

# Symantec™ ApplicationHA Release Notes

Linux

5.1 Service Pack 2

# Symantec™ ApplicationHA Release Notes

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# Symantec ApplicationHA Release Notes

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## Introduction

This document provides important information about Symantec ApplicationHA 5.1 SP2. Review this entire document before you install or upgrade ApplicationHA.

This is Document version: 5.1.SP2.0.

Before you start, make sure that you are using the latest version of this document. You can find it here:

<https://sort.symantec.com>

The information in the Release Notes supersedes the information provided in the product documents for ApplicationHA.

For the latest patches available for this release, go to:  
<https://sort.symantec.com/patch/matrix>.

## What is Symantec ApplicationHA

Symantec ApplicationHA provides monitoring capabilities for applications running inside virtual machines hosted on ESX or ESXi hosts managed by a VMware vCenter Server. Symantec ApplicationHA adds a layer of application awareness to the core High Availability functionality offered by VMware virtualization technology.

Symantec ApplicationHA is based on Veritas™ Cluster Server (VCS) and internally uses similar concepts such as agents, resources, and service groups. However, it does not include the high availability cluster components such as the Global Atomic Broadcast (GAB) and Low Latency Transport (LLT). Symantec ApplicationHA has a lightweight server footprint that allows faster installation and configuration.

Key benefits include:

- Out of box integration with VMware HA and VMware vCenter Server.
- Full visibility and control over applications with the ability to start, stop, and monitor applications running inside virtual machines
- Standardized way to manage applications using a single interface that is integrated with VMware vSphere Client
- Specialized Application Maintenance mode, in which ApplicationHA allows you to intentionally take an application out of its purview for maintenance or troubleshooting

## Salient features

Following are the salient features of ApplicationHA:

- Support for enterprise applications such as SAP NetWeaver, Oracle Database, WebLogic Server, WebSphere Application Server, and WebSphere MQ.
- Simple workflow for installation and configuration
- Single sign-on across virtual machines in a vCenter
- Discretionary access control based on user privileges
- Single GUI for managing applications running on Windows and Linux platforms
- Ability to view component dependency of configured applications over the GUI



- A single dashboard interface that provides a consolidated view of the configured applications and makes it easy for administrators to monitor the applications in the VMware virtual environment
- vSphere Client integrated option to install ApplicationHA guest components, manage licenses and configure single sign-on for site recovery.
- Ability to configure graceful reboot of virtual machines in case of an application failure
- Ability to maintain application monitoring continuity in a VMware SRM controlled disaster recovery environment
- Continued updates and additional application support distributed via Symantec Agent Pack releases

## What's new

The enhancements in this release of Symantec ApplicationHA are as follows:

### ApplicationHA home page integrated as vSphere Client extension

ApplicationHA home page is now integrated with vSphere Client under its Solutions and Applications panel.

Using the ApplicationHA home page, you can perform the following tasks:

- Install the ApplicationHA guest components
- Manage ApplicationHA licenses
- Configure single sign-on in a VMware site recovery setup

### ApplicationHA-initiated virtual machine reboot

ApplicationHA introduces another layer of application control wherein you can configure ApplicationHA itself to restart a virtual machine using native operating system commands. It is useful in cases where there is a need to first bring down other healthy applications and dependent components before actually restarting the virtual machine and also in VMware virtualization environments where VMware HA is not available.

ApplicationHA-initiated reboot works independently of VMware HA functionality. It is not intended to replace VMware HA. ApplicationHA-initiated reboot complements VMware HA by offering an additional layer of control that helps in building customized application management and recovery plans in virtualization environments.

Refer to the *Symantec ApplicationHA User's Guide* for more information.

## vSphere Client integrated option for installing ApplicationHA guest components

ApplicationHA introduces a vSphere Client integrated option to install the guest components on multiple virtual machines.

Using this option, you can choose to install the ApplicationHA guest components at the VMware data center, cluster or individual virtual machine level.

## Support for VMware vCenter Site Recovery Manager (SRM)

Symantec ApplicationHA provides an added support for VMware SRM, a disaster recovery solution for virtual machines.

Symantec ApplicationHA provides components that must be installed on the SRM Server. These components perform the following functions and help to initiate the application monitoring capability after the virtual machines are started on the recovery site.

- Deploys the recovery site ApplicationHA Console credentials on to the SRM Server at the recovery site.
- Enables to configure single sign-on between the recovery site ApplicationHA Console and the virtual machines at the protected site. This SSO configuration enables communication between the protected site virtual machines and the ApplicationHA Console and SRM Server at the recovery site.
- Provides the recovery step result in the VMware history status report.

## Single dashboard for administering applications on both Windows and Linux

Symantec ApplicationHA introduces a dashboard interface that enables you to monitor applications in a VMware virtualization environment. You can use the dashboard to monitor applications on both Windows and Linux. The ApplicationHA dashboard is integrated into the ApplicationHA tab of the VMware vSphere client GUI.

You can use the dashboard to review the aggregate health of an application across a VMware vCenter-administered datacenter or a VMware cluster. You can also drill down to a virtual machine and perform administrative tasks.

You can use the dashboard to perform the following administrative tasks:

- Start an application

- Stop an application
- Start application monitoring
- Stop application monitoring
- Enter an application into maintenance mode
- Remove an application from maintenance mode

In this release, ApplicationHA dashboard feature support for the datacenter-level view in the vSphere client is 'experimental only.' If you select a datacenter in the inventory view of the vSphere client and then click the ApplicationHA tab, then the datacenter view of the dashboard appears. The tab name changes to ApplicationHA (Experimental).

The dashboard displays accurate information about the applications configured on the virtual machines that are part of a datacenter. However, you may experience delays in the data refresh. The refresh time may depend on the number of virtual machines that are configured with ApplicationHA.

You may use this feature in production environments. There is absolutely no risk to the data, the applications, and the application monitoring configuration and functionality.

Note that this does not affect the dashboard feature support at the VMware cluster-level view in the vSphere client.

Please contact Symantec Technical Support to share feedback or report any issues that you encounter with this 'experimental only' feature. Symantec does not commit to troubleshoot or provide fixes for issues related to data refresh times. For any other issues encountered, Symantec will provide support as usual.

To optionally disable the dashboard at a datacenter level, perform the following steps:

1. On the system that hosts the ApplicationHA Console, navigate to the following folder:

```
<SystemDrive>:\Program Files\Veritas\VRTSsfmh\bin
```

2. Perform one of the following steps:

- To disable the ApplicationHA (Experimental) tab for a datacenter, run the following command:

```
InstallPath\ApplicationHA\bin\ExperimentalFeatures.pl -disable
```

Where, typically the *InstallPath* is:

```
C:\Program Files\Veritas\
```

- To enable the ApplicationHA (Experimental) tab for a datacenter, run the following command:

```
InstallPath\bin\ExperimentalFeatures.pl -enable
```

Where, typically the *InstallPath* is:

```
C:\Program Files\Veritas\
```

The ApplicationHA (Experimental) tab is enabled by default.

3. Restart the vSphere Client.

## Ability to visualize component dependencies for monitored applications

The Symantec ApplicationHA provides a graphic utility to view dependencies between the various configured applications and their components. The Component Dependency utility appears as a button in the ApplicationHA tab of the VMware vSphere client GUI. If you click the button, the graph displays the applications in terms of monitored service groups, and the components of the monitored application in terms of resources. Tool tips highlight the state of each resource or service group.

## ApplicationHA Console host requirements

The following prerequisites apply to the machine that hosts the ApplicationHA Console:

- You can install the ApplicationHA Console on a physical or a virtual machine. If you wish to configure application monitoring for the ApplicationHA Console itself, the host must be a virtual machine.
- The ApplicationHA Console host must run Windows Server 2008 or Windows Server 2008 R2 (latest service packs supported).
- Memory must be a minimum 2 GB of RAM in addition to the recommended memory for the server operating system.
- Available disk space must be 350MB.
- Ensure that your firewall settings allow access to ports used by Symantec ApplicationHA installer, wizard, and services.

## VM requirements for installing ApplicationHA Guest Components

You can install Symantec ApplicationHA Guest Components on virtual machines running Linux operating systems. The virtual machine where you want to install ApplicationHA Guest Components must meet the following requirements.

The latest version of the product documentation is available on the Symantec Operations Readiness Tools (SORT) Web site here:

<https://sort.symantec.com>

## Supported Linux operating systems

The Symantec ApplicationHA 5.1 Service Pack 2 release supports the following operating systems:

- Red Hat Enterprise Linux (RHEL) 5 with Update 3 (2.6.18-128.el5 kernel) or later, Architecture: x86\_64
- SUSE Linux Enterprise Server (SLES) 11 Service Pack 1 (2.6.32.12-0.7 kernel) or later, Architecture: x86\_64
- Oracle Enterprise Linux (OEL) 5 with Update 3 (2.6.18-128.0.0.0.1.el5) or later, Architecture: x86\_64

## Supported VMware versions

The release supports the following VMware versions:

- VMware ESX\ESXi 4.1
- VMware ESX\ESXi 4.1 U1

## Supported applications

[Table 1-1](#) lists the applications that Symantec ApplicationHA currently supports on virtual machines.

**Table 1-1** Symantec ApplicationHA supported applications

Application	Version
SAP	SAP NetWeaver 7.0 (NW04)
Oracle Database	10g, 11gR1, and 11gR2
WebLogic	9.x and 10.x
WebSphere Application Server	7.x
WebSphere MQ	7.x

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**Note:** Alternatively, you can use the Generic Agent to configure other applications that are not listed in the above support matrix. For more information refer to *Symantec ApplicationHA Generic Agent Configuration Guide*.

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## Permissions requirements

The following permissions are required for installing the ApplicationHA guest components on the virtual machines:

- The logged-on user must have root privileges on the virtual machine where you install the guest components.  
In case of remote installation, you must also have root privileges on all the virtual machines where you install the guest components.
- When you use the vSphere Client menu to install the guest components, the installer prompts for the vCenter Server user name and password during the installation.  
This user account must have the privileges to enumerate the virtual machines visible in the vSphere Client.  
The installer uses this account to discover the virtual machine names in the vCenter Server inventory.

## Ports and firewall settings

ApplicationHA uses certain ports and services during installation and configuration. If you have configured a firewall, ensure that the firewall settings allow access to these ports and services on the virtual machines.

[Table 1-2](#) displays the services and ports used by ApplicationHA.

**Table 1-2** Services and ports used by Symantec ApplicationHA

Component Name	Port	Settings	Description
Veritas Storage Foundation Messaging Service (xpirtld.exe)	5634	Allow inbound and outbound	Used for communications between the ApplicationHA Console host machine and the virtual machines.
Symantec ApplicationHA Service	14151, 14152	Allow inbound and outbound	Used by the Tomcat server on console to receive web service requests and for local administration.

**Table 1-2** Services and ports used by Symantec ApplicationHA (*continued*)

Component Name	Port	Settings	Description
Symantec ApplicationHA Authentication Service	14153	Allow inbound and outbound	Used by ApplicationHA Console to receive authentication requests from virtual machines.
Symantec ApplicationHA Database Service	14154	Allow inbound and outbound	Used by ApplicationHA locally for database services between the ApplicationHA Console and the virtual machines.

## Required Linux RPMs for Symantec ApplicationHA

Make sure that you have installed the following operating system-specific RPMs on the system where you want to install ApplicationHA. ApplicationHA will support any updates made to the following RPMs, provided the RPMs maintain the ABI compatibility.

[Table 1-3](#) lists the RPMs that ApplicationHA requires for a specific Linux operating system.

**Table 1-3** Required Linux RPMs

Operating system	Required RPMs
RHEL 5 and OEL 5	compat-libstdc++-33-3.2.3-61.x86_64 rpm glibc-2.5-42.i686 rpm glibc-2.5-42.x86_64 rpm ksh-20080202-14.el5.x86_64 rpm libgcc-4.1.2-46.el5.i386 rpm libgcc-4.1.2-46.el5.x86_64 rpm libstdc++-4.1.2-46.el5.i386 rpm pam-0.99.6.2-6.el5.x86_64 rpm

**Table 1-3** Required Linux RPMs (*continued*)

Operating system	Required RPMs
SLES 11	glibc-2.9-13.2.x86_64 rpm glibc-32bit-2.9-13.2.x86_64 rpm ksh-93t-9.4.x86_64 rpm libgcc43-32bit-4.3.3_20081022-11.18.x86_64 rpm libgcc43-4.3.3_20081022-11.18.x86_64 rpm libstdc++33-3.3.3-11.9.x86_64 rpm libstdc++43-32bit-4.3.3_20081022-11.18.x86_64 rpm

## Additional requirements

The following additional software requirements apply:

- Microsoft Internet Explorer version 6.0 or later is required on the machine where the vSphere client is running.  
No other browsers are currently supported.
- Installation media and licenses for all products and third-party applications.
- Adobe Flash Player  
Install Adobe Flash Player (version 9.0 or later) on the systems from where you run the VMware vSphere Client to manage the virtual machines.
- Symantec ApplicationHA license  
An evaluation key is embedded in the product and is valid for two months. You can use all the product features during that period. To continue unrestricted usage, you must procure a valid license key.
- When installing Symantec ApplicationHA ensure that there are no parallel installations or live updates in progress.

## Software limitations

The following limitations apply to this release of the product.

- You cannot configure hardware components such as storage and network, using the ApplicationHA wizard.

### **Workaround**

- You can ensure that these components do not require monitoring. For example, for storage, you can add appropriate entries in the `/etc/fstab` file.



- Alternately, you can configure hardware components by using the Command Line Interface of Veritas Cluster Server (VCS) or Veritas Operations Manager (VOM).
- Symantec ApplicationHA supports only one application per virtual machine.
- Once you configure an application, ApplicationHA does not support edits or additions to the configuration.

**Workaround**

Remove existing configuration and then re-configure.

- If you try to install ApplicationHA guest components on a large number of systems, the process may take a long time.

**Workaround**

Specify smaller batches of systems while using the ApplicationHA install program or response file for multi-system installations.

- ApplicationHA Dashboard supports up to 30 component groups for monitoring an application on a single virtual machine.

## Known issues

The following known issues exist in this release of the product.

### Application configuration wizard fails

When you are in the process of executing the 'Configuring application monitoring' step, the wizard fails. The following error message appears:

ApplicationHA guest services not running

**Workaround**

Ensure that the Domain Name Server settings in the `/etc/resolv.conf` file are correct.

### Compatibility with other clustering products

Symantec ApplicationHA runs on Veritas Cluster Server (VCS). The version of VCS used by ApplicationHA is a customized version of VCS. Many components have been removed in order to provide a lighter footprint inside the virtual machine. You cannot run both ApplicationHA and VCS together inside the same virtual machine. There is no method to upgrade from ApplicationHA to VCS.

Additionally ApplicationHA does not co-exist with other clustering solutions offered by Symantec. These include, Veritas Storage Foundation High Availability,

Clustered File System, Clustered File System High Availability and Clustered Volume Manager.

## Errors in Veritas Storage Foundation installation

When you install ApplicationHA on a virtual machine, and then try to install Veritas Storage Foundation (SF), you may notice errors in the SF installation. (2141382)

### Workaround

To install ApplicationHA and SF on the same virtual machine, first install SF, and then install ApplicationHA.

## ApplicationHA tab issue

If you install both Veritas Storage Foundation (SF) and ApplicationHA on the same virtual machine, and then remove SF, the ApplicationHA tab on the vSphere client stops working. (2136077)

### Workaround

When you install ApplicationHA on a virtual machine, and then try to install Veritas Storage Foundation (SF), you may notice errors in the SF installation.

When you remove SF, you automatically remove the VRTSsfmh rpm from the system. The vSphere client needs the VRTSsfmh rpm to communicate with the virtual machine.

**To reinstate VRTSsfmh, perform the following steps:**

- 1 Install VRTSspt and VRTSsfmh rpms from the ApplicationHA install media.
- 2 Stop the xprtld service:

```
# /etc/init.d/xprtld stop
```

- 3 Add following line to the `/etc/opt/VRTSsfmh/xprtld.conf` file, if not present:

```
namespaces vcs=/opt/VRTSvcs/portal
```

- 4 Start the xprtld service:

```
# /etc/init.d/xprtld start
```

## Application monitoring configuration freezes

This issue occurs if you configure application monitoring on systems where host names start with a hyphen. (2038685)

The application monitoring configuration may freeze and the ApplicationHA view in the vSphere Client may not display the status of the application. If the configured application fails, ApplicationHA takes no action.

Symantec recommends that you rename systems whose host names start with a hyphen before installing ApplicationHA and configuring application monitoring on those systems.

## Issues while working with VMware snapshots and migrating virtual machines

The following issues may occur while you are performing virtual machine administration on systems where Symantec ApplicationHA is actively monitoring applications:

- While working with virtual machine snapshots

While taking a virtual machine snapshot, the ApplicationHA view may freeze momentarily and may not display the current state of the applications being monitored. Also, after you revert a snapshot, the virtual machine may reboot after the operation completes.

The Events view on the Tasks & Events tab in the vSphere Client displays the following warning messages:

Application heartbeat **failed** for <virtualmachinedisplayname> on <ESX host> in cluster <clustername> in <datacentername>

Application heartbeat status changed to **appStatusRed** for <virtualmachinedisplayname> on <ESX host> in cluster <clustername> in <datacentername>

Application heartbeat status changed to **appStatusGreen** for <virtualmachinedisplayname> on <ESX host> in cluster <clustername> in <datacentername>

- While migrating virtual machines to an alternate ESX host

When you initiate a virtual machine migration, the ApplicationHA view may freeze momentarily and may not display the current state of the applications that is being monitored.

The Events view on the Tasks & Events tab in the vSphere Client displays multiple instances of the following warning messages:

Application heartbeat status changed to **appStatusGray** for <virtualmachinedisplayname> on <ESX host> in cluster <clustername> in <datacentername>

Application heartbeat status changed to **appStatusGreen** for <virtualmachinedisplayname> on <ESX host> in cluster <clustername> in <datacentername>

### **Workaround**

This is a known issue with VMware HA. Check the following VMware knowledge base article for more information about the hot fix for this issue:

<http://kb.vmware.com/kb/1027413>

Symantec recommends that you disable the application heartbeat (Disable Application Heartbeat button in the ApplicationHA view) on the virtual machine before working with snapshots or migrating the virtual machine. After the virtual machine administration activity is complete, enable the application heartbeat (Enable Application Heartbeat button in the ApplicationHA view) again.

## **Symantec ApplicationHA commands do not display the time as per the locale settings**

This issue occurs with all the ApplicationHA commands that display the date and time stamp in the output. The date and time stamp do not display as per the locale settings on the system. They are displayed only in English. (2142740)

## **ApplicationHA tab may freeze**

The ApplicationHA tab in the vSphere Client console may freeze if ApplicationHA is unable to establish a connection with the virtual machine. The application status in the ApplicationHA view appears to be in a hung state and does not refresh. (2125902)

### **Workaround**

This may occur if the virtual machine fails to respond to ApplicationHA http requests. Either the virtual machine has moved to a suspended state or is in the process of migrating to an alternate ESX host.

Perform the following actions:

- Verify that the virtual machine is powered on and accessible over the network.
- Close the ApplicationHA tab and open it again.  
In the vSphere Client, click another virtual machine, then click the original virtual machine again and then select the ApplicationHA tab, or exit the vSphere Client and launch it again.

## ApplicationHA Console installation gives an error and the plugin registration fails if the installation directory contains multiple "%" characters

This issue occurs while installing ApplicationHA Console using the Symantec ApplicationHA Console Installer. On the System Validation panel, if you customize the installation directory to a path that contains consecutive multiple "%" characters, the wizard successfully completes the verification checks and allows you to proceed further. However, when you click **Next** on the Post-install Summary panel the wizard displays a "Failed to create private domain. The system cannot find the path specified" error. You can click **Ok** on the error message and proceed with the installation. However, after the installation workflow is complete the wizard fails to register the ApplicationHA plugin on the vCenter Server.

If you verify the plugin registration using the PluginMgmt.bat utility available on the Console server, the plugin status reflects that the plugin is already registered. However, if you verify the plugin status on the Plug-in Manager available on the vCenter Server, the plugin status reflects "Download & Install".

### **Workaround**

Launch the ApplicationHA Console installation wizard again and provide a valid path that does not contain multiple "%" characters.

## ApplicationHA fails to work if Veritas Operations Manager is uninstalled

The Managed Host components of Veritas Operations Manager (VOM) are installed on the Console Server and the guest virtual machines, during the ApplicationHA installation. (2361128, 2323516)

Uninstallation of VOM removes the VRTSsfmh package which breaks the ApplicationHA functionality. The sfmh package contains the 'Veritas Storage Foundation Messaging Service' (xpftld) that is used by both, ApplicationHA and VOM.

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**Note:** This issue also occurs when you uninstall the Veritas Operations Manager Central Server.

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### **Workaround**

### Perform the following steps

- 1 Insert the ApplicationHA software disc into your system drive and navigate to the rpms directory:

```
# cd cdrom_root/<platform-specific folder>/rpms
```

The following table lists each platform-specific folder:

Operating system	Folder
Oracle Enterprise Linux	rhel5_x86_64
Red Hat Enterprise Linux	rhel5_x86_64
SUSE Linux Enterprise Server	sles11_x86_64

- 2 Run the following command:

```
# rpm -ivh VRTSsfmh-3.1.830.0_Linux.rpm
```

- 3 Stop the `xprtld` service.

```
# /etc/init.d/xprtld stop
```

- 4 Ensure that the file `/etc/opt/VRTSsfmh/xprtld.conf` contains the following text:

```
namespaces vcs=/opt/VRTSvc/portal
```

- 5 Start the `xprtld` service.

```
# /etc/init.d/xprtld start
```

- 6 From the ApplicationHA tab on the vSphere client, configure single sign-on.

For more information on configuring SSO, refer to the *Symantec ApplicationHA User's Guide*

## ApplicationHA guest components installation using the vSphere Client integrated menu may fail with "Failed to log-on..." error

While installing the ApplicationHA guest components using the vCenter integrated menu, the installation workflow completes successfully. However, the installation may fail with the "Failed to log-on" error on some virtual machines after the tasks are queued for installation. (2361891)

Also, a "MKS error..." may appear if you try to connect to these virtual machines using the vSphere client.

### Workaround

- Refer to the VMware KB at the following location:

```
http://kb.vmware.com/selfservice/microsites/search.do?
language=en_US&cmd=displayKC&externalId=749640
```

- Restart the virtual machines on which the installation has failed.
- If the problem continues, contact your network administrator.

## vMotion causes delay in health view and dashboard refresh

If you have configured application monitoring on a virtual machine with VMware vMotion enabled, the vMotion process gets triggered if the application faults and the virtual machine reboots. (2363462)

Due to vMotion, after a reboot the virtual machine starts and the application comes online on a failover virtual machine on a new ESX host. Even if the application is online, the ApplicationHA health view and the dashboard reflects the application status after a slight delay.

## After a vMotion application heartbeat status shows "appStatusGreen" even if the application is faulted

After the application faults if you trigger VMware vMotion instead of VM reboot, the Tasks and Events of a virtual machine reflects the application status as "appStatusGreen", even if the application is faulted. (2363487)

This issue is observed if you are using the VMware vSphere Client 4.0 and 4.1.

## During a test recovery ApplicationHA dashboard at both the sites show the updates

If your VMware cluster network settings for test recovery are such that the failed over virtual machines are able to communicate with the protected site ApplicationHA Console (due to the MAC address being the same as that of the protected site), then the updates due to the administrative tasks performed for application monitoring are reflected on the ApplicationHA dashboard at both the sites. (2363496)

## Guest installation fails with an error "Failed to launch the guest installer process"

This issue is observed while installing the ApplicationHA guest components using the vSphere Client menu.

After the installation workflow is complete the virtual machine is queued for installation. However, the installation process may fail to start with a "Failed to launch the guest installer process" error in the vSphere Client tasks.

### **Workaround**

On the virtual machine where the installation has failed run the installation wizard again.

## Refreshing the ApplicationHA view multiple times displays a network connectivity error

This issue is typically observed in case of IE7 browser.

ApplicationHA view refreshes the application status every 60 seconds. However, in case of network failure if you manually refresh the ApplicationHA view multiple times, IE displays a network connectivity error. (2379946, 2379707)

If you click Ok on the error message and then click another virtual machine in the vSphere Client, then the ApplicationHA tab displays the application status of an unknown application.

This issue also occurs if you refresh the ApplicationHA view and simultaneously reset the virtual machine.

### **Workaround**

For details, refer to the following knowledge base article from Microsoft.

[http://support.microsoft.com/kb/927917#more\\_information](http://support.microsoft.com/kb/927917#more_information)

## VOM CS installation fails

You may be unable to install VOM Central Server (CS) on a virtual machine when the following two conditions simultaneously occur:

- You install VOM Central Server (VOM) on a virtual machine where ApplicationHA guest components are installed
- Single sign-on is configured with ApplicationHA Console

Workaround:



First install VOM CS on a virtual machine and then install the ApplicationHA guest components. You must then manually start the VOM Web Server.

## Field selection using the Tab key may not work on the vCenter Server User Details panel

This issue occurs on the vCenter Server User Details panel during the ApplicationHA guest components installation, using the vSphere Client menu. The issue is typically observed if you have Adobe FlashPlayer version 10.1 installed on your system. (2362878)

### Workaround

You have to click each field to specify the inputs.

## Memory leak may occur in ApplicationHA guest virtual machines running Linux

You may observe a memory leak on ApplicationHA guests running Linux operating systems. The memory leak may increase with time. (2385267)

### Workaround

- 1 From the inventory view of the VMware vSphere Client, select a virtual machine and click the **ApplicationHA** tab.
- 2 In the ApplicationHA view, click **Enter Maintenance Mode**.
- 3 Click **Exit Maintenance Mode**.

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**Note:** You can perform these steps simultaneously for multiple guest virtual machines in the same datacenter or VMware cluster by using the ApplicationHA dashboard.

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## SSO configuration fails if the virtual machine administrator account credentials include special characters

Single sign-on (SSO) configuration between the virtual machine and the Console host involves specifying the virtual machine administrator account to set up single sign-on for the virtual machine. This configuration fails if the administrator account credentials includes the following special characters:

- & (ampersand)
- \* (asterisk)
- % (percent)

- + (plus)

A syntax error dialog is displayed when you try to log on to the virtual machine from the ApplicationHA tab in the vSphere client. (2385156)