

A photograph of a modern office interior. In the center, a group of five people are seated around a long, dark wooden conference table. They are facing each other, some looking at laptops. The room has a high ceiling with exposed white beams and black pipes. Large windows in the background let in bright light. The floor is a polished, dark grey. The entire image is framed by a thick green border.

# Data Center Automation Suite Express

Software Version: 2016.01

## Compatibility Matrix

Document Release Date: January 2016

Software Release Date: January 2016



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# Embedded Product Support Compatibility Matrices

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**Note:** Platform support listed in the matrices applies to managed server targets only <sup>1</sup>

Product	Compatibility matrix
DCA Operations Portal for DCA virtual appliance	Provides access to pre-integrated SA and OO.
Server Automation for DCA Suite 2016.01	Refer to Managed Server Platforms, Virtualization, Satellite Platforms, Web Client Browser Support, Java Client Platforms, Cross-Product Compatibility, Addendum-Provisioning Feature in this document.
Operations Orchestration 10.22	<a href="https://softwaresupport.hpe.com/km/KM01288339">https://softwaresupport.hpe.com/km/KM01288339</a>

<sup>1</sup> Except for SA Satellite support. SA Satellite is not preinstalled in the DCA virtual appliance.

# DCA Virtual appliance Requirements

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## DCA requirements

- \* Virtual appliance deployment is supported through VMware vCenter (otherwise, the OVF parameters dialogue, which provides vital information for deployment, may not be displayed)
- \* Virtual appliance may be hosted on ESXi 5.1, 5.5, or 6.0
- \* A default deployed appliance has:
  - \* 8 CPUs
  - \* 32 GB RAM (in production environments, recommended memory is 32-48 GB)
  - \* 256 GB disk (thick/thin provisioning can be selected during deployment)
  - \* 2 network interfaces (at least one needs to be configured)
  - \* Other virtual hardware: default recommended options for the OS profile
  - \* Virtual machine version: 7<sup>#</sup>
- \* Virtual appliance synchronizes its time with the host it runs on through VMware Tools

<sup>#</sup> Version 7 is used by default for backwards compatibility. It can be upgraded to a newer version supported by the ESXi it runs on. For more details, see Virtual machine hardware versions ([http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1003746](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1003746)) and Upgrading a virtual machine to the latest hardware version (multiple versions) ([http://kb.vmware.com/selfservice/microsites/search.do?language=en\\_US&cmd=displayKC&externalId=1010675](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1010675))

# Server Automation Managed Server Support

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OS Vendor	Managed Platform <sup>2</sup>	Architecture	Versions Supported	Agent	OS Provisioning <sup>9</sup>	Patching <sup>1,8</sup>	Chef Integration <sup>11</sup>	Added in Release (before SA 10.20 if blank)	Notes
Canonical	Ubuntu Server 12.04	x86_64	GA	Y	OSBP	Full	Y		See footnote on YUM7
CentOS	CentOS 7	x86_64	GA	Y	OSBP	Extended	Y	Added in 10.20	See footnote on YUM7
	CentOS 6	x86_64	GA-6.5	Y	OSBP	Extended	Y		See footnote on YUM7
	CentOS 5	x86_64	5.3-5.10	Y	OSBP	Extended	Y		See footnote on YUM7
Microsoft	Windows Server 2012 R2 (Datacenter, Standard)	x86_64	GA	Y	OSBP	Full	N		See Windows Note 1

OS Vendor	Managed Platform <sup>2</sup>	Architecture	Versions Supported	Agent	OS Provisioning <sup>9</sup>	Patching <sup>1,8</sup>	Chef Integration <sup>11</sup>	Added in Release (before SA 10.20 if blank)	Notes
Microsoft	Windows Server 2012 (Datacenter, Standard, Foundation, Server Core, Essentials)	x86_64	GA	Y	OSBP	Full	Y		See Windows Note 1
Microsoft	Windows Server 2008 R2 (Standard, Enterprise, Datacenter, Web, Server Core)	x86_64	GA-SP1	Y	OSBP	Full	Y		See Windows Note 1
	Windows Server 2008 (Standard, Enterprise, Datacenter, Web, Server Core)	x86_64	GA-SP2	Y	OSBP	Full	Y		See Windows Note 1
Microsoft	Windows 8.1 (Enterprise, Pro)	x86_64	GA	Y	OSBP	Full	N	Added in 10.20	See Windows Note 1
	Windows 7 (Enterprise, Professional, Ultimate)	x86_64	GA	Y	OSBP	Full	N	Added in 10.20	See Windows Note 1
Novell	SuSE Linux Enterprise Server 12	x86_64	GA	Y	OSBP	Extended	Y <sup>12</sup>	Added in 10.21	See footnote on Zypper <sup>13</sup> Available as content for SA 10.20
	SuSE Linux Enterprise Server 11	x86_64	GA-SP3	Y	OSBP	Extended	Y <sup>12</sup>		See footnote on Zypper <sup>13</sup>

OS Vendor	Managed Platform <sup>2</sup>	Architecture	Versions Supported	Agent	OS Provisioning <sup>9</sup>	Patching <sup>1,8</sup>	Chef Integration <sup>11</sup>	Added in Release (before SA 10.20 if blank)	Notes
Oracle	Oracle Linux 7	x86_64	GA	Y	OSBP	Full	Y	Added in 10.20	See footnote on YUM <sup>7</sup>
	Oracle Linux 6	x86_64	GA-6.5	Y	OSBP	Full	Y		See footnote on YUM <sup>7</sup>
	Oracle Enterprise Linux 5	x86_64	5.1-5.10	Y	OSBP	Full	Y		See footnote on YUM <sup>7</sup>
Oracle	Solaris 11 <sup>4</sup>	x86_64	GA - 11.2	Y	OSBP	Full	Y	Added in 10.20	See Solaris Note 1
	Solaris 10 <sup>4</sup>	x86_64	U9-U11	Y	OSBP	Full	Y		See Solaris Note 1
			GA-U8	Y	OSBP	Full	Y		See Solaris Note 1
Red Hat	RHEL 7 Server	x86_64	GA	Y	OSBP	Full	Y	RHEL 7 added in 10.20	See footnote on YUM <sup>7</sup>
Red Hat	RHEL 6 Server	x86_64	GA-6.6	Y	OSBP	Full	Y	RHEL 6.6 added in 10.20	See footnote on YUM <sup>7</sup>
Red Hat	RHEL 6 Desktop - (Client and Workstation)	x86_64	GA	Y	OSBP,	Full	Y		See footnote on YUM <sup>7</sup>

Managed Server Platforms

OS Vendor	Managed Platform <sup>2</sup>	Architecture	Versions Supported	Agent	OS Provisioning <sup>9</sup>	Patching <sup>1,8</sup>	Chef Integration <sup>11</sup>	Added in Release (before SA 10.20 if blank)	Notes
Red Hat	RHEL 5 Server	x86_64	GA-5.11	Y	OSBP	Full	Y	RHEL 5.11 added in 10.20	See footnote on YUM7
Red Hat	RHEL 5 Desktop	x86_64	GA-5.3	Y	OSBP	Full	Y		See footnote on YUM <sup>7</sup>
VMware	ESXi 5.5	x86_64	GA	N	OSBP	N	N		
Vmware	ESXi 5.1	x86_64	GA	N	OSBP	N	N		"VMware ESXi 5.1, Patch ESXi510-201307401-BG: Updates esx-base and misc-drivers (2052144)" is required for use of ESXi Compliance feature
VMware	ESXi 5.0	x86_64	GA-U1	N	OSBP	N	N		
VMware	ESXi 4.1 Installable	x86_64	GA-U3	N	OSBP	N	N		

<sup>1</sup> Indicates server patching support. Options are:

- . Basic = simple patch remediation, but may not have full metadata (dependencies, supersedence, etc).
- . Extended = includes metadata support (dependencies, supersedence, etc.).
- . Full = includes integrated patch import from vendor. "N": no patching support is available



OS Vendor	Managed Platform <sup>2</sup>	Architecture	Versions Supported	Agent	OS Provisioning <sup>9</sup>	Patching <sup>1,8</sup>	Chef Integration <sup>11</sup>	Added in Release (before SA 10.20 if blank)	Notes
<sup>2</sup> The supported managed server platforms herein, are also supported in virtual machines when the virtual machine vendor also supports that version or release of the managed platform.									
<sup>3</sup> Virtualization support is on nPars, vPars 5.x, and Integrity VM 4.x servers only.									
<sup>4</sup> Guest-domain Solaris LDOMs are supported for server management, but without virtualization management and OS provisioning. The solution at this point does not have any support for creating, starting or stopping LDOMs.									
<sup>5</sup> Use OS-native installation managers (such as AIX NIM and HP-UX Ignite) to install the operating system, and use SA to install the SA Agents.									
<sup>6</sup> Citrix supports network boot only for Windows guests; therefore, only Windows OS provisioning is supported for XenServer guest VMs									
<sup>7</sup> On all marked platforms, SA Patching for Linux supports native YUM 3.0.1 or later.									
<sup>8</sup> SA does not support Source RPM packages on any platforms that supports RPM									
<sup>9</sup> Indicates OS Provisioning support. Options are: <ul style="list-style-type: none"><li>. OS Seq = OS Seq support</li><li>. OSBP = OS Build Plan support</li><li>. No OS Prov = no OS provisioning support on this platform.</li></ul>									
<sup>11</sup> SA supports the integration with Chef Solo 11.6.2-1 binaries									
<sup>12</sup> Chef integration is supported only starting with SLES 11 SP2									
<sup>13</sup> On all marked platforms, SA is leveraging Zypper for patching.									
<b>Solaris Note 1:</b> Requires Patches: SUNWadmc, SUNWcsl, SUNWcslr (if available for the version), SUNWcsu, SUNWesu, SUNWlibms, SUNlibmsr (if available for the version), SUNWswmt									
<b>Windows Note 1:</b> Patching requires MSXML 3.0 (or later), IE 6.0 (or later), Windows Installer 3.1, Windows Update/Automatic Update should be set to Never Check for Updates/Turn off Automatic Updates.									
<b>Platform Support on HPLN:</b> Additional platform support may be added between releases and delivered as content via HP Live Network:									
Deprecation Note: For support deprecation and removal announcements, see the DCA Suite Release Notes.									

# Server Automation Virtualization Support

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OS Vendor	Hypervisor/ Virtualization Service	Architecture	OS Version	Actions Supported on Virtual Servers	Added in Release (before SA 10.20 if blank)	Notes
Microsoft <sup>1,2,3,4</sup>	SCVMM Server 2008 R2		See Microsoft documentation for supported OS	Create, Modify, Migrate, Convert to VM Template, Delete, Power On, Power Off, Pause, Suspend, Shut down guest for VMs  Deploy VM from VM Template and Delete VM Templates		SCVMM integration only supports Hyper-V hypervisors. Please refer to Microsoft SCVMM documentation for supported Hyper- V versions.
Oracle	Solaris 11 Global Zone	x86_64	Solaris 11	Create, Modify, Start, Stop, Remove		
	Solaris 10 Global Zone	x86_64	Solaris 10	Create, Modify, Start, Stop, Remove		

OS Vendor	Hypervisor/ Virtualization Service	Architecture	OS Version	Actions Supported on Virtual Servers	Added in Release (before SA 10.20 if blank)	Notes
VMware <sup>1,2,4</sup>	vCenter 6.0 vCenter 5.5 vCenter 5.1 vCenter 5.0 vCenter 4.1 vCenter 4.0		See VMware documentation for supported OS <sup>5</sup>	Create, Modify, Migrate, Clone, Convert to VM Template, Delete, Power On, Power Off, Suspend, Reset, Shut down guest, Restart guest for VMs  Deploy VM from VM Template and Delete VM Templates	vCenter 6.0 qualified post- release	Please refer to VMware Vcenter documentation for supported Hypervisors

Please refer to the <i>Managed Server Platforms</i> matrix for SA features supported on Hypervisors running as managed servers.
<sup>1</sup> UAPI support for VMware ESX/ESXi and Microsoft HyperV servers are removed. Please refer to the release notes for details.
<sup>2</sup> New UAPI support for VMware vCenter and Microsoft SCVMM is available. Please refer to API documentation for more details.
<sup>3</sup> Support for SCVMM requires use of Powershell 2.0. Other Powershell versions are not supported.
<sup>4</sup> Support for vCenter and SCVMM is limited to features as documented in the SA User Guide. Please refer to the User Guide for more details.
<sup>5</sup> vCenter Server Appliance (VCSA) 5.5 is not supported.

Deprecation Note: For support deprecation and removal announcements, see the DCA Suite Release Notes.

# Server Automation Satellite Server Support

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OS Vendor	Core Platform	Architecture	Versions Supported	Local File System	Added in Release (before SA 10.20 if blank)	Notes
CentOS	CentOS 6	x86_64	U5 <sup>5</sup>	ext4		
Novell	SuSE Linux Enterprise Server (SLES) 11	x86_64	SP2-SP3 <sup>5</sup>	ext4		
	SuSE Linux Enterprise Server (SLES) 10 <sup>4</sup>	x86_64	SP2-SP4	reiserfs		
Oracle	Oracle Enterprise Linux (OEL) 6 <sup>3</sup>	x86_64	U3-U5 <sup>5</sup>	ext4		
Red Hat	Red Hat Enterprise Linux (RHEL) 6 Server	x86_64	U3-U5 <sup>5</sup>	ext4,vxfs <sup>2</sup>		

OS Vendor	Core Platform	Architecture	Versions Supported	Local File System	Added in Release (before SA 10.20 if blank)	Notes
Red Hat	Red Hat Enterprise Linux (RHEL) 5 Server <sup>4, 6</sup>	x86_64	U2-U10	ext3,vxfs <sup>1</sup>		
<sup>1</sup> This requires Veritas Storage Foundation Basic 5.0 MP3 RP2 or later.						
<sup>2</sup> This requires Veritas Storage Foundation Basic 6.01 or later.						
<sup>3</sup> Supported with the RHEL compatible kernel only. The unbreakable kernel is not supported.						
<sup>4</sup> Supported with IPv4 network configuration only. Does not support managing IPv6 servers.						
<sup>5</sup> Managing IPv6 servers is supported Starting with SLES SP3, RHEL, CentOS, and OEL update 5						
<sup>6</sup> <b><u>IMPORTANT Note about Red Hat 5.9, 6.3 and 6.4:</u></b> If you are running a default RedHat 5.9, 6.3, 6.4 kernel, you must upgrade the kernel to a version that no longer has an issue with the SO_REUSEADDR socket semantics. This can be accomplished by installing the latest kernel from the RedHat errata advisory, or installing the next release of RedHat Linux, as described below:						
• For RHEL 5.9, perform one of the following actions:						
• use the latest version kernel, 2.6.18-348.16.1 or above. • or upgrade to RHEL 5.10			See Red Hat errata:		<a href="http://rhn.redhat.com/errata/RHSA-2013-1166.html">http://rhn.redhat.com/errata/RHSA-2013-1166.html</a>	
• For RHEL 6.3 or 6.4, perform one of the following actions:						
• use the latest version kernel, 2.6.32-358.18.1 or above. • or upgrade to RHEL 6.5.			See Red Hat errata:		<a href="http://rhn.redhat.com/errata/RHSA-2013-1173.html">http://rhn.redhat.com/errata/RHSA-2013-1173.html</a>	
<b><u>General Notes</u></b>						
Antivirus software is not supported on SA cores.						
IPMP (IP Multi-Pathing) and NIC bonding are supported on core and satellite servers.						
SAN (MPIO) is supported.						
Deprecation Note: For support deprecation and removal announcements, see the DCA Suite Release Notes.						

# Server Automation Web Client Support

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Browser	Version	SA Compatibility <sup>1</sup>	Internal Notes (for HP Internal Use Only)	Notes
Chrome	6 or later	SA 10.0 or later		
Firefox	3.6 or later	SA 9.10 or later		
Internet Explorer	8, 9, or 10	SA 9.10 or later		
	11	SA 10.10 or later		
Opera	11 or later	SA 10.0 or later		
Safari	5 or later	SA 10.0 or later		

<sup>1</sup> See the *User Guide: Application Deployment Manager* and the *User Guide: Database and Middleware Automation* for a list of browsers recommended for those components.

### Browser Configuration Requirements

- To use the SA Web Client, your browser must be configured in the following manner:
- . The browser must support SSL and should provide 128-bit encryption (recommended).
  - . The browser must accept cookies and be able to use Java.
  - . Using a pop-up blocker might prevent some functions from working correctly. Either disable the pop-up blocker or use the supported browser's native pop-up blocking function instead of a third-party product.

Deprecation Note: For support deprecation and removal announcements, see the DCA Suite Release Notes.

# Server Automation Java Client Support

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Operating System	Architecture	Version	SA Compatibility	Notes
Windows Server 2012	x86_64	GA	SA 10.1 or later	
Windows Server 2008	x86_32 and x86_64	GA-SP2	SA 10.0 or later	
Windows Server 2003	x86_32	SP1-SP2	SA 9.10 or later	
Windows Vista	x86_32 and x86_64	SP1-SP2	SA 9.10 or later	
Windows 7	x86_32 and x86_64	SP1	SA 10.0 or later	
Windows 8	x86_32 and x86_64	GA	SA 10.0 or later	

- The minimum system requirements to run the SA Client are as follows:
- 1 GB of DRAM.
  - 0.5 GB of disk space each for the SA Client and the SA Client Launcher.
  - If using the SA Client to connect to a core with a residential DSL connection, a minimum 384 Kbps connection is recommended.
  - You must be logged in as a user with sufficient permissions to install software on the computer. (You do not need to be an administrator user to install the launcher).
  - Ensure that there are no running instances of the Launcher (if necessary, use the Windows Task Manager and kill all instances of javaw.exe).
  - If you are upgrading, you must uninstall the previous SA Client Launcher version (using the Windows uninstall utility), and install the latest version.

Deprecation Note: For support deprecation and removal announcements, see the DCA Suite Release Notes.

# Server Automation Cross-Product Compatibility

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HP Server Automation	HP Cloud Service Automation <sup>1</sup>	HP Live Network connector	HP Network Automation	HP Operation Orchestration	HP Storage Essentials <sup>7</sup>	HP Universal CMDB <sup>8</sup>	Notes
10.2	4.5	3.4 or higher	9.11 <sup>2</sup> , 9.22 <sup>2</sup> 10.00	9.0 <sup>3</sup> , 10.0 <sup>4</sup> , 10.10 <sup>5</sup> 10.20 <sup>6</sup>	9.4.0, 9.4.1, 9.5, 9.5.1	9.05 Content Pack 10 CUP 6 or higher, 10.01 Content Pack 12, 10.10	

<sup>1</sup> HP Cloud Service Automation is enabled via the HP CSA-HP DCAA Integration path described in the DCAA documentation.

<sup>2</sup> HP Network Automation versions 9.11 and 9.22 are supported only when running on Java 7. Contact NA team to apply the Java 7 hotfix.

<sup>3</sup> Support for HP Operation Orchestration 9.x is enabled by OO-SA 9.00.10 content

<sup>4</sup> Support for HP Operation Orchestration 10.0 is enabled by OO-SA 1.2.0 content

<sup>5</sup> Support for HP Operation Orchestration 10.10 is enabled by OO-SA 1.2.0 content

<sup>6</sup> Support for HP Operation Orchestration 10.20 is enabled by OO-SA 1.2.0 content

<sup>7</sup> SA is compatible with Storage Essentials via the SE Connector.

<sup>8</sup> uCMDB = HP Universal Configuration Management Database; CP = uCMDB Content Pack; CUP = uCMDB Cumulative Update Package

Deprecation Note: For support deprecation and removal announcements, see the DCA Suite Release Notes.



# Server Automation Provisioning Feature Support

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## Build Plan Feature Support

Platform Family	Platform Version	Patch	Architecture	Network Boot	DHCPless Deployment	Scripted Install	Image Capture	Image Deploy	Network Personalization	Media Protocols	ICsp(*) Content
Linux	CentOS Linux 5	3-10	X86_64	yes	Linux ISO	yes <sup>2</sup>	no	no	yes	nfs, http	no
	CentOS Linux 6	0-5	X86_64	yes	Linux ISO	yes <sup>2</sup>	no	no	yes	nfs, http	no
	Oracle Enterprise Linux 5	1-10	X86_64	yes	Linux ISO	yes <sup>2</sup>	no	no	yes	nfs, http	no
	Oracle Enterprise Linux 6	0-5	X86_64	yes	Linux ISO	yes <sup>2</sup>	no	no	yes	nfs, http	no
	Red Hat Enterprise Linux 5	0-11	X86_64	yes	Linux ISO	yes <sup>2</sup>	no	no	yes	nfs, http	yes
	Red Hat Enterprise Linux 6	0-6	X86_64	yes	Linux ISO	yes <sup>2</sup>	no	no	yes	nfs, http	no

Platform Family	Platform Version	Patch	Architecture	Build Plan Feature Support							
				Network Boot	DHCPless Deployment	Scripted Install	Image Capture	Image Deploy	Network Personalization	Media Protocols	ICsp(*) Content
Linux	Red Hat Enterprise Linux 7	0	X86_64	yes	Linux ISO	yes	no	no	yes	nfs, http	no
	SuSE Enterprise Linux 11	SP0-SP3	X86_64	yes	Linux ISO	yes	no	no	yes	nfs, http	no
	Ubuntu 12.04	0-5	X86_64	yes	Linux ISO	yes	no	no	yes	nfs, http	no
Oracle Solaris	Solaris 10	GA-u11	X86_64	yes	no	yes <sup>2</sup>	no	no	no	nfs	no
	Solaris 11	u0-u2	X86_64	yes	no	yes <sup>2</sup>	no	no	no	http	no
Vmware ESXi	ESXi 4.1	U0-U3	X86_64	yes	Linux ISO	yes	no	no	Limited <sup>1</sup>	nfs, http, https	no
	ESXi 5.1	U0-U2	X86_64	yes	Linux ISO	yes	no	no	Limited <sup>1</sup>	nfs, http, https, smb	yes
	ESXi 5.5	U0-U1	X86_64	yes	Linux ISO	yes	no	no	Limited <sup>1</sup>	nfs, http, https, smb	yes
	ESXi 6.0	U0-U1	X86_64	yes	Linux ISO	yes	no	no	Limited <sup>1</sup>	nfs, http, https, smb	yes
	Windows Server 2008	all	X86_64	yes	Windows ISO	yes	yes	yes	yes	smb	yes

				Build Plan Feature Support							
Platform Family	Platform Version	Patch	Architecture	Network Boot	DHCPless Deployment	Scripted Install	Image Capture	Image Deploy	Network Personalization	Media Protocols	ICsp(*) Content
Windows	Windows Server 2008 R2	all	X86_64	yes	Windows ISO	yes	yes	yes	yes	smb	yes
	Windows Server 2012	all	X86_64	yes	Windows ISO	yes	yes	yes	yes	smb	yes
	Windows Server 2012 R2	all	X86_64	yes	Windows ISO	yes	yes	yes	yes	smb	yes
	Windows 7	all	X86_64	yes	Windows ISO	yes	yes	yes	yes	smb	no
	Windows 8.1	all	X86_64	yes	Windows ISO	yes	yes	yes	yes	smb	no
¹ Not post install, since ESXi is agent-less. Network configuration is install time. Supports setting a single interface on a single device.											
² Supported only over IPv4. IPv6 deployment not supported.											
(*) ICsp : HPE Insight Control server provisioning											
Deprecation Note: For support deprecation and removal announcements, see the DCA Suite Release Notes.											

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