

vCloud Automation Center Support Matrix

vCloud Automation Center 5.1

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Overview

This support matrix provides information on configurations supported by VMware vCloud® Automation Center™ Release 5.1 and associated requirements and restrictions.

vCloud Automation Center 5.1 is the follow-on release to DynamicOps Cloud Automation Center 4.5.

vCloud Automation Center Requirements

The following sections describe the system requirements for VMware software.

Core vCAC Requirements

These sections describe the operating system and software prerequisites for the core vCAC components, including the Manager Service, Model Manager, Portal Website, Reports Website, Distributed Execution Managers, and Proxy Agents.

For information about recommended minimum hardware configurations, refer to the *vCloud Automation Center Reference Architecture*.

Operating System

vCAC is supported on Windows Server 2008 R2 SP1 (64-bit) only.

Additional vCAC Server requirements

The following must be installed on the vCAC host before installing vCAC:

- Microsoft .NET Framework 4.0
- Microsoft PowerShell 2.0 (included with Windows Server 2008 R2 SP)
- Microsoft Internet Information Services 7.5

Database Requirements

The vCAC Database may be hosted on either the vCAC Server host or a remote host. vCAC supports the following Microsoft SQL Server configurations:

- SQL Server 2008 R2 SP1 and later Enterprise Edition on Windows Server 2008 R2 SP1
- SQL Server 2008 R2 SP1 and later Standard Edition on Windows Server 2008 R2 SP1
- SQL Server 2008 Express R2 SP1 and later on Windows Server 2008 R2 SP1
- SQL Server 2012 Enterprise Edition on Windows Server 2008 R2 SP1
- SQL Server 2012 Business Intelligence Edition on Windows Server 2008 R2 SP1
- SQL Server 2012 Standard Edition on Windows Server 2008 R2 SP1
- SQL Server 2012 Express on Windows Server 2008 R2 SP1

Note: SQL Server Express is supported only when installed on the same host as the vCAC Server.

Email Infrastructure Requirements

vCAC supports both basic authentication and anonymous connections to an SMTP server, using SSL or without SSL.

To enable email notifications, email addresses of vCAC users must be stored in Active Directory and the Manager Service must have read permissions for Active Directory.

Microsoft Active Directory Requirements

vCAC uses Active Directory to look up email addresses and optionally for the AzMan authorization store. vCAC supports Active Directory on Windows 2003 and Windows 2008 with forest functional level.

Transport Protocols

vCAC supports the following transport protocols:

- HTTP
- HTTPS

All components of a single vCAC instance must be installed with the same protocol. If you install vCAC to use HTTPS, users can also access the vCAC Console via HTTP.

vCloud Automation Center Designer Requirements

vCAC Designer is supported on the following operating systems:

- Windows Server 2008 R2 SP1 (64-bit)
- Windows 7 SP1 (32- or 64-bit)
- Windows Vista Business (32- or 64-bit)
- Windows XP SP3 (32- or 64-bit)

Browser Support by Operating System

Windows

The following browsers are supported on Windows Server 2008 R2 SP1, Windows XP SP3 Professional (vCAC Console only), and Windows 7 SP1 Professional (32- and 64-bit).

Browser	vCAC Console	Self-Service Portal
Internet Explorer 7	✓	
Internet Explorer 8	✓	
Internet Explorer 9	✓	✓
Firefox 15.0	✓	✓
Chrome 18	✓	
Chrome 22	✓	✓

Restrictions

- All supported Internet Explorer versions are 32-bit.
- Internet Explorer 7 is not supported on Windows Server 2008 R2 SP1.
- Internet Explorer 9 is not supported on Windows XP.

Mac OS X

The following browsers are supported on Mac OS X 10.7 (Lion) and 10.6 (Snow Leopard):

Browser	vCAC Console	Self-Service Portal
Firefox 15.0	✓	✓
Chrome 18	✓	
Chrome 22	✓	✓
Safari 5.1.7	✓	✓
Safari 6.0	✓	

Linux

The following browsers are supported on Red Hat Enterprise Linux Server 6:

Browser	vCAC Console	Self-Service Portal
Firefox 15.0	✓	✓
Chrome 18	✓	
Chrome 22	✓	✓

Virtualization Platform Support

Hypervisors

VMware

- ESX 3.5 through Update 5
- ESX 4.0 through Update 2
- ESX 4.1 through Update 2
- ESXi 3.5 through Update 5
- ESXi 4.0 through Update 4
- ESXi 4.1 through Update 2
- ESXi 5.0 through Update 1
- ESXi 5.1

Microsoft

- Hyper-V 2008 R2
- Hyper-V 2008 R2 SP1

Citrix

- XenServer 5.6 through SP2
- XenServer 6.0.2

Hypervisor Management

VMware

- vCenter Server 2.5 through Update 6
- vCenter Server 4.0 through Update 4
- vCenter Server 4.1 through Update 2
- vCenter Server 5.0 through Update 1
- vCenter Server 5.1

Note: Use of SDRS datastore clusters is not supported with vCenter Server 5.0 or later.

Microsoft

- SCVMM 2012 (Hyper-V only)

Server Management Support

Server Management Interfaces

Dell

Rack systems:

- LC 1.5 with iDRAC6 v1.7
- LC 1.5.1 with iDRAC6 v1.8
- LC 1.5.2 with iDRAC6 v1.85
- LC 1.5.5 with iDRAC v1.90
- LC2 v1.0 with iDRAC7 v1.0 and later

Blade systems:

- LC 1.5 with iDRAC6 v3.2
- LC 1.5.1 with iDRAC6 v3.3
- LC 1.5.2 with iDRAC6 v3.35
- LC 1.5.5 with iDRAC v3.40
- LC2 v1.0 with iDRAC7 v1.0 and later

HP

- iLO 3, firmware version 1.28
- iLO 4, firmware version 1.05

Cisco

- UCS Manager 2.0

Note: For recent releases of server management systems, the required drivers may not be installed as part of your operating system. For the latest drivers, contact the appropriate vendor (for example, Dell for iDRAC7 or HP for iLO4).

External Cloud Support

vCloud Automation Center supports Amazon Web Services Elastic Cloud Computing (EC2).

Image Deployment Methods

Deployment Method	Version (if applicable)
VMware vCloud Director	5.1
Microsoft System Center Configuration Manager (SCCM)	2007 R3, 2012
NetApp FlexClone OnTap	7.3.1.1, 8.0.1, 8.1
BMC BladeLogic Operations Manager	7.6
HP Software Server Automation	7.8
Citrix Provisioning Server	5.6 through SP2
Windows WinPE/WIM imaging	
Red Hat Linux Kickstart	
Suse AutoYaST	
PXE Boot	

Image Deployment Methods by Machine Type and Guest OS

Deployment Method	Machine Type		Guest OS			
	Virtual	Physical	Windows	Linux	ESX/ESXi	Hyper-V
VMware vCloud Director	VMware only					
Microsoft System Center Configuration Manager	VMware and SCVMM	✓	✓			
NetApp FlexClone OnTap	VMware only		✓	✓		
BMC BladeLogic Operations Manager	VMware only		✓	✓		
HP Software Server Automation	VMware only		✓	✓		
Citrix Provisioning Server	VMware and XenServer		✓	✓		
Windows WinPE/WIM Imaging	✓	✓	✓			physical only
Red Hat Linux Kickstart	✓	✓		✓	physical only	
SUSE AutoYaST	✓	✓		✓	physical only	
PXE Boot		✓	✓	✓	✓	
SSCM via PXE		✓	✓	✓		

Note: Cisco UCS Manager is supported with PXE Boot only.

Guest Operating Systems

vCloud Automation Center supports the following guest operating systems on both virtual and physical machines for both 32- and 64-bit where applicable.

Windows

- Windows XP
- Windows 7
- Windows Vista
- Windows Server 2003
- Windows Server 2003 R2
- Windows Server 2008
- Windows Server 2008 R2
- Windows Server 2008 R2 SP1

Linux

- Red Hat Enterprise Linux 5.2 through 5.8
- Red Hat Enterprise Linux 6 through 6.3
- SUSE Linux Enterprise Server 10 SP3 or SP4
- SUSE Linux Enterprise Server 11 SP1 or SP2

VMware

- VMware ESXi 4.0 Update 4
- VMware ESXi 4.1 through Update 2
- VMware ESXi 5.0 through Update 1
- VMware ESXi 5.1
- VMware ESX 4.0 Update 2
- VMware ESX 4.1 Update 2

Guest Operating System Support by Virtualization Platform

VMware

Operating System	vCenter Server 2.5	vCenter Server 4.0	vCenter Server 4.1	vCenter Server 5.0	vCenter Server 5.1
Windows Server 2003	✓	✓	✓	✓	✓
Windows Server 2003 R2	✓	✓	✓	✓	✓
Windows Server 2008	✓	✓	✓	✓	✓
Windows Server 2008 R2	✓	✓	✓	✓	✓
Windows Server 2008 R2 SP1	✓	✓	✓	✓	✓
Windows XP	✓	✓	✓	✓	✓
Windows Vista	✓	✓	✓	✓	✓
Windows 7	✓	✓	✓	✓	✓
RedHat Enterprise Linux Server 5.x	✓	✓	✓	✓	✓
RedHat Enterprise Linux Server 6.x		✓	✓	✓	✓
Suse Linux Enterprise Server 10	✓	✓	✓	✓	✓
Suse Linux Enterprise Server 11		✓	✓	✓	✓

Microsoft

Operating System	Standalone Hyper-V 2008	Hyper-V via SCVMM 2012
Windows Server 2003	✓	✓
Windows Server 2003 R2	✓	✓
Windows Server 2008	✓	✓
Windows Server 2008 R2	✓	✓
Windows Server 2008 R2 SP1	✓	✓
Windows XP	✓	✓
Windows Vista	✓	✓
Windows 7	✓	✓
RedHat Enterprise Linux Server 5.x	✓	✓
RedHat Enterprise Linux Server 6.x	✓	✓
Suse Linux Enterprise Server 10	✓	✓
Suse Linux Enterprise Server 11	✓	✓

Citrix

Operating System	XenServer 5.6	XenServer 5.6 SP2	XenServer 6.0.2
Windows Server 2003	✓	✓	✓
Windows Server 2003 R2	✓	✓	✓
Windows Server 2008	✓	✓	✓
Windows Server 2008 R2	✓	✓	✓
Windows Server 2008 R2 SP1		✓	✓
Windows XP	✓	✓	✓
Windows Vista	✓	✓	✓
Windows 7	✓	✓	✓
Windows 7 SP1			✓
RedHat Enterprise Linux Server 5.x	5.2 only	5.2 only	✓
RedHat Enterprise Linux Server 6.x		6.0 only	6.0 only
Suse Linux Enterprise Server 10	Update 3 only	Update 3 only	Update 3 only
Suse Linux Enterprise Server 11		Update 1 only	Update 1 only

Guest Operating System Support by Server Management Interface

Dell

Operating System	iDRAC6	iDRAC7
Windows Server 2003	✓	
Windows Server 2003 R2	✓	
Windows Server 2008	✓	SP2 only
Windows Server 2008 R2	✓	
Windows Server 2008 R2 SP1	✓	✓
RedHat Enterprise Linux Server 5.x	✓	
RedHat Enterprise Linux Server 6.x	✓	6.1 x64 only
Suse Linux Enterprise Server 10	✓	Update 4 x64 only
Suse Linux Enterprise Server 11	✓	Update 2 x64 only
VMware ESXi 4.0.x	✓	
VMware ESXi 4.1.x	✓	Update 2 only
VMware ESXi 5.0.x	✓	✓
VMware ESXi 5.1	✓	✓
VMware ESX 4.0.x	✓	
VMware ESX 4.1.x	✓	Update 2 only
Hyper-V 2008 R2	✓	✓

HP

Operating System	iLO 3	iLO 4
Windows Server 2003	✓	
Windows Server 2003 R2	✓	
Windows Server 2008	✓	✓
Windows Server 2008 R2	✓	✓
Windows Server 2008 R2 SP1	✓	✓
RedHat Enterprise Linux Server 5.x	✓	
RedHat Enterprise Linux Server 6.x	✓	✓
Suse Linux Enterprise Server 10	✓	✓
Suse Linux Enterprise Server 11	✓	✓
VMware ESXi 4.0.x	✓	
VMware ESXi 4.1.x	✓	✓
VMware ESXi 5.0.x	✓	✓

Operating System	iLO 3	iLO 4
VMware ESXi 5.1	✓	✓
VMware ESX 4.0.x	✓	
VMware ESX 4.1.x	✓	✓
Hyper-V 2008 R2	✓	✓

Cisco

Operating System	UCS Manager 2.0
Windows Server 2003	✓
Windows Server 2003 R2	✓
Windows Server 2008	✓
Windows Server 2008 R2	✓
Windows Server 2008 R2 SP1	✓
RedHat Enterprise Linux Server 5.x	✓
RedHat Enterprise Linux Server 6.x	✓
Suse Linux Enterprise Server 10	✓
Suse Linux Enterprise Server 11	✓
VMware ESXi 4.0.x	
VMware ESXi 4.1.x	Requires ESXi build 4.1 for Cisco build 348481
VMware ESXi 5.0.x	✓
VMware ESXi 5.1	✓
VMware ESX 4.0.x	
VMware ESX 4.1.x	
Hyper-V 2008 R2	✓

WMI Guest Agent Support

WMI queries are supported on the following operating systems:

- Windows Server 2003
- Windows Server 2003 R2
- Windows Server 2008
- Windows Server 2008 R2 SP1

Integration and Third-Party Support

Connection Brokers

- XenDesktop 4.0 (VMware only. vCAC VDI agent must be installed on a 32-bit host.)
- XenDesktop 5.0 SP1 (VMware and XenServer only.)
- XenDesktop 5.5 (VMware and XenServer only.)

Task Automation Engines

- VMware vCenter Orchestrator 5.1
- PowerShell 2.0

Locales

- US English
- UK English

High Availability

- Web farm configuration
- VMware Heartbeat

Upgrade

Only vCAC 4.5 instances can be upgraded to vCAC 5.1. To upgrade from vCAC 4.0, 4.0 SP1, 4.0 SP2, 4.1, or 4.1 SP1, first upgrade to 4.5 as described in the *DCAC 4.5 Installation Guide*.

Deprecated

Support for the following components and platforms has been removed in vCAC 5.1:

- Installing any vCAC components on Windows Server 2008 R1 SP2 or R2
- Installing vCAC Designer on Windows XP SP2
- Deploying the vCAC database on SQL Server 2008
- Browser support for Internet Explorer 6, Firefox 11.0, and Safari 5
- Citrix XenServer 5.5
- Citrix Provisioning Server 5.1.1.2950
- WMI agent support on Windows Server 2008 R2
- XenDesktop 5.0
- PowerShell 1.0