed

The System is trying to rollback the Move operation of VPG <VPG1>, but cannot complete this task.

Resolve the issues and then retry rolling back the VPG.

Description The System is trying to rollback the Move operation of VPG <VPG1>, but cannot complete this task.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Issues with any of the following: <ul style="list-style-type: none">■ Recovery or protected Hypervisor■ Storage systems■ VRA or hosts availability■ Network between the sites	Resolve the issues and then retry stopping the VPG

VRA Alerts

Zerto Virtual Replication Appliance (VRA) alerts are triggered when there is a problem with a VRA.

VRA0001

VRA0002

VRA0003

VRA0004

VRA0005

VRA0006

VRA0007

VRA0008

VRA0009

VRA0010

VRA0011

VRA0012

VRA0013

VRA0014

VRA0015

VRA0016

VRA0017

VRA0018

VRA0019

VRA0020

VRA0021

VRA0022

VRA0023

VRA0024

VRA0025

VRA0026

VRA0027

VRA0028

VRA0029

VRA0030

VRA0032

VRA0033

VRA0035

VRA0036

VRA0037

- VRA0038
- VRA0039
- VRA0040
- VRA0049
- VRA0050
- VRA0051
- VRA0052
- VRA0053
- VRA0054
- VRA0055
- VRA0056

VRA0001

Alert Name Host without VRA

Alert Category VRAs

Severity Warning

Message Displayed Host {host_IP} has no VRA installed, and is part of cluster {cluster_name} that contains hosts with installed VRAs.

Description The host in the cluster does not have a VRA installed. Any protected virtual machine that is vMotioned to this hosts will cause the VPG to stop protecting all the virtual machine.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
One or more hosts in a cluster do not have VRAs installed.	Install a VRA on all the hosts in the cluster.

Alarm in vCenter Server [UninstalledHost](#)

VRA0002

Alert Name VRA without IP

Alert Category VRAs

Severity Error

Message Displayed VRA {vra_name} did not receive an IP from DHCP during installation.

Description You can install a VRA by specifying a static IP address for the VRA virtual machine, which is recommended, or by specifying that the DHCP server should allocate the IP address. The DHCP option was selected when installing the VRA but the DHCP server failed to allocate an IP address to the VRA.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VRA did not install since it was not allocated an IP address.	Check the DHCP server. Reinstall the VRA using a static address.

Alarm in vCenter Server [VraDidntReceiveIp](#)

VRA0003

Alert Name Host IP changes

Alert Category VRAs

Severity Error

Message Displayed IP of VRA on host {host_ip} changed from {ip1} to {ip2}.

Description You can install a VRA by specifying a static IP address for the VRA virtual machine, which is recommended, or by specifying that the DHCP server should allocate the IP address. The DHCP option was selected when installing the VRA and the VRA was installed successfully but later on the DHCP server changed the IP address for the VRA.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VRA IP address is not recognized by Zerto Virtual Replication.	Check the DHCP server, which might have assigned a different IP. Reinstall the VRA using a static address.

Alarm in vCenter Server [VralpChanged](#)

VRA0004

Alert Name VRA lost IP

Alert Category VRAs

Severity Error

Message Displayed VRA on host {host_ip} no longer has an IP allocated (original IP was {ip}).

Description Access to the VRA is not possible via the IP that the Zerto Virtual Manager uses for the VRA.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VRA IP address is not recognized by Zerto Virtual Replication.	If the VRA was installed using the DHCP server, check the DHCP server. Reinstall the VRA using a static address. Check if the VRA can boot up.

Alarm in vCenter Server [VraToVraConnection](#)

VRA0005

Alert Name VRAs not connected

Alert Category VRAs

Severity Error

Message Displayed Connection between local site VRA, {vra_name} (on host {host_name}), and peer site VRA, {vra_name} is down.

Description The local VRA cannot communicate with the peer site VRA to send data for recovery.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Network problems.	Check whether the peer site VRA is pingable.
VRA is down.	If the VRA is down, try rebooting the VRA.

Alarm in vCenter Server [VraToVraConnection](#)

VRA0006

Alert Name Datastore for journal disk is full

Alert Category VRAs

Severity Error

Message Displayed Cannot write to journal disk {journal} because datastore is almost full.

Description The datastore is nearing capacity and has no more room for updates to the journal.

This alert is triggered when the datastore space for the journal falls below 30GB or 15%, whichever is smaller.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Datastore is full.	Increase the datastore size.

Alarm in vCenter Server [VraLogVolume](#)

VRA0007

Alert Name I/O error to journal

Alert Category VRAs

Severity Error

Message Displayed IO error to journal disk {journal}.

Description The VRA cannot write to the journal.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Storage problems.	Check the datastore to see if it has enough free space and is accessible.

Alarm in vCenter Server [VraLogVolume](#)

VRA0008

Alert Name Recovery disk and VMs missing

Alert Category VRAs

Severity Error

Message Displayed Recovery disk and its virtual machine are missing.

Description The recovery disks for the a protected virtual machine managed by the VRA cannot be found. This should never happen.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks cannot be found.	Contact Zerto support.

Alarm in vCenter Server [VraTargetVolume](#)

VRA0009

Alert Name Recovery disk missing

Alert Category VRAs

Severity Error

Message Displayed Recovery disk on virtual machine {vm_name} is missing.

Description The recovery disk managed by the VRA for the a protected virtual machine cannot be found. This should never happen.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks cannot be found.	Contact Zerto support.

Alarm in vCenter Server [VraTargetVolume](#)

VRA0010

Alert Name Recovery disks turned off

Alert Category VRAs

Severity Error

Message Displayed Recovery disks of virtual machine {vm_name} are inaccessible.

Description After a recovery operation the recovery disks for the recovered virtual machine cannot be accessed because the virtual machine is not powered on.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks cannot be accessed.	Power on the recovery VM.

Alarm in vCenter Server [VraTargetVolume](#)

VRA0011

Alert Name Recovery disk inaccessible

Alert Category VRAs

Severity Error

Message Displayed Recovery disk {disk_name} connected to virtual machine {vm_name} is inaccessible.

Description After a recovery operation the recovery disks for the recovered virtual machine cannot be accessed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks cannot be accessed.	Check that the storage is OK.
	Contact Zerto support.

Alarm in vCenter Server [VraTargetVolume](#)

VRA0012

Alert Name Cannot write to recovery disk

Alert Category VRAs

Severity Error

Message Displayed Cannot write to recovery disk {disk_name} of virtual machine {vm_name} because datastore is almost full.

Description The datastore for the virtual machines in the recovery site is almost full and no writes can be committed to it for the specified virtual machine.

This alert is triggered when the datastore space for the recovery disk for the specified virtual machine falls below 30GB or 15%, whichever is smaller.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks cannot be updated.	Increase the size of the datastore.

Alarm in vCenter Server [VraTargetVolume](#)

VRA0013

Alert Name I/O error to recovery disk

Alert Category VRAs

Severity Error

Message Displayed IO error to recovery disk {disk_name} of virtual machine {vm_name}.

Description There are IO errors generated when writing to the recovered virtual machine recovery disks.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks cannot be updated.	Check the datastore that it is OK.
	Check for IO problems.

Alarm in vCenter Server [VraTargetVolume](#)

VRA0014

Alert Name Cloned disks turned off

Alert Category VRAs

Severity Error

Message Displayed Recovery disks of cloned virtual machine {vm_name} are inaccessible.

Description The cloned virtual machine is not powered on and the disks for this machine cannot be updated by the VRA.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The cloned virtual machine is powered off.	Power on the cloned virtual machine.

Alarm in vCenter Server [VraCloneVolume](#)

VRA0015

Alert Name Cloned disk inaccessible

Alert Category VRAs

Severity Error

Message Displayed Clone disk {disk_name} connected to virtual machine {vm_name} is inaccessible.

Description The disks of the cloned virtual machine are inaccessible.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks for the clone cannot be accessed.	Check the datastore that it is accessible.
	Contact Zerto support.

Alarm in vCenter Server [VraCloneVolume](#)

VRA0016

Alert Name Datastore for clone disk is full

Alert Category VRAs

Severity Error

Message Displayed Cannot write to clone disk {disk_name} of virtual machine {vm_name} because datastore is almost full.

Description The disks of the cloned virtual machine are on a datastore that is nearly full, preventing the cloned disks from being updated.

This alert is triggered when the datastore space for the cloned virtual machine falls below 30GB or 15%, whichever is smaller.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks for the clone cannot be updated because the datastore for these disks is almost full.	Increase the datastore size.

Alarm in vCenter Server [VraCloneVolume](#)

VRA0017

Alert Name I/O error to clone

Alert Category VRAs

Severity Error

Message Displayed IO error to clone disk {disk_name} of virtual machine {vm_name}.

Description There are IO errors generated when writing to the cloned virtual machine recovery disks.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Recovery disks cannot be updated.	Check the datastore that it is OK.
	Check for IO problems.

Alarm in vCenter Server [VraCloneVolume](#)

VRA0018

Alert Name Protected disk and VM missing

Alert Category VRAs

Severity Error

Message Displayed Protected volume and its virtual machine are missing.

Description A protected virtual machine in the VPG was removed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The protected virtual machine was removed.	Nothing to do. With time the VPG status will be resolved.

Alarm in vCenter Server [VraProtectedVolume](#)

VRA0019

Alert Name Protected disk missing

Alert Category VRAs

Severity Warning

Message Displayed Protected volume on virtual machine {vm_name} is missing.

Description A protected virtual machine volume was removed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The protected virtual machine volume was removed.	Wait and the VPG status will be resolved.

Alarm in vCenter Server [VraProtectedVolume](#)

VRA0020

Alert Name VM powered off

Alert Category VRAs

Severity Error

Message Displayed VM {vm_name} is shut down and cannot be synced.

Description A protected virtual machine in the VPG is powered off and synchronization of this virtual machine with the recovery site cannot continue. This affects the whole VPG as the synchronization for the whole VPG is halted.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The protected virtual machine is powered off.	Power on the virtual machine.

Alarm in vCenter Server [VraProtectedVolume](#)

VRA0021

Alert Name VM disk inaccessible

Alert Category VRAs

Severity Error

Message Displayed VM {vm_name} disk {disk_name} cannot be synced because it is inaccessible.

Description A virtual machine disk cannot be accessed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A virtual machine disk cannot be accessed.	Check the datastore that it is OK.
	Check for IO problems.

Alarm in vCenter Server [VraProtectedVolume](#)

VRA0022

Alert Name VM disk incompatible

Alert Category VRAs

Severity Error

Message Displayed VM {vm_name} disk {disk_name} was associated with a different solution that is not supported by Zerto Virtual Replication.

Description A protected virtual machine has had a disk added that is not supported by Zerto Virtual Replication, resulting in the VPG not being protected.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A protected virtual machine disk is not supported by Zerto Virtual Replication.	Remove the disk.

Alarm in vCenter Server [VraProtectedVolume](#)

VRA0023

Alert Name VRA cannot be registered.

Alert Category VRAs

Severity Error

Message Displayed VRA cannot be registered to host {host_name}. Host component failed to load. {host_component}.

Or: Zerto Virtual Manager cannot reload host component on this ESX version.

Description A problem is preventing the VRA from being installed on the host.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Problems with VRA installation.	Contact Zerto support.

Alarm in vCenter Server [VRARegistrationFailed](#)

VRA0024

Alert Name VRA removed

Alert Category VRAs

Severity Error

Message Displayed {vra_name} on host {host_name} was deleted from the hypervisor manager. Affected VPGs are {VPG_names}.

Description A VRA or shadow VRA was removed even though it had recovery disks that it was managing, creating a ghost VRA.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A VRA was removed.	Remove and then recreate the VPGs, keeping the recovery disks when removing to use as preseeded disks when recreating the VPGs. Uninstall the VRA via the Zerto User Interface.

Alarm in vCenter Server [GhostVm](#)

VRA0025

Alert Name I/O synchronization

Alert Category VRAs

Severity Error

Message Displayed VM {vm_name} disk {disk_name} cannot be synced because there are IO errors.

Description A virtual machine disk cannot be synced because of one of its disks.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A virtual machine disk has IO errors.	Check the datastore that it is OK. Check for IO problems.

Alarm in vCenter Server [VraProtectedVolume](#)

VRA0026

Alert Name Recovery disk removed

Alert Category VRAs

Severity Error

Message Displayed {Recovery_disk} of virtual machine {protected_virtual_machine_name} in VPG {VPG_name} on host {host_name} was deleted from {storage_or_datastore}.

Description A recovery disk attached to a virtual machine in a VPG has been removed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A recovery disk was removed.	Delete the VPG and recreate it to restart the protection of the virtual machine.

Alarm in vCenter Server [GhostMirrorVolume](#)

VRA0027

Alert Name Journal volume removed

Alert Category VRAs

Severity Error

Message Displayed {Journal_volume} of virtual machine {protected_virtual_machine_name} in VPG {VPG_name} on host {host_name} was deleted from {storage_or_datastore}.

Description A journal volume attached to a virtual machine in a VPG has been removed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A journal volume was removed.	You can ignore this message. If the journal grows to approximately 80% of the provisioned journal size or less than 6GB remains free, a new volume is added to increase the journal size. When the amount of the journal used is approximately 50% of the provisioned journal size, the biggest unused journal volume from the added volumes is marked for removal. This volume is then removed after the time equivalent to three times the amount specified for the journal history, or twenty-four hours, whichever is more if it is still not used.
	Delete the VPG and recreate it to restart the protection of the virtual machine.

Alarm in vCenter Server [GhostLogVolume](#)

VRA0028

Alert Name VRA powered off

Alert Category VRAs

Severity Error/Warning

Message Displayed VRA on host {host_name} is powered off.

Description An error is issued when a VRA on a host that has protected virtual machines, or that is used to recover virtual machines, is powered off. A warning is issued when a VRA on a host that does not have protected virtual machines, or that is not used to recover virtual machines, is powered off.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VRA is powered off,	Power the VRA on.

Alarm in vCenter Server [VraPoweredOff](#)

VRA0029

Alert Name VRA memory low

Alert Category VRAs

Severity Warning

Message Displayed VRA on host {host_name} does not have enough resources (hosts 4.x) or reserved memory (hosts 5.x).

Description On ESX/ESXi 4.x: The VRA does not have enough resources.

On ESXi 5.x: The VRA does not have enough reserved memory.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
On VMware ESX/ESXi 4.x hosts: The VRA does not have enough resources.	Either vMotion some of the protected VMs to another host or expect more frequent bitmap syncs.
On VMware ESXi 5.x or Microsoft Hyper-V hosts: The VRA does not have enough reserved memory.	Check that all the VRA memory is reserved.

Alarm in vCenter Server [VraBallooning](#)

VRA0030

Alert Name Journal size mismatch

Alert Category VRAs

Severity Warning

Message Displayed There is a mismatch in journal size configuration of VM {vm_name} due to a failure in a previous update. The current configured size is {x}GB. Change it to {y}GB.

Description A previous configuration update of the journal for a specific virtual machine in the VPG failed. You need to update the journal size in the VPG for this virtual machine.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Configuration mismatch in the VPG for the virtual machine.	Edit the VPG and change the journal size hard limit for the virtual machine.

VRA0032

Alert Name Local VRA version out-of-date

Alert Category VRAs

Severity Warning

Message Displayed At least one VRA has not been updated to the latest version.

Description A newer version of the VRAs is available. At least one VRA on the (local) site has not been upgraded to this newer version.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VRA's version on the local site is an old version, and a newer version is available.	Upgrade the VRAs on the local site to the new version.

VRA0033

Alert Name Peer VRA out-of-date

Alert Category VRAs

Severity Warning

Message Displayed At least one peer site VRA has not been updated to the latest version.

Description A newer version of VRA is available. One or more of the peer sites VRAs have not been upgraded to this newer version.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A VRA on the peer site is an old version, and a newer version is available.	Upgrade the VRA on the peer site to the new version.

VRA0035

DEPRECATED

Alert Name VRA reconciliation

Alert Category VRAs

Severity Warning

Message Displayed VRAs reconciliation in progress.

Description The VRAs in the site are being checked that all are fully synchronized with the protected site.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
VRA reconciliation is in progress.	No action required.

Alarm in vCenter Server [VRAsReconciliation](#).

VRA0036

DEPRECATED

VRA0037

Alert Name Local MAC Address Conflict

Alert Category VRAs

Severity Error

Message Displayed Local {entity} MAC Address Conflict between {site1} and {site2}.

Description A VRA or Zerto Cloud Connector has the same MAC address as the specified entity.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A VRA or shadow VRA has the same MAC address as the specified entity.	Change the MAC address of the entity. To change the MAC address registered to an interface on a VRA, it is necessary to replace the NIC configured on the VRA: <ol style="list-style-type: none">1. Shut down the relevant VRA.2. Open <code>Edit Settings</code> for the VRA virtual machine in the vSphere Client console.3. Remove the listed NIC and save the settings.4. Open <code>Edit Settings</code> for the VRA virtual machine and add a new NIC and save the settings.5. Power on the VRA.

Alarm in vCenter Server [DuplicateMacAddress](#)

VRA0038

Alert Name MAC Address Conflict

Alert Category VRAs

Severity Error

Message Displayed Local<-->Remote {entity} MAC Address Conflict between {vm1_name} and {vm2_name} from site {site_name}.

Description There is a MAC conflict between the entity and VRAs or Zerto Cloud Connectors from different sites.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A VRA or shadow VRA has the same MAC address as the specified entity.	<p>Change the MAC address of the entity. To change the MAC address registered to an interface on a VRA, it is necessary to replace the NIC configured on the VRA:</p> <ol style="list-style-type: none"> 1. Shut down the relevant VRA. 2. Open Edit Settings for the VRA virtual machine in the vSphere Client console. 3. Remove the listed NIC and save the settings. 4. Open Edit Settings for the VRA virtual machine and add a new NIC and save the settings. 5. Power on the VRA.

Alarm in vCenter Server [DuplicateMacAddress](#)

VRA0039

Alert Name Journal reached configured limit

Alert Category VRAs

Severity Error

Message Displayed The {journal} journal for VM {vm_name} in VPG {vpg_name} has reached its configured limit of {x}. Older checkpoints might be removed and the journal history might be reduced to make space for new data.

Description A journal size hard limit is configured and the size of the journal has reached this limit. Older checkpoints in the journal might be removed to enable adding new checkpoints reducing the history saved in the journal.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Journal size has increased to the configured hard limit.	Increase the journal size hard limit: Edit the VPG and change the journal size hard limit for each virtual machine in the VPG (changing the hard limit at the VPG level only affects new virtual machines added to the VPG and not existing virtual machines).

For KBs associated with this Alert, click [here](#).

Alarm in vCenter Server [JournalLimitReached](#)

VRA0040

Alert Name Journal space low

Alert Category VRAs

Severity Warning

Message Displayed The {journal} journal for VM {vm_name} in VPG {vpg_name} has reached {x}.

Description A journal size hard limit is configured and the size of the journal has reached this limit. Older checkpoints in the journal might be removed to enable adding new checkpoints reducing the history saved in the journal.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Journal size has increased to the configured hard limit.	Increase the journal size hard limit: Edit the VPG and change the journal size hard limit for each virtual machine in the VPG (changing the hard limit at the VPG level only affects new virtual machines added to the VPG and not existing virtual machines).

For KBs associated with this Alert, click [here](#).

Alarm in vCenter Server [JournalLimitReached](#)

VRA0049

Alert Name Host rollback failed

Alert Category VRAs

Severity Error

Message Displayed Host {host_name} rollback failed. Error is: {error}.

Description An operation required rolling back failed, for example if the installation of a VRA on the host failed and rolling back to the pre-installation state is performed.

Possible causes include a disconnection between the Zerto Virtual Managers on both sites or between a Zerto Virtual Manager and a VRA.

This alert occurs a rollback of a failed operation on a host (such as installing or upgrading a VRA) fails. This can be either due to an internal bug or due to external factors preventing the rollback (for example, an inability to connect to the hypervisor manager, such as VMware vCenter Server and Microsoft SCVMM, or to a VRA).

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A disconnection between the Zerto Virtual Manager and the hypervisor manager, such as VMware vCenter Server and Microsoft SCVMM,.	Check the connection between the Zerto Virtual Manager and the hypervisor manager.
A disconnection between the Zerto Virtual Managers on both the protected and recovery sites.	Check the connection between the Zerto Virtual Managers.
A disconnection between the Zerto Virtual Manager and a VRA active in the rollback.	Check the connection to the VRAs. Contact Zerto support.

Alarm in vCenter Server [UndoRollbackFailed](#)

VRA0050

Alert Name Wrong host password

Alert Category VRAs

Severity Warning

Message Displayed Wrong password to host {host_name}.

Description The password the VRA uses to access the ESXi host has been changed and the VRA can no longer access the host.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The VRA cannot access the host ESXi.	Change the password used by the VRA to access the host in the Zerto User Interface.

Alarm in vCenter Server [HostPasswordChanged](#)

VRA0051

DEPRECATED

VRA0052

Alert Name Disk visible but not recognized

Alert Category VRAs

Severity Warning

Message Displayed Disk {disk_name} on VRA {recovery_VRA_virtual_machine_name} on host {host_name} is unknown.

Description Zerto Virtual Manager sees a disk on a VRA that it does not recognize.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A disk was added.	Remove the disk.

Alarm in vCenter Server [GhostUnknownVolume](#)

VRA0053

Alert Name System disk removed

Alert Category VRAs

Severity Error

Message Displayed Disk {disk_name} on VRA {recovery_VRA_virtual_machine_name} on host {host_name} cannot be found.

Description Zerto Virtual Manager does not find a system disk on VRA {recovery_VRA_virtual_machine_name} on host {host_name}.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A system disk was removed.	Reinstall the VRA.

Alarm in vCenter Server [GhostSystemDisk](#)

VRA0054

Alert Name VRA journal alert in public cloud

Alert Category VRAs

Severity Error

Message Displayed There are errors in the log volume files. If persists recreate VPG.

Description The VRA is unable to access the journal in the cloud storage.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The error could have happened for several reasons, such as objects that were deleted or because the access to the storage is unavailable.	Try to recreate the VPG or contact support.

VRA0055

Alert Name VRA target volume alert in public cloud

Category VRAs

Severity Error

Message Displayed There are errors in the target volume files. If persists recreated VPG.

Description The VRA is unable to access the target disks in the cloud storage.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The error could have happened for several reasons, such as objects that were deleted or because the access to the target disk is unavailable.	Try to recreate the VPG or contact support.

VRA0056

Alert Name VRA is shutting down

Alert Category VRAs

Severity Warning

Message Displayed VRA on host {0} is shutting down due to host maintenance.

Description The VRA on the host will wait for the protected virtual machines to be vMotioned or up to 10 minutes, whichever occurs first, before shutting down automatically, to enable host maintenance.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
VRA is shutting down due to host maintenance.	No action required.

Zerto Cloud Appliance Alerts

Zerto Cloud Appliance (ZCA) alerts are triggered when there is a problem with the ZCA recovery site.

[ZCA0001](#)

[ZCA0002](#)

[ZCA0003](#)

ZCA0001

Alert Name Storage removed

Alert Category Public Cloud

Severity Error

Message Displayed The Zerto storage cannot be found. Re-install the Zerto Cloud Appliance (ZCA).

Description The storage used for the replicated data managed by the VRA in ZCA is not found.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The data replicated from the protected site is saved in a ZCA storage which cannot be found.	Reinstall the Zerto Cloud Appliance (ZCA).

Alarm in vCenter Server [PublicCloudStorageRemoved](#)

ZCA0002

Alert Name Quota of instances number exceeded

Alert Category Public Cloud

Severity Warning

Message Displayed The maximum number of instances per instance type {0} was reached. To increase the quota per instance type, in order to improve RTOs, please contact AWS support. For more information, see Zerto documentation.

Description The maximum number of instances per {instance type} was reached. Any additional instance creation will be queued, potentially increasing the RTO. To increase change the maximum allowed instances of type {instance type}, contact AWS support.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The maximum number of instances per instance type was reached.	The maximum number of instances per instance type needs to be increased. Contact AWS support.

ZCA0003

Alert Name Zerto AWS Snapshot Manager not reachable

Alert Category VPG

Severity Error

Message Displayed Zerto AWS Snapshot Manager is not reachable (<IP>). Please contact Zerto support.

Description Could not connect to zASA and configure it. zASA state is unknown.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
<ul style="list-style-type: none"> ■ zASA instance or service is down (instance creation is in-progress) ■ zASA instance is powered off ■ zASA internal error 	<ul style="list-style-type: none"> ■ Verify that the zASA instance is up and running. ■ Once a new VPG is created, a new zASA instance is created automatically again. ■ Terminate zASA and restart the ZVM.

Zerto Cloud Connector Alerts

Zerto Cloud connector alerts are triggered when there is a problem with a Zerto Cloud connector used by a Cloud Service Provider servicing a customer.

[ZCC0001](#)

[ZCC0002](#)

[ZCC0003](#)

ZCC0001

Alert Name Zerto Cloud Connector removed

Alert Category Zerto Cloud Connectors

Severity Error

Message Displayed Zerto Cloud connector for customer {zorg_name}, with cloud IpSettings {ip} must be redeployed.

Description When an event occurs, for example the host machine crashes or the cloud connector is accidentally deleted, the cloud connector is displayed as a ghost Cloud Connector.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The Zerto Cloud Connector is displayed as a ghost cloud connector	Redeploy the cloud connector with the original settings.

Alarm in vCenter Server [GhostCloudConnector](#)

ZCC0002

Alert Name Zerto Cloud Connector powered off

Alert Category Zerto Cloud Connectors

Severity Error

Message Displayed The Zerto Cloud Connector for {zcc_name} is powered off.

Possible causes include hypervisor manager, such as VMware vCenter Server and Microsoft SCVMM, problems, disk space issues, network issues, wrong configuration

A ZCC installation failed. The error for that failure should have more information. This can happen due to many reasons; VC problems, out of disk space, network issues, wrong configuration, etc.

Description A ZCC installation failed. The error for that failure should have more information. This can happen due to many reasons, such as hypervisor manager, VMware vCenter Server and Microsoft SCVMM, problems, out of disk space, etc.

Note: When a Zerto Cloud Connector is powered off, the site paired to this Zerto Cloud Connector will be disconnected. It is recommended to vMotion the Zerto Cloud Connector to a similar host to avoid this disconnection.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The Zerto Cloud Connector is powered off.	Try powering the Zerto Cloud Connector on.
Not enough disk space for the Zerto Cloud Connector.	Check the available storage on the datastore specified for the Zerto Cloud Connector.

Alarm in vCenter Server [CloudConnector](#)

ZCC0003

Alert Name Orphaned Zerto Cloud Connector

Alert Category Zerto Cloud Connectors

Severity Warning

Message Displayed An orphaned Zerto Cloud Connector for {zcc_name} was installed.

Description The status of the Zerto Cloud Connector is orphaned, for example when one of the specified networks is invalid or inaccessible or that the ports to access the connector are blocked in the Zerto Virtual Manager.

Note: The recovery host must have the same access to the networks that are used by the Zerto Cloud Connector, including all appropriate VLAN tagging on the vSwitch or VDS and required trunking at the physical layer.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Access to the Zerto Cloud Connector is blocked in the Zerto Virtual Manager machine.	Check the access permissions to the machine running the Zerto Virtual Manager.
An invalid configuration was specified for the Zerto Cloud Connector.	Remove the Zerto Cloud Connector and reinstall a new Zerto Cloud Connector with the correct configuration.
No default gateway is configured on this NIC. Note that when deploying a Zerto Cloud Connector, only a single default gateway is used by the connector, and is applied to the Organization Network NIC settings.	Static route groups can be configured and assigned to the Zerto Cloud Connector.
The IP configuration for this NIC is not valid for the environment.	Verify that ping and telnet over TCP port 22 from the cloud Zerto Virtual Manager to the Cloud Network NIC are successful.
The vSwitch or vDS assigned to the Cloud Network NIC settings is not configured correctly.	
The uplink assigned to the vSwitch or DVS assigned to the Cloud Network NIC settings does not have proper trunking configured on the physical switch it is attached to.	Verify that network layer 2 elements, such as ARP tables, on network equipment between the Zerto Cloud Connector and the Zerto Virtual Manager are properly configured and up to date.

Alarm in vCenter Server [CloudConnector](#)

Zerto Cloud Manager Alerts

Zerto Cloud Manager alerts are triggered when there is a problem with a Zerto Cloud Manager.

[ZCM0001](#)

[ZCM0002](#)

ZCM0001

Alert Name No connection to Zerto Virtual Manager

Alert Category Zerto Cloud Manager

Severity Error

Message Displayed Zerto Cloud Manager could not connect to Zerto Virtual Manager (hostip: {hostip}, port:{port}).

Description The Zerto Cloud Manager could not connect to the Zerto Virtual Manager using the specified IP and port.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
vIP or port specified are not correct for the Zerto Virtual Manager.	Check the IP and port.
The Zerto Virtual Manager is not running.	Check that the Zerto Virtual Manager service is running.
The Zerto Cloud Manager is blocked from accessing the Zerto Virtual Manager machine.	Check the access permissions to the machine running the Zerto Virtual Manager.

ZCM0002

Alert Name Zerto Cloud Manager not supported

Alert Category Licensing

Severity Error

Message Displayed Zerto Cloud Manager is not supported with the current license. Check your license and contact your account manager.

Description The Zerto Cloud Manager is not supported with the current license. Check your license and contact your account manager.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The license which is used on the Zerto Virtual Replication, and which is attached to Zerto Cloud Manager, does not support Zerto Cloud Manager.	Check your license and contact your account manager.

Zerto Virtual Manager Alerts

Zerto Virtual Manager alerts are triggered when there is a problem with a Zerto Virtual Manager.

[ZVM0001](#)

[ZVM0002](#)

[ZVM0003](#)

[ZVM0004](#)

[ZVM0005](#)

[ZVM0006](#)

- ZVM0007
- ZVM0008
- ZVM0009
- ZVM0010
- ZVM0011
- ZVM0012
- ZVM0013
- ZVM0014
- ZVM0015
- ZVM0016
- ZVM0017
- ZVM0019
- ZVM0020
- ZVM0021

ZVM0001

Alert Name No connection to hypervisor manager, such as VMware vCenter Server and Microsoft SCVMM, or to public cloud.

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed The connection between site {site1} and the hypervisor manager {hv} at {IP} is down.

Or:

The cloud access parameters from site {site1} are no longer valid.

Description The Zerto Virtual Manager running on the specified site cannot connect to either the hypervisor manager, such as VMware vCenter Server or Microsoft SCVMM, or to cloud services (AWS or Microsoft Azure).

If the disconnection is on the protected site, the protection of the VPGs is compromised. If the status of the VPG was Protecting before the alert, then the VPG should be recoverable to the last checkpoint that was written to the journal. If the VPG was syncing, excluding a Bitmap Sync, or if a virtual machine was being vMotioned, then the corresponding VPG is not recoverable.

If the disconnection is on the recovery site, the recovery of the VPGs is compromised.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The hypervisor manager is not running.	Check the hypervisor manager
Authentication failed between the Zerto Virtual Manager and the hypervisor manager or cloud server.	Check that the Zerto Virtual Manager has the correct credentials to access the hypervisor manager or the cloud. The credentials can be reset in the <i>Site Information</i> tab in the <i>Site Settings</i> dialog.

Alarm in vCenter Server [DisconnectedVCenter](#)

ZVM0002

Alert Name No connection to VRA

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed Zerto Virtual Manager is not connected to VRA with IP {IP} on host {IP}.

Description The Zerto Virtual Manager has lost communication with a VRA. This means that no new checkpoints can be written to the journals of any protected virtual machines whose recovery is managed by this VRA.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Zerto Virtual Replication is being updated.	Wait for the upgrade to complete and the communication with the VRA to be re-established.
The network to access the VRA has a problem.	Check the network.
The VRA is down.	Restart the VRA.
The Zerto Virtual Manager service is not running.	Check if the Zerto Virtual Manager service is running.

For KBs associated with this Alert, click [here](#).

Alarm in vCenter Server [ZvmToVraConnection](#)

ZVM0003

Alert Name No connection to site

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed The Zerto Virtual Manager is not connected to site {site1}.

Description The connection between the local Zerto Virtual Manager and the remote Zerto Virtual Manager is down.

Possible causes include network problems or the Zerto Virtual Manager is down. This error is also shown briefly while the sites are syncing following a failed operation.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The two sites are syncing after a failed recovery operation.	If a recovery operation failed, wait a few minutes for the connection to be re-established.
The network to access the peer site has a problems.	Check on the peer site network.
The Zerto Virtual Manager service is not running on the peer site.	Check on the peer site if the Zerto Virtual Manager is running.

Alarm in vCenter Server [ZvmToZvmConnection](#)

ZVM0004

Alert Name Peer ZVM version out-of-date

Alert Category Zerto Virtual Manager

Severity Warning

Message Displayed At least one peer site has not been upgraded to version {v1}.

Description A newer version of the Zerto Virtual Replication is available. One or more of the peer site's Zerto Virtual Replication has not been upgraded to this newer version.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
A ZVM version on the peer site is an old version, and a newer version is available. This alert is relevant only when the updated version is a major or minor version.	Upgrade the ZVM version on the peer sites to the new versions.

Alarm in vCenter Server [ZvmToZvmConnection](#)

ZVM0005

Alert Name Zerto Virtual Manager space low

Alert Category Zerto Virtual Manager

Severity Warning

Message Displayed Free space on drive {drive} is below the threshold of {x}GB.

Description The drive where the Zerto Virtual Manager is installed is too full and some space needs to be freed up.
This alert is triggered when the free space used by the Zerto Virtual Manager falls below 2GB.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Low on free space for drive where the Zerto Virtual Manager is installed.	Free up some space on the drive or increase the size.

Alarm in vCenter Server [LowDiskFreeSpace](#)

ZVM0006

Alert Name Upgrade available

Alert Category Zerto Virtual Manager

Severity Warning

Message Displayed A new version ({version}) is available for upgrade.

Description One of the sites is running a later version.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The protected and recovery sites are running different versions of Zerto Virtual Replication.	Upgrade Zerto Virtual Replication, including any VRAs that can be upgraded.

Before upgrading, review the following documents for **compatibility**:

- [Product Version Lifecycle Matrix for Zerto Virtual Replication](#)
- [Zerto Virtual Replication Interoperability Matrix](#)
- [Zerto Scale and Benchmarking Guidelines](#)

Then, review the following considerations:

- Zerto recommends upgrading to the **latest version** of Zerto Virtual Replication that supports the environment you are using. See the [Zerto Virtual Replication Interoperability Matrix](#) for the list of environments supported by this version of Zerto Virtual Replication.
- The order you upgrade the sites, protected or recovery, is not relevant as long as **paired** sites remain only **one version apart**, that is, only one version higher or lower.
- When upgrading from versions prior to Zerto Virtual Replication 6.0U2, changing the Journal Size Hard Limit requires restarting the VRAs.
- During an upgrade from v6.0x to v6.5, all back up and repositories configurations are deleted.

Note: Upgrade releases are considered to be upgrades of the same version. Releases 6.0, 6.0U1, etc., are the *same* version.

- The following table shows what version you can upgrade to, based on the **current version** running at the site:

CURRENT VERSION:	CAN UPGRADE TO:
5.0, 5.0Ux	5.5Ux
5.5, 5.5Ux	6.0Ux
6.0, 6.0Ux	6.5Ux

- You do **not** need to move workloads during an upgrade.
- When upgrading a protected vSphere or Hyper-V environment, after the upgrade, a bitmap sync is performed for VPGs on the protected VRA.
- In a Hyper-V environment, SCVMM 2016 is supported on ZVR installations from version 6.0x.
- Zerto Cloud Appliance is supported for Azure and AWS (ZCA) on:
 - Windows 2016
 - Windows 2012R2

Alarm in vCenter Server [NewVersionAvailable](#)

ZVM0007

Alert Name Cannot upgrade

Alert Category Zerto Virtual Manager

Severity Warning

Message Displayed A new version ({version}) is available for upgrade, but the current site cannot upgrade to it. Possible causes include you have an old peer which the new version will not be able to communicate with or because you have a VRA running an older version which the new version will not be able to communicate with.

Description You can only upgrade Zerto Virtual Replication to one version higher with full protection maintained. One of the sites is already running a version one version higher but an upgrade to this is also available.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The protected and recovery sites are running different versions of Zerto Virtual Replication. The peer site is running Zerto Virtual Replication one version higher than the local site and there is an upgrade available for this version, but the local site cannot upgrade to it directly, because it is two versions higher.	Upgrade Zerto Virtual Replication, first to the same version as the peer site and then upgrade both sites to the latest version.
The protected and recovery sites are running different versions of VRAs.	Upgrade any VRAs that can be upgraded.

Before upgrading, review the following documents for **compatibility**:

- [Product Version Lifecycle Matrix for Zerto Virtual Replication](#)
- [Zerto Virtual Replication Interoperability Matrix](#)
- [Zerto Scale and Benchmarking Guidelines](#)

Then, review the following considerations:

- Zerto recommends upgrading to the **latest version** of Zerto Virtual Replication that supports the environment you are using. See the [Zerto Virtual Replication Interoperability Matrix](#) for the list of environments supported by this version of Zerto Virtual Replication.
- The order you upgrade the sites, protected or recovery, is not relevant as long as **paired** sites remain only **one version apart**, that is, only one version higher or lower.
- When upgrading from versions prior to Zerto Virtual Replication 6.0U2, changing the Journal Size Hard Limit requires restarting the VRAs.
- During an upgrade from v6.0x to v6.5, all back up and repositories configurations are deleted.

Note: Upgrade releases are considered to be upgrades of the same version. Releases 6.0, 6.0U1, etc., are the *same* version.

- The following table shows what version you can upgrade to, based on the **current version** running at the site:

CURRENT VERSION:	CAN UPGRADE TO:
5.0, 5.0Ux	5.5Ux
5.5, 5.5Ux	6.0Ux
6.0, 6.0Ux	6.5Ux

- You do **not** need to move workloads during an upgrade.
- When upgrading a protected vSphere or Hyper-V environment, after the upgrade, a bitmap sync is performed for VPGs on the protected VRA.
- In a Hyper-V environment, SCVMM 2016 is supported on ZVR installations from version 6.0x.
- Zerto Cloud Appliance is supported for Azure and AWS (ZCA) on:
 - Windows 2016
 - Windows 2012R2

Alarm in vCenter Server [NewVersionAvailable](#)

ZVM0008

Alert Name Version mismatch

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed

Not connected to Zerto Virtual Manager on site_name (version {v1}).

OR

The Zerto Virtual Manager is not connected to site {hostname} {sitename}. The product type of site {hostname} {sitename} is incompatible.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The two sites are running different versions of Zerto Virtual Replication that are not compatible one with the other. Any version of Zerto Virtual Replication will work with another site running the same version of Zerto Virtual Replication or one version higher or lower.	Upgrade the older version to the same version as the local version.
The paired sites are running different product types of Zerto Virtual Replication that are not compatible, one with the other.	Verify that the paired sites are running the same product type.

Before upgrading, review the following documents for **compatibility**:

- [Product Version Lifecycle Matrix for Zerto Virtual Replication](#)
- [Zerto Virtual Replication Interoperability Matrix](#)
- [Zerto Scale and Benchmarking Guidelines](#)

Then, review the following considerations:

- Zerto recommends upgrading to the **latest version** of Zerto Virtual Replication that supports the environment you are using. See the [Zerto Virtual Replication Interoperability Matrix](#) for the list of environments supported by this version of Zerto Virtual Replication.
- The order you upgrade the sites, protected or recovery, is not relevant as long as **paired** sites remain only **one version apart**, that is, only one version higher or lower.
- When upgrading from versions prior to Zerto Virtual Replication 6.0U2, changing the Journal Size Hard Limit requires restarting the VRAs.
- During an upgrade from v6.0x to v6.5, all back up and repositories configurations are deleted.

Note: Upgrade releases are considered to be upgrades of the same version. Releases 6.0, 6.0U1, etc., are the *same* version.

- The following table shows what version you can upgrade to, based on the **current version** running at the site:

CURRENT VERSION:	CAN UPGRADE TO:
5.0, 5.0Ux	5.5Ux
5.5, 5.5Ux	6.0Ux
6.0, 6.0Ux	6.5Ux

- You do **not** need to move workloads during an upgrade.
- When upgrading a protected vSphere or Hyper-V environment, after the upgrade, a bitmap sync is performed for VPGs on the protected VRA.
- In a Hyper-V environment, SCVMM 2016 is supported on ZVR installations from version 6.0x.
- Zerto Cloud Appliance is supported for Azure and AWS (ZCA) on:
 - Windows 2016
 - Windows 2012R2

Alarm in vCenter Server [PeerZvmCompatibility](#)

ZVM0009

Alert Name Internal error

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed ZVM Internal alert

Description The Zerto Virtual Manager has entered an error state.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The Zerto Virtual Manager has an internal error.	Contact Zerto support.

Alarm in vCenter Server [AssertAlert](#)

ZVM0010

Alert Name Synchronization between Zerto Virtual Managers

Alert Category Zerto Virtual Manager

Severity Warning

Message Displayed Synchronizing with site {site_name}.

Description The local site and peer site Zerto Virtual Managers are being synchronized with each other.

Note: Failovers, failover tests and clones can be performed during the synchronization. A Move operation cannot be performed.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The Zerto Virtual Managers at the two sites required to be synchronized and are currently not synchronized.	Wait for the synchronization to complete.

Alarm in vCenter Server [ZvmToZvmSync](#)

ZVM0011

Alert Name Metadata collection

Alert Category Zerto Virtual Manager

Severity Warning

Message Displayed Failed to collect metadata for {0}: {1}.

Description The Zerto Virtual Manager cannot collect metadata describing the host. The virtual machines on this host cannot be protected and protected virtual machines cannot be recovered to this host.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The Zerto Virtual Manager cannot collect the host metadata.	Contact Zerto support.

Alarm in vCenter Server [CheckHost](#)

ZVM0012

Alert Name Metadata collection

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed VM {vm_name} is unprotected: Zerto Virtual Manager cannot access the SCSI adapter.

Description The Zerto Virtual Manager cannot collect SCSI adapter information from the host for the virtual machine in the VPG.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The Zerto Virtual Manager cannot collect SCSI adapter information.	Remove the virtual machine from the VPG to enable protecting the other virtual machines in the VPG.
	Contact Zerto support.

Alarm in vCenter Server [ProtectedVmScsiMismatch](#)

ZVM0013

Alert Name Metadata collection

Alert Category Zerto Virtual Manager

Severity Warning

Message Displayed Failed to collect site metadata for host {host}.

Description The Zerto Virtual Manager cannot communicate with the host to access the details about the host.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The host is not available.	Check the host status.
The host version is not supported by Zerto Virtual Replication.	Check the host version.

Alarm in vCenter Server [CheckHost](#)

ZVM0014

Alert Name VRA/Diskbox SCSI GUID mismatch

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed SCSI adapter data for host {host} is not found.

Description The SCSI adapter identifiers retrieved from SCVMM do not match the identifiers retrieved from the VM configuration on the Hyper-V host.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
There is a communication error between the host and the ZVM A change was made to the virtual machine that was not updated in the VMM server.	Refresh the VM in the SCVMM console and ensure connectivity from the host to the ZVM.

ZVM0015

Alert Name Hyper-V host state

Alert Category Zerto Virtual Manager

Severity Warning or Error: If a VRA is not installed on the host, this is a warning. If a VRA is installed on the host, this is an error.

Message Displayed

Host {host_name} is not ready. Failed to create folder at host.

Or:

Host {host_name} is not ready. Failed to upload script file to host.

Or:

Host {host_name} is not ready. Failed to check if {PS_module_name} PS Module is installed on host.

Or:

Host {host_name} is not ready. {PS_module_name} PS Module is not installed at host.

Or:

Host {host_name} is not ready. Host is not responding.

Description The Zerto Virtual Manager cannot communicate with the host so it cannot retrieve host information.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
There is a communication problem between the Hyper-V host and the Zerto Virtual Manager. (There must be communication from the Hyper-V host to the Zerto Virtual Manager.)	Check communication from the virtual machine on which Hyper-V is running to the machine on which Zerto Virtual Manager is installed by sending a ping command from the Hyper-V machine to the Zerto Virtual Manager machine.
The user under which Zerto Virtual Manager runs scripts on the Hyper-V host has insufficient permissions to create the folder \file on the host.	Check if the user on the Hyper-V host has privileges to read and write on the local host file system. It could be a <i>Run As Account</i> user or the default, which is the Hyper-V host machine user.
The Hyper-V PS module is not installed on the Hyper-V host.	Install the Hyper-V PS module on the Hyper-V host.
The version of PowerShell installed on the Hyper-V host is lower than 4.0. (Zerto Virtual Replication requires version 4.0 or higher.)	Check which version of Powershell is installed. If it is lower than 4.0, install version 4.0 or higher.
There is a communication problem between the Hyper-V host and SCVMM.	Check the Hyper-V host status and its communication status in SCVMM.

ZVM0016

Alert Name Failed to load tweaks

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed Error occurred during loading zvm tweaks file {tweaks_file_name}. Service may not work as expected. Contact Zerto support.

Description A problem occurred during loading and parsing the ZVM tweaks file. Unrecognised tweaks will not be applied.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
ZVM tweaks file contains tweaks with incorrect tweak name or value.	If you have updated the Zvm tweaks file, check that you hadn't made a mistake specifying tweak name and value.

ZVM0017

Alert Name Protected VM with unknown OS

Alert Category Zerto Virtual Manager

Severity Warning

Message Displayed The OS on {0} is set to 'Other' or 'None'. To continue, please select a new OS type in SCVMM.

Description The VM's OS type is not specified in SCVMM.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
The OS type is not specified in SCVMM.	Add the OS type to the SCVMM

ZVM0019

Alert Name Agent disconnected / Failed to open channel

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed

Agent on host {n} is disconnected. Contact Zerto support.

Or

Agent on host {n} is disconnected. {reason}

Or

Failed to open a channel for the agent on host {0}. Please check the SCVMM connection, or check the reason for the job failure.

Or

Failed to install the agent on host:{0}. Failed rename agent executable, after unzip. Package might be corrupted. Contact Zerto support.

POSSIBLE CAUSES	POSSIBLE RESOLUTIONS
Agent channel disconnected with a pull request timeout.	Contact Zerto support.
Agent disconnected.	Check the SCVMM connection or the reason for the job failure.
Agent failed to open channel.	
Agent not accepted, failed to open channel.	
Agent executable is missing due to corrupt package.	

ZVM0020

Alert Name Agent installation failed

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed

Failed to install the agent on host: {0}. {Reason}

Or

Failed to install the agent on host:{0}. Failed to create the install directory {1}.

Or

Failed to install the agent on host: {0}. The Hyper-V agent install package with name {1}, is not found.

Or

Failed to install the agent on host:{0}. VRA is not installed. Install the VRA, then retry.

Or

Failed to install the agent on host:{0}. An error occur when extracting the install package. Check the SCVMM user permissions on the host.

Or

Failed to install the agent on host:{0}. Failed to upload the install package to the host. Check the connection between the host and ZVM ({1}).

POSSIBLE CAUSES	POSSIBLE RESOLUTIONS
Agent installation failed on host.	Check the reason for the SCVMM job failure.
Agent installation failed due to failure to create installation directory.	
Agent installation failed due missing Hyper-V agent package.	
Agent installation failed due to policy issue.	
Agent installation failed due to failure to extract the installation package.	Check the SCVMM user permissions on the host.
Agent installation failed due to failure to upload the installation package.	Check the connection between the host and the ZVM.

ZVM0021

Alert Name VRA-H powered off

Alert Category Zerto Virtual Manager

Severity Error

Message Displayed Diskbox on host {0} is powered off.

Description The diskbox located on the host is powered off.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
Disk boxes can be powered off for a number of reasons: for maintenance, following a crash, as a result of a user's mistake, etc.	Power on the diskbox.

File Level Restore Alerts

File level restore alerts are triggered when there is a problem performing a file or folder level restore.

FLR0001

FLR0001

Alert Name Files cannot be restored

Alert Category File Level Restore

Severity Error

Message Displayed The file restore component is not available.

Description The file level restore component is not available or cannot be found so it is not possible to recover files.

POSSIBLE CAUSE	POSSIBLE RESOLUTION
There was a problem installing the file level restore component.	Contact Zerto support.
There is a problem running the file level restore component.	

Alarm in vCenter Server [FlrZeusDriverNotAvailable](#)

CHAPTER 2: ZERTO VIRTUAL REPLICATION ALARMS IN VMWARE VSPHERE

Alarms in VMware vSphere are notifications that occur in response to selected events, conditions, and states that occur with objects in the inventory. You can use the vSphere Client to create and modify alarms.

All of the Zerto Virtual Replication alarms defined to vSphere are prefixed with **com.zerto.event**.

During an installation of Zerto Virtual Replication, the vCenter Server specified as part of the installation is accessed, and the Zerto Virtual Replication alarms are defined in the vCenter Server.

The following topics are described in this section:

- [“Alarms and Alerts”, below](#)
- [“Customized Alarms After an Upgrade”, on page 69](#)
- [“Alarms in VMware vSphere”, on page 69](#)

Alarms and Alerts

Zerto Virtual Replication is configured with a set of predefined alarms that monitor the software, including problems with resources such as journals, recovery storage, and connectivity between Zerto Virtual Replication. When an ongoing problem is identified by Zerto Virtual Replication, an alert is issued. This alert also results in the appropriate Zerto Virtual Replication alarm being triggered in the vCenter Server. The same vCenter Server alarm can be triggered by more than one Zerto Virtual Replication alert.

Note: Disabling an alarm in vCenter Server will not stop Zerto Virtual Replication alert being fired.

Any Zerto Virtual Replication alarm will only be turned off when all instances of the alert are turned off. For example, if you pause two VPGs, a vCenter Server alarm is raised. If you resume just a single VPG the alarm remains on. Only when no VPGs are paused is the alarm stopped.

For details about Zerto Virtual Replication alerts, refer to [“Zerto Virtual Replication Alerts”, on page 4](#).

Customized Alarms After an Upgrade

During an upgrade of Zerto Virtual Replication, any customization of Zerto Virtual Replication alarms is maintained during an upgrade except for the Send a notification email action which is removed.

Note: Email notifications for alarms configured in the Zerto User Interface, in the **Advanced Settings** dialog, are maintained during an upgrade.

For fuller information about alarms, refer to the relevant VMware documentation.

Alarms in VMware vSphere

COM.ZERTO.EVENT.<alarm>	DESCRIPTION IN VCENTER SERVER	EXPANDED DESCRIPTION	RELATED ZERTO VIRTUAL REPLICATION ALERTS
AssertAlert	Internal problem in Zerto Virtual Manager	An internal error has occurred.	ZVM0009
PublicCloudStorageRemoved	Trying to replicate into a cloud storage that was removed	The storage used to recover the VPG virtual machines no longer exists.	ZCA0001

COM.ZERTO.EVENT.<alarm>	DESCRIPTION IN VCENTER SERVER	EXPANDED DESCRIPTION	RELATED ZERTO VIRTUAL REPLICATION ALERTS
BacklogError	Journal history problem. The amount of history is less than it should be	A journal history problem. The amount of history is between 15% and 25% less than it should be, probably because of a synchronization that overwrote some of the checkpoints.	VPG0004, VPG0038
BacklogWarning	Journal history problem. The amount of history is less than it should be	A journal history problem. The amount of history is at least 25% less than it should be, probably because of a synchronization that overwrote some of the checkpoints.	VPG0003, VPG0037
BackupFailsConstantlyError	Scheduled offsite backup failed for the last 7 days	An offsite backup was scheduled but the initial job and retries failed for the last 7 days.	BCK0002
BackupFailsConstantlyWarning	Scheduled offsite backup failed for the last 3 days	An offsite backup was scheduled but the initial job and retries failed for the last 3 days.	BCK0001
BackupTargetDisconnected	The repository is not accessible by the VBA	The repository cannot be found.	BCK0005
BackupTargetIsNone	The repository cannot be found	The repository is not accessible by the VBA.	BCK0007
CheckHost	A host is unavailable, possibly due to incompatible version or native state	The host is not accessible. Two possible explanations are an incompatible version or native state.	ZVM0011, ZVM0013
CloudConnector	A problem with the Zerto Cloud Connector, for example, it is powered off	A problem with the Zerto Cloud Connector, for example, it is powered off. For details about Zerto Cloud Connectors, refer to <i>Zerto Virtual Replication Zerto Cloud Manager Installation</i> .	ZCC0002
CriticalCheckpoint	Critical checkpoint: Only a few minutes of checkpoints are left in the journal for the VPG	The checkpoints available in the journal are decreasing, and that there are only a few minutes worth left. This can occur due to a prolonged Bitmap Sync, or a general WAN disconnect due to storage or network issues. The replication/sync has been proactively paused so as not to lose all of the history. After the configured pause timeout expires, replication/sync will continue and checkpoints will be lost.	VPG0007
Datastore	The datastore is not accessible	The datastore is not accessible.	STR0001
DisconnectedCloudName	A disconnection to the cloud	A disconnection to cloud.	ZVM0001
DisconnectedVCenter	vCenter Server disconnection	A vCenter Server disconnection.	ZVM0001
DuplicateMacAddress	MAC Address conflict	A MAC Address conflict.	VRA0037, VRA0038
FlrZeusDriverNotAvailable			FLR0001

COM.ZERTO.EVENT.<alarm>	DESCRIPTION IN VCENTER SERVER	EXPANDED DESCRIPTION	RELATED ZERTO VIRTUAL REPLICATION ALERTS
GhostCloudConnector	A Zerto Cloud Connector was deleted, leaving a ghost cloud connector	A Zerto Cloud Connector was deleted, leaving a ghost cloud connector. For details about Zerto Cloud Connectors, refer to <i>Zerto Cloud Manager Administration Guide</i> .	ZCC0001
GhostLogVolume	A journal volume was deleted	A journal volume was deleted.	VRA0027
GhostMirrorVolume	A recovery disk was deleted	A recovery disk was deleted.	VRA0026
GhostSystemDisk	A disk on a VRA cannot be found	Zerto Virtual Manager does not find a system disk on a VRA.	VRA0053
GhostUnknownVolume	A disk on a VRA is not recognized.	Zerto Virtual Manager sees a disk on a VRA that it does not recognize.	VRA0052
GhostVm	A VRA or shadow VRA was deleted, leaving a ghost VRA	A VRA or shadow VRA was deleted, leaving a ghost VRA.	VRA0024
HostPasswordChanged	The password used by the VRA to access the host ESX/ESXi is no longer valid	The password used by the VRA to access the host ESX/ESXi is no longer valid.	VRA0050
JournalLimitReached	The journal or scratch volumes used in testing and before committing have reached the hard limit set for the journal	The journal or scratch volumes used in failover testing and moves and failovers before committing the moves or failovers have reached the hard limit set for the journal in the VPG definition.	VRA0039, VRA0040
LastTest	The VPG has not been tested or was tested a long time ago	The VPG has not been tested or was tested a long time ago.	VPG0011, VPG0012
License	There is a problem with the license	There is a problem with the license.	LIC0001, LIC0003, LIC0004, LIC0006, LIC0007, LIC0009, LIC0010, LIC0011
LowDiskFreeSpace	The disk on which the Zerto Virtual Manager is installed is low on space	The disk on which the Zerto Virtual Manager is installed is low on space.	ZVM0005
MisconfiguredSanPolicyOnCrossReplicatedWinVm	The Microsoft default SAN policy might cause some protected volumes to become offline upon recovery	The Microsoft default SAN policy might cause some protected volumes to become offline upon recovery.	VPG0043
MissingNetworksForVMsInVPG	The recovery network does not exist	The network required for the recovery operation does not exist.	VPG0042
MissingOrgVdcNetworkMapping	A network mapping for Org vDC for the VPG is missing	A network mapping for Org vDC for the VPG is missing.	VPG0025
MissingRecoveryOrgVdcNetworkMapping	A network mapping for the recovery site provider Org vDC is missing	A network mapping for the recovery site provider Org vDC is missing.	VPG0028

COM.ZERTO.EVENT.<alarm>	DESCRIPTION IN VCENTER SERVER	EXPANDED DESCRIPTION	RELATED ZERTO VIRTUAL REPLICATION ALERTS
NewVersionAvailable	The paired remote Zerto Virtual Manager is a different version that cannot work with the local Zerto Virtual Manager	A new version of Zerto Virtual Replication is available. Pairing of incompatible Zerto Virtual Managers is prevented, but upgrading a Zerto Virtual Manager to an incompatible version with a paired remote Zerto Virtual Manager is possible.	ZVM0006, ZVM0007
NoMatchingStorageProfile	Could not find matching recovery storage profile	Specific to vCD targets: A VPG is replicating to an Org vDC, and some VMs within the VPG have no recovery storage profile configured, and no enabled storage profile in the recovery site contains their recovery datastores.	VPG0018
PeerZvmCompatibility	The paired remote Zerto Virtual Manager is a different version that cannot work with the local Zerto Virtual Manager	The paired remote Zerto Virtual Manager is a different version that cannot work with the local Zerto Virtual Manager. Note: Pairing of incompatible Zerto Virtual Managers is prevented, but upgrading a Zerto Virtual Manager to an incompatible version with a paired remote Zerto Virtual Manager is possible.	ZVM0008
ProtectedVmScsiMismatch	Values collected from the hypervisor and the VM manager do not match	The Zerto Virtual Manager cannot collect SCSI adapter information from the host for the virtual machine in the VPG.	ZVM0012
ProtectedVolumeSizeChanged	For internal use only	For internal use only	—
ProtectionGroupError	The VPG has an error, for example, if a storage error occurs while recovering from a VRA crash	The VPG has an error. This only happens in rare cases, for example, if a storage error occurs while recovering from a VRA crash.	VPG0005
ProtectionGroupMissingConfiguration	The VPG has a missing configuration	The VPG has a missing configuration.	VPG0006
ProtectionGroupMissingVmName	A VPG was paused by the system because a single or multiple virtual machines were removed from the inventory.	A VPG was paused by the system because a single or multiple virtual machines were removed from the inventory.	VPG0049
ProtectionGroupPaused	The VPG protection has been paused	The VPG protection has been paused.	VPG0017
RdmWithOddNumberOfBlocks	The RDM has an odd number of blocks	The RDM has an odd number of blocks.	VPG0039
RecoveryBeforeCommit	The VPG is waiting to be committed or rolled back	The VPG is waiting to be committed or rolled back.	VPG0014
RecoveryDataStoreFull	The recovery datastore is full	The recovery datastore is full.	STR0002

COM.ZERTO.EVENT.<alarm>	DESCRIPTION IN VCENTER SERVER	EXPANDED DESCRIPTION	RELATED ZERTO VIRTUAL REPLICATION ALERTS
RecoveryDataStoreLowFreeSpace	The recovery datastore has less than xGB of free space	The recovery datastore is running out of free space.	STR0004
RecoveryDatastoresNotInStorageProfile	Missing recovery datastores in recovery storage profile	The storage profile does not include the recovery datastores.	VPG0024
RecoveryProviderVDCStorageProfileDisabled	Recovery provider vDC storage profile is disabled	The recovery provider vDC storage profile is disabled.	VPG0022
RecoveryProviderVDCStorageProfileNotFound	Recovery provider vDC storage profile is not found	The recovery provider vDC storage profile could not be found.	VPG0021
RecoveryStorageProfileDisabled	Recovery storage profile is disabled	The recovery storage profile is disabled.	VPG0019
RecoveryStorageProfileNotFound	Recovery storage profile is not found	The recovery storage profile could not be found.	VPG0020
RecoveryVcenterStorageProfileMissing	Storage profile not found in underlying vCenter Server	A storage profile was not found in the underlying vCenter Server.	VPG0018, VPG0023
ResourcePoolInsufficientError	Resource Pool does not have enough resource to support VPG	A resource Pool does not have enough resource to support VPG.	VPG0015
ResourcePoolMissingError	Target resource pool cannot be found for VPG	The recovery resource pool for the VPG can no longer be found.	VPG0016
RpoError	The recovery RPO is not being met. The current RPO is more than the target RPO	The target RPO is not being met. The current RPO is at least 25% more than the target RPO.	VPG0010
RpoWarning	The recovery RPO is not being met. The current RPO is more than the target RPO	The recovery RPO is not being met. The current RPO is between 15% and 25% more than the target RPO.	VPG0009
ServiceProfileMissing	The service profile for the VPG cannot be found	The service profile for the VPG cannot be found.	VPG0026
UndoRollbackFailed	A rollback failed	A rollback failed.	VPG0008, VRA0049
UninstalledHost	The host has no VRA installed	The host has no VRA installed.	VRA0001
UnprotectedVMsError	One or more of the virtual machines in the VPG are not protected, for example a VM was vMotioned to a host without a VRA	One or more of the virtual machines in the VPG are not protected, for example a virtual machine was vMotioned to an ESX/ESXi host without a VRA.	VPG0027
VbaDisconnected	The VBA service is not connected to the Zerto Virtual Manager	The VBA service is not connected to the Zerto Virtual Manager.	BCK0006
VCDConnector	vCloud Director connection problem	A vCloud Director connection problem.	VCD0014, VCD0015, VCD0018
VCDReflection	A problem collecting the vCloud Director metadata	There is a problem collecting the vCloud Director metadata.	VCD0001, VCD0002, VCD0003, VCD0004, VCD0005, VCD0006, VCD0007, VCD0010, VCD0016, VCD0017, VCD0020, VCD0021
VirtualMachine	For internal use only	For internal use only.	—

COM.ZERTO.EVENT.<alarm>	DESCRIPTION IN VCENTER SERVER	EXPANDED DESCRIPTION	RELATED ZERTO VIRTUAL REPLICATION ALERTS
VirtualMachineHardwareVersionMismatch	The hardware version of one or more of the protected VMs is not supported by the recovery host	The hardware version of one or more of the protected virtual machines is not supported by the recovery host.	VPG0040
VirtualMachineHasZeroSizeVolume	VM has at least one volume of size 0	The virtual machine has one or more volumes of size zero.	VPG0044
VPGOutOfZorgOnProtected	The VPG belongs to a ZORG but contains resources outside of the ZORG	The VPG has been defined as belonging to a ZORG but contains resources outside of the ZORG.	VPG0035
VPGOutOfZorgOnRecovery	The VPG belongs to a ZORG but requires resources outside of the ZORG	The VPG has been defined as belonging to a ZORG but contains resources outside of the ZORG.	VPG0036
VraBallooning	On 4.x host: VRA on host does not have enough resources. On 5.x host: VRA on host does not have enough reserved memory	On 4.x host: VRA on host does not have enough resources. On 5.x host: VRA on host does not have enough reserved memory.	VRA0029
VraCloneVolume	A VRA clone volume error	AVRA clone volume error.	VRA0014, VRA0015, VRA0016, VRA0017
VraDidntReceiveIp	The VRA didn't receive an IP	The VRA didn't receive an IP.	VRA0002
VraIpChanged	The VRA IP changed	The VRA IP changed.	VRA0003, VRA0004
VraLogVolume	VRA journal volume error	A VRA journal volume error.	VRA0006, VRA0007
VraPoweredOff	VRA is powered off	A VRA is powered off.	VRA0028
VraProtectedVolume	VRA protected volume error	A VRA protected volume error.	VRA0018, VRA0019, VRA0020, VRA0021, VRA0022, VRA0025
VRARegistrationFailed	Problem with an ESX/i upgrade	A problem with an ESX/ESXi upgrade.	VRA0023, VRA0015, VRA0016, VRA0017
VRAsReconciliation	The Zerto Virtual Manager is synchronizing all of its VRAs	The Zerto Virtual Manager is synchronizing all of its VRAs. It can happen if there was a site disconnect and the Zerto Virtual Managers detected that a change was made while the sites were disconnected. For example, executing a failover while the sites are disconnected and then they reconnect.	VRA0035
VraTargetVolume	Recovery volume error for a VRA	A recovery volume error for a VRA.	VRA0008, VRA0009, VRA0010, VRA0011, VRA0012, VRA0013
VraToVraConnection	A VRA is not connected to a remote site VRA	A VRA is not connected to a remote site VRA.	VRA0006
Win2003VmDuringReplicationToVCD	Windows 2003 VM in VPG that is recovering to vCD	The VPG includes a Windows 2003 virtual machine which cannot be recovered in vCD.	VPG0041
ZertoGenericAlert	Zerto generic alert: check Zerto UI for details.	An alert is issued when none of the specific alerts are valid for the situation.	VRA0030

COM.ZERTO.EVENT.<alarm>	DESCRIPTION IN VCENTER SERVER	EXPANDED DESCRIPTION	RELATED ZERTO VIRTUAL REPLICATION ALERTS
ZvmToVraConnection	The Zerto Virtual Manager is not connected to a VRA	The Zerto Virtual Manager is not connected to a VRA.	ZVM0002
ZvmToZvmConnection	The Zerto Virtual Manager is not connected to a remote site Zerto Virtual Manager	The Zerto Virtual Manager is not connected to a remote site Zerto Virtual Manager.	ZVM0003 , ZVM0004
ZvmToZvmSync	The Zerto Virtual Managers are syncing with each other	The Zerto Virtual Manager is synchronizing with the remote site.	ZVM0010

All events which are triggered by Zerto Virtual Replication are displayed in the Zerto User Interface.

Each event has a number, and a description.

Use the following topics to understand how to monitor events, and to review details of each event which is triggered.

- [“Monitoring Events”, below](#)
- [“Events”, on page 76](#)

Monitoring Events

To view events, click the **MONITORING** tab, then click the **EVENTS** area. A list of tasks performed within Zerto Virtual Replication is displayed.

To filter events:

1. To filter the events, select:
 - **Type:** You can display just the events generated by Zerto Virtual Replication or the alert on and off events or both.
 - **From** and **To:** The dates for which you want event information. Only activities performed, between these dates are displayed.
2. Click **APPLY** to apply the filtering selected via any of the above fields.
3. Click **RESET** to reset the display to the defaults values.
4. Click **EXPORT** to export the listing of events to a Microsoft Excel file.
See further details about any event by clicking the event **ID** link, and by referring to the section [Events](#).

Events

Events are triggered within Zerto Virtual Replication, including when an alert is issued or turned off.

For descriptions of each event, see the following:

[EV0002: Create VPG](#)

[EV0003: Remove VPG](#)

[EV0004: Failover](#)

[EV0005: Test failover](#)

[EV0006: Stop failover test](#)

[EV0008: Move VPG](#)

[EV0009: Protect VM](#)

[EV0010: Unprotect VM](#)

[EV0013: Install VRA](#)

[EV0014: Uninstall VRA](#)

[EV0016: Update VPG](#)

[EV0017: Add tagged checkpoint](#)

[EV0019: Promotion for VM in VPG complete](#)

EV0020: Promotion for all VMs in VPG complete
EV0021: Log collection
EV0023: Force Configuration of VM
EV0024: Delete Paired VPGs
EV0025: Forcibly delete VPG
EV0026: Update VPG
EV0027: Forcibly delete VPG in error state
EV0028: Run script
EV0029: Initialize full sync
EV0030: Pair sites
EV0031: Unpair sites
EV0034: Install Zerto Cloud Connector
EV0035: Uninstall Zerto Cloud Connector
EV0037: Script failed
EV0038: Update advanced site settings
EV0039: Clone
EV0040: Remove VM from VPG and keep disk
EV0041: Failover Without Commit
EV0042: Committing Failover
EV0043: Failover rollback
EV0044: Move without commit
EV0045: Move rollback
EV0046: Committing move
EV0047: Move host resources
EV0048: Upgrade VRA
EV0049: Change VPG substatus to need configuration
EV0050: Change VRA IP settings
EV0051- Pause VPG by User
EV0052: Resume VPG by User
EV0053: Upgrade Zerto Virtual Manager
EV0054: Upgrade more than one VRA
EV0055: Uninstall more than one VRA
EV0056: Alert Turned On
EV0057: Alert Turned Off
EV0058: Change VRA password
EV0059: Change recovery host
EV0060: Backup VPG

- EV0061: Redeploy Cloud Connector
- EV0062: Cleanup VPG IP Diskbox
- EV0063: Restore
- EV0064: Pre-script
- EV0065: Post-script
- EV0066: Virtual Machine removed
- EV0067: Change VRA IP and password settings
- EV0068: File level recovery disk mounted
- EV0069: File level recovery disk unmounted
- EV0070: ZVM/ZSSP Login
- EV0072: Host entering maintenance mode
- EV0073: Host exiting maintenance mode
- EV0074: VM Restored to Snapshot
- EV0077: Pause VPG by the System
- EV0078: Resume VPG by User After Editing a VPG
- EV0079: Resume VPG by System
- EV0101: Starting Zerto Installer Download
- EV0102: Downloading Zerto Installer
- EV0103: Starting Remote ZVM Upgrade
- EV0104- Remote Upgrade of Zerto Virtual Manager

EV0002: Create VPG

A new VPG was defined.

EV0003: Remove VPG

A VPG has been removed and the virtual machines in the VPG are no longer protected. The virtual machines are removed and if the target disks are saved they can be used as preseeded disks if the virtual machines are reprotected. The location of the preseeded disk is specified in the description of the event, "[EV0040: Remove VM from VPG and keep disk](#)", on page 81.

Note: If the VPG was not successfully removed, it can still be forcibly removed. If a test failover, failover or move operation is being performed on the VPG, the VPG is not removed.

EV0004: Failover

Support event for backwards compatibility: A failover operation was performed on a VPG.

EV0005: Test failover

A failover test operation was performed on a VPG to test the recovery process. The test does not stop the ongoing protection of the virtual machines defined in the VPG.

EV0006: Stop failover test

A failover test operation on a VPG was stopped and the test virtual machines are removed from the recovery site.

EV0008: Move VPG

Support event for backwards compatibility: A VPG has been migrated to the recovery site.

EV0009: Protect VM

A virtual machine has been added to a protected VCD vApp and is added to the VPG.

EV0010: Unprotect VM

A virtual machine is removed from a protected VCD vApp and is also removed from the VPG.

EV0013: Install VRA

Installing a Virtual Replication Appliance, VRA.

EV0014: Uninstall VRA

Uninstalling a Virtual Replication Appliance, VRA.

EV0016: Update VPG

A VPG is updated.

EV0017: Add tagged checkpoint

A checkpoint with a tag has been added. Tagged checkpoints are added manually either by a user or by the Zerto Virtual Manager when a virtual machine is added to an existing VPG and the synchronization of the added machine is complete and when a failover test finishes.

EV0019: Promotion for VM in VPG complete

The promotion of journal data to a recovered virtual machine has completed.

EV0020: Promotion for all VMs in VPG complete

After a recovery operation promotion of data from every journal for every virtual machine in the VPG has completed.

EV0021: Log collection

Logs are collected.

EV0023: Force Configuration of VM

The protected VM has changed.

EV0024: Delete Paired VPGs

All VPGs for the paired site are removed. All the virtual machines that were protected in these VPGs are no longer protected.

EV0025: Forcibly delete VPG

A VPG has been removed and the virtual machines in the VPG are no longer protected.

EV0026: Update VPG

A VPG has been updated.

EV0027: Forcibly delete VPG in error state

A VPG is moved to an error state and has to be forcibly removed. The virtual machines in the VPG are no longer protected.

EV0028: Run script

DEPRECATED

The script completed.

EV0029: Initialize full sync

A VPG has been forcibly synchronized.

EV0030: Pair sites

Two sites are connected together, enabling one of the sites to protect virtual machines on the other site.

EV0031: Unpair sites

Two paired sites are unpaired. All VPGs in either site are also removed and the virtual machines no longer protected.

EV0034: Install Zerto Cloud Connector

A Zerto Cloud Connector has been installed.

EV0035: Uninstall Zerto Cloud Connector

A Zerto cloud connector is uninstalled.

EV0037: Script failed

A pre-script or post-script failed.

EV0038: Update advanced site settings

Advanced settings have been saved. Advanced settings include:

- The maximum bandwidth Zerto Virtual Replication uses across the sites.
- The timeout used for scripts that run before or after a failover, move or test failover.
- Protected virtual machines can be recovered to the same site.
- The scales to use when displaying the performance graphs (for IOPS, throughput, WAN traffic, the time from last checkpoint as an indication of compliance with the required RPO and the CPU usage by the VRA).
- The time to wait in seconds for a live failover or move operation before automatically committing or rolling back the operation.

EV0039: Clone

A VPG has been cloned in the recovery site.

EV0040: Remove VM from VPG and keep disk

When a VPG is removed the recovery disks for the virtual machines are kept and can be used as preseeded disks if the virtual machines are reprotected. The location of the preseeded disk is specified in the description of the event.

EV0041: Failover Without Commit

A failover operation has started and the virtual machines on the recovery site are started up, with the ability to check the recovered machines before committing the failover.

EV0042: Committing Failover

A VPG has been failed over to the recovery site.

EV0043: Failover rollback

A VPG that was marked for failover has been rolled back to its previous state in the protected site.

EV0044: Move without commit

A move operation has started and the virtual machines on the recovery site are started up, with the ability to check the recovered machines before committing the operation.

EV0045: Move rollback

A VPG that was marked for moving has been rolled back to its previous state in the protected site.

EV0046: Committing move

A VPG has been moved to the recovery site.

EV0047: Move host resources

VRA data has been moved to another host.

EV0048: Upgrade VRA

The VRA is upgraded to the latest version.

EV0049: Change VPG substatus to need configuration

DEPRECATED

The VPG needs to be configured to enable protecting the virtual machines in it.

EV0050: Change VRA IP settings

DEPRECATED

The VRA network settings have changed, for example when the gateway to the VRA is changed.

EV0051- Pause VPG by User

Protection group {vpg name} was paused by the user. Completed successfully.

EV0052: Resume VPG by User

Protection group {vpg name} was resumed by the user. Completed successfully.

EV0053: Upgrade Zerto Virtual Manager

DEPRECATED

The Zerto Virtual Manager is upgraded to the latest version.

EV0054: Upgrade more than one VRA

A group of VRAs have been upgraded. This event is performed asynchronously. Check the alerts to ensure that all the VRAs are actually upgraded.

EV0055: Uninstall more than one VRA

A group of VRAs have been uninstalled. This event is performed asynchronously. Check the alerts to ensure that all the VRAs are actually uninstalled.

EV0056: Alert Turned On

An alert is issued.

EV0057: Alert Turned Off

An alert is dismissed.

Any Zerto Virtual Replication alert will only be turned off when all instances of the alert are turned off. For example, if you pause two VPGs and then resume just a single VPG, the alert remains on. Only when no VPGs are paused is the alert stopped.

EV0058: Change VRA password

DEPRECATED

The VRA password used to access the host was changed.

EV0059: Change recovery host

The recovery host for the virtual machine in the VPG was changed.

EV0060: Backup VPG

A VPG backup was run for the VPG.

EV0061: Redeploy Cloud Connector

The Zerto Cloud Connector was redeployed.

EV0062: Cleanup VPG IP Diskbox

A change datastore operation failed and a cleanup of the temporary virtual machine used by Zerto Virtual Replication to implement the change datastore was performed.

EV0063: Restore

An offsite backup was restored.

EV0064: Pre-script

A script was run at the beginning of a recovery operation.

EV0065: Post-script

A script was run at the end of a recovery operation.

EV0066: Virtual Machine removed

A virtual machine was removed from the hypervisor manager.

EV0067: Change VRA IP and password settings

The VRA network settings have changed, for example when the gateway to the VRA is changed or the VRA password used to access the host was changed.

EV0068: File level recovery disk mounted

A disk for file level recovery was mounted.

EV0069: File level recovery disk unmounted

A disk for file level recovery was unmounted.

EV0070: ZVM/ZSSP Login

The login status to the Zerto Virtual Manager Web Client or Zerto Self-service Portal.

EV0072: Host entering maintenance mode

The host is entering maintenance mode. The VRA on the host will wait for the protected virtual machines to be vMotioned or up to 10 minutes, whichever occurs first, before shutting down automatically.

EV0073: Host exiting maintenance mode

The host is exiting maintenance mode. The VRA must be manually powered on.

EV0074: VM Restored to Snapshot

VM {VM Name} was restored to a snapshot. VPG {vpg name} will sync to ensure consistency.

EV0077: Pause VPG by the System

Protection group {vpg name} was paused by the System. One or more VMs were removed from the inventory.

EV0078: Resume VPG by User After Editing a VPG

For a single virtual machine: Protection group {vpg name} was resumed by the user after editing the VPG. VM {vm name} was removed from the VPG.

For multiple virtual machines: Protection group {vpg name} was resumed by the user after editing the VPG. VMs {vm names} were removed from the VPG.

EV0079: Resume VPG by System

Protection group {vpg name} was resumed by the System. One or more VMs were added to the inventory.

EV0080: Cloud

Max EBS Provision IOPS quota has been reached, therefore some VMs have been recovered using a slower gp2 disk. Contact AWS Support to increase the Max EBS Provision IOPS quota. See Zerto documentation for more information

EV0101: Starting Zerto Installer Download

Started download for Zerto Virtual Manager Installer.

EV0102: Downloading Zerto Installer

Downloading Zerto Virtual Manager installer.

EV0103: Starting Remote ZVM Upgrade

Starting remote Zerto Virtual Manager upgrade.

EV0104- Remote Upgrade of Zerto Virtual Manager

Zerto Virtual Manager was remotely upgraded to the latest version.

Events

Zerto helps customers accelerate IT transformation by eliminating the risk and complexity of modernization and cloud adoption. Replacing multiple legacy solutions with a single IT Resilience Platform, Zerto is changing the way disaster recovery, data protection and cloud are managed. With unmatched scale, Zerto's software platform delivers continuous availability for an always-on customer experience while simplifying workload mobility to protect, recover and move applications freely across hybrid and multi-clouds. Zerto is trusted by over 6,000 enterprise customers globally, and is powering resiliency offerings for Microsoft Azure, IBM Cloud, AWS, Sungard and more than 350 cloud services providers.

For assistance using Zerto Virtual Replication, contact: [@ZertoSupport](https://twitter.com/ZertoSupport).