



# Server Automation

Software Version: 10.5x

## Support and Compatibility Matrix

Document Release Date: July 2017

Software Release Date: July 2017

  
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# Server Automation Managed Server Support

Server Automation (10.50 - 10.51)

July 2017

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 Note: Service releases are implicitly supported by HPESA releases that support the original OS version. HPE Software support for any OS, listed or not, ends when the OS Vendor ends support for that platform.  
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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 10.50 if blank)	Notes
Canonical	Ubuntu Server 16.04	x86_64	GA	Y	OSBP	N/A	N	N/A	See footnotes on Marketplace <sup>19</sup>
	Ubuntu Server 12.04	x86_32 x86_64	GA	Y	OSBP	Full	Y		
	Ubuntu Server 14.04	x86_32 x86_64	GA	Y	OSBP	Full	Y		
CentOS	CentOS 7	x86_64	GA - U2	Y	OSBP	Extended	Y		See footnote on YUM <sup>7</sup>
	CentOS 6	x86_32 x86_64	GA-6.8	Y	OSBP, OS Seq <sup>10</sup>	Extended	Y		See footnote on YUM <sup>7</sup>
	CentOS 5	x86_32 x86_64	5.3-5.11	Y	OSBP, OS Seq <sup>10</sup>	Extended	Y		See footnote on YUM <sup>7</sup>

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Citrix	XenServer 6	x86_32 x86_64	GA, 6.0.2, 6.1.0, 6.2.0	Y	OS Seq	N	N		See footnote on YUM <sup>7</sup> See note for provisioning on XenServer guest VM <sup>6</sup>
	XenServer 5	x86_32 x86_64	5.5, 5.6, 5.6 FP1, 5.6 SP2	Y	OS Seq <sup>10</sup>	N	N		See footnote on YUM <sup>7</sup> See note for provisioning on XenServer guest VM <sup>6</sup>
HP	HP-UX 11i v3 (11.31) <sup>3</sup>	PA-RISC 2.0	All	Y	No OS Prov	Extended	N		Ignite OS Provisioning only <sup>5</sup>
		IA-64	All	Y	OS Seq	Extended	N		OS provisioning via Golden images
	HP-UX 11i v2 (11.23) <sup>3</sup>	PA-RISC 2.0	All	Y	No OS Prov	Extended	N		Ignite OS Provisioning only <sup>5</sup>
		IA-64	All	Y	OS Seq	Extended	N		OS provisioning via Golden images
	HP-UX 11i v1 (11.11) <sup>3</sup>	PA-RISC 2.0	All	Y	No OS Prov	Extended	N		Ignite OS Provisioning only <sup>5</sup>
IBM	AIX 7.2	Power	All	Y	No OS Prov	Basic	N	N/A	See footnotes on Marketplace <sup>19</sup> NIM OS Provisioning only <sup>5</sup>
	AIX 7.1	Power	All	Y	No OS Prov	Basic	N		NIM OS Provisioning only <sup>5</sup>
	AIX 6.1	Power	All	Y	No OS Prov	Basic	N		NIM OS Provisioning only <sup>5</sup>
	VIOS 2.2	Power	2.2.3.x	Y	No OS Prov	N	N		

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Microsoft	Hyper-V Server 2012 R2	x86_64	GA	Y	OSBP	Full <sup>18</sup>	N	10.50	See Windows Note 1
Microsoft	Windows Server 2016 (Datacenter, Standard, Essentials)	x86_64	GA	Y	OSBP	Full <sup>18</sup>	N	10.51	See Windows Note 1 See footnotes on Marketplace <sup>19</sup>
	Windows Server 2012 R2 (Datacenter, Standard)	x86_64	GA	Y	OSBP	Full <sup>18</sup>	N		See Windows Note 1
	Windows Server 2012 (Datacenter, Standard, Foundation, Server Core, Essentials)	x86_64	GA	Y	OSBP, OS Seq <sup>10</sup>	Full <sup>18</sup>	Y		See Windows Note 1
Microsoft	Windows Server 2008 R2 for Itanium Based-Systems	IA-64	GA-SP1	Y	OS Seq <sup>10</sup>	Full <sup>18</sup>	Y		See Windows Note 1
	Windows Server 2008 R2 (Standard, Enterprise, Datacenter, Web, Server Core)	x86_64	GA-SP1	Y	OSBP, OS Seq <sup>10</sup>	Full <sup>18</sup>	Y		See Windows Note 1
	Windows Server 2008 (Standard, Enterprise, Datacenter, Web, Server Core)	x86_32 x86_64	GA-SP2	Y	OSBP, OS Seq <sup>10</sup>	Full <sup>18</sup>	Y		See Windows Note 1

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Microsoft	Windows 10 (Enterprise)	x86_64	GA	Y	OSBP	Full <sup>18</sup>	Y		
	Windows 8.1 (Enterprise, Pro)	x86_64	GA	Y	OSBP	Full <sup>18</sup>	N		See Windows Note 1
	Windows 7 (Enterprise, Professional, Ultimate)	x86_64	GA	Y	OSBP	Full <sup>18</sup>	N		See Windows Note 1
Novell	SUSE Linux Enterprise Server 12	x86_64	GA-SP1	Y	OSBP	Extended <sup>15</sup>	N		See footnote on Zypper <sup>13</sup>
		zSeries	GA - SP2	Y	No OS Prov	Extended <sup>15</sup>	N	N/A	See footnotes on Marketplace <sup>19</sup> See footnote on Zypper <sup>13</sup>
	SUSE Linux Enterprise Server 11	x86_32 x86_64	GA-SP4	Y	OSBP, OS Seq <sup>10</sup>	Extended <sup>15</sup>	Y <sup>12</sup>		See footnote on Zypper <sup>13</sup>
		zSeries	SP1-SP3	Y	No OS Prov	Extended	N		See footnote on Zypper <sup>13</sup>
		power	GA-SP3	Y	OS Seq	Extended	N		See footnote on Zypper <sup>13</sup>
	SUSE Linux Enterprise Server 10	power	GA-SP4	Y	OS Seq <sup>10</sup>	Extended	N		See footnote on YUM <sup>7</sup>
		zSeries	GA-SP4	Y	No OS Prov	Extended	N		See footnote on YUM <sup>7</sup>
	SUSE Linux Enterprise Server 10	x86_32 x86_64	SP4	Y	OS Seq <sup>10</sup>	Extended <sup>15</sup>	N		See footnote on YUM <sup>7</sup>
			GA-SP3	Y	OS Seq <sup>10</sup>	Extended <sup>15</sup>	N		See footnote on YUM <sup>7</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 10.50 if blank)	Notes
Novell	Open Enterprise Server 11	x86_64	GA-SP1	Y	OS Seq	Extended <sup>15</sup>	N		
	Open Enterprise Server 2	x86_32 x86_64	SP2-SP3	Y	OS Seq <sup>10</sup>	Extended <sup>15</sup>	N		
Oracle	Oracle Linux 7	x86_64	GA - U2	Y	OSBP	Full	Y		See footnote on YUM <sup>7</sup>
Oracle	Oracle Linux 6	x86_32 x86_64	GA-6.8	Y	OSBP, OS Seq <sup>10</sup>	Full	Y		See footnote on YUM <sup>7</sup>
	Oracle Enterprise Linux 5	x86_32 x86_64	5.1-5.11	Y	OSBP, OS Seq <sup>10</sup>	Full	Y		See footnote on YUM <sup>7</sup>
Oracle	Solaris 11 <sup>4</sup>	SPARC - Sun4u SPARC- Sun4v (Niagara)	GA - 11.2	Y	OS Seq	Full <sup>16</sup>	Y		See Solaris Note 1
Oracle	Solaris 11 <sup>4</sup>	x86_64	GA - 11.2	Y	OSBP, OS Seq <sup>10</sup>	Full <sup>16</sup>	Y		See Solaris Note 1
Oracle	Solaris 10 <sup>4</sup>	SPARC - Sun4u SPARC- Sun4v (Niagara)	U9-U11	Y	OS Seq	Full	Y		See Solaris Note 1
			GA-U8	Y	OS Seq	Full	Y		See Solaris Note 1
		x86_32 x86_64	U9-U11	Y	OSBP, OS Seq <sup>10</sup>	Full	Y		See Solaris Note 1
			GA-U8	Y	OSBP, OS Seq <sup>10</sup>	Full	Y		See Solaris 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 10.50 if blank)	Notes
Red Hat	RHEL 7 Server	x86_64	GA - U2	Y	OSBP	Full <sup>14</sup>	Y		See footnote on YUM <sup>7</sup>
		HPC	GA - 7.3	Y	OSBP	Full <sup>14</sup>	N	N/A	See footnotes on Marketplace <sup>19</sup> See footnote on YUM <sup>7</sup>
		zSeries	GA - U3	Y	No OS Prov	Full <sup>14</sup>	N	N/A	See footnotes on Marketplace <sup>19</sup> See footnote on YUM <sup>7</sup>
		Power	GA - U3	Y	No OS Prov	Full <sup>14</sup>	N	N/A	See footnotes on Marketplace <sup>19</sup> See footnote on YUM <sup>7</sup>
Red Hat	RHEL 7 Desktop (Client and Workstation)	x86_64	GA	Y	OSBP	Full <sup>14</sup>	Y		See footnote on YUM <sup>7</sup>
Red Hat	RHEL 6 Server	x86_32 x86_64	GA-6.8	Y	OSBP, OS Seq <sup>10</sup>	Full <sup>14</sup>	Y		See footnote on YUM <sup>7</sup>
		zSeries	GA-6.4	Y	No OS Prov	Full <sup>14</sup>	N		See footnote on YUM <sup>7</sup>
		power	GA-6.4	Y	OS Seq	Full <sup>14</sup>	N		See footnote on YUM <sup>7</sup>
Red Hat	RHEL 6 Desktop - (Client and Workstation)	x86_32 x86_64	GA	Y	OSBP, OS Seq <sup>10</sup>	Full <sup>14</sup>	Y		See footnote on YUM <sup>7</sup>
Red Hat	RHEL 5 Server	x86_32 x86_64	GA-5.11	Y	OSBP, OS Seq <sup>10</sup>	Full <sup>14</sup>	Y		See footnote on YUM <sup>7</sup>
		IA-64	GA-5.9	Y	OS Seq <sup>10</sup>	Full <sup>14</sup>	N		See footnote on YUM <sup>7</sup>
		power	5.2-5.9	Y	OS Seq	Full <sup>14</sup>	N		See footnote on YUM <sup>7</sup>
		zSeries	5.4-5.9	Y	No OS Prov	Full <sup>14</sup>	N		See footnote on YUM <sup>7</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 10.50 if blank)	Notes
Red Hat	RHEL 5 Desktop	x86_32 x86_64	GA-5.3	Y	OSBP, OS Seq <sup>10</sup>	Full <sup>14</sup>	Y		See footnote on YUM <sup>7</sup>
VMware <sup>17</sup>	ESXi 6.5	x86_64	GA	N	OSBP	N	N	N/A	See footnotes on Marketplace <sup>19</sup>
	ESXi 6.0	x86_64	GA	N	OSBP	N	N		See footnotes on Marketplace <sup>19</sup>
VMware	ESXi 5.5	x86_64	GA	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

<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.

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 10.50 if blank)	Notes
<sup>9</sup> Indicates OS Provisioning support. Options are: . OS Seq = OS Seq support . OSBP = OS Build Plan support . No OS Prov = no OS provisioning support on this platform									
<sup>10</sup> OS Sequence Provisioning is deprecated for this managed server platform.									
<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.									
<sup>14</sup> Red Hat patch import tool integrates with Red Hat Subscription Management, RHN Classic, Red Hat Satellite 5.7, and Red Hat Satellite 6.2.									
<sup>15</sup> SA offers a SUSE Manager Import tool that integrates with SUSE Manager 2.1 and SUSE Manager 3.0.									
<sup>16</sup> An additional Solaris 11 managed server is needed for running the native Solaris 11 import tools. See the SA 10.50 User Guide for details.									
<sup>17</sup> ESXi compliance feature is supported for VMware ESXi 5.X, 6.0.									
<sup>18</sup> SA integrates with Windows Server Update Services (WSUS). The SA WSUS Web Service can be deployed on IIS version 7.0 till 10.0 and can work with WSUS version 3.0 SP2 till 10.0. SA WSUS Web Service is working with .NET Framework 4.0 and above.									
<sup>19</sup> Provided as downloadable platform content.									

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 10.50 if blank)	Notes
<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>Windows Note 2:</b> For SA 10.50, the platform is available as content from HPE Live Network.									
<b>Platform Support on marketplace:</b>									
<b>Additional platform support may be added between releases and delivered as content via:</b>							<a href="#">HPE Marketplace</a>		
<b>Deprecation Note:</b> For support deprecation and removal announcements, see:							<a href="#">SA Release Notes</a>		

# Server Automation Virtualization Support

Server Automation (10.50 - 10.51)

July 2017

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OS Vendor	Hypervisor/ Virtualization Service	Architecture	OS Version	Actions Supported on Virtual Servers	Added in Release (before SA 10.50 if blank)	Notes
HP	HPVM	Integrity IA-64	HP-UX 11iv3	Create, Modify, Delete, Start, Halt, and Shutdown  Create, Modify, Delete vSwitches  Configure VLAN		
	vPars	Integrity IA-64	HP-UX 11iv3	Create, Modify, Delete, Start, Halt, Shutdown		
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.

OS Vendor	Hypervisor/ Virtualization Service	Architecture	OS Version	Actions Supported on Virtual Servers	Added in Release (before SA 10.50 if blank)	Notes
Oracle	Solaris 11 Global Zone	Sparc x86_32 x86_64	Solaris 11	Create, Modify, Start, Stop, Remove		
Oracle	Solaris 10 Global Zone	Sparc x86_32 x86_64	Solaris 10	Create, Modify, Start, Stop, Remove		
VMware <sup>1,2,4</sup>	vCenter 6.0 vCenter 5.5 vCenter 5.1 vCenter 5.0		See VMware documentation for supported OS	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		Please refer to VMware Vcenter documentation for supported Hypervisors
OpenStack	Grizzly Havana Icehouse		See OpenStack documentation for supported OS	Discovery		Please refer to OpenStack documentation for supported Hypervisors

OS Vendor	Hypervisor/ Virtualization Service	Architecture	OS Version	Actions Supported on Virtual Servers	Added in Release (before SA 10.50 if blank)	Notes
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 SA 10.51 Release Notes for details.						
<sup>2</sup> New UAPI support for VMware vCenter and Microsoft SCVMM is available.						
<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 10.51 User Guide.						
<b>Deprecation Note:</b> For support deprecation and removal announcements, see:				<a href="#">SA Release Notes</a>		

# Server Automation Core and Satellite Server Support

Server Automation (10.50 - 10.51)

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OS Vendor	Core Platform	Architecture	Versions Supported	Local File System	Added in Release (before SA 10.50 if blank)	Notes
Novell	SUSE Linux Enterprise Server (SLES) 11	x86_64	SP2-SP4 <sup>(5)</sup>	ext4		See platform note 1
Oracle	Oracle Enterprise Linux (OEL) 6 <sup>(3)</sup>	x86_64	U3-U8 <sup>(5)</sup>	ext4		See platform note 1
Red Hat	Red Hat Enterprise Linux (RHEL) 7 Server	x86_64	GA-U2 <sup>(7)</sup>	ext4,vxfs <sup>(2)</sup>		See platform notes 1 and 2
Red Hat	Red Hat Enterprise Linux (RHEL) 6 Server	x86_64	U3-U8 <sup>(5)</sup>	ext4,vxfs <sup>(2)</sup>		See platform notes 1 and 2
Red Hat	Red Hat Enterprise Linux (RHEL) 5 Server <sup>(4), (6)</sup>	x86_64	U2-U11	ext3,vxfs <sup>(1)</sup>		See platform notes 1 and 2

<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>IMPORTANT Note about Red Hat 5.9, 6.3 and 6.4:</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:	
<ul style="list-style-type: none"> <li>For RHEL 5.9, perform one of the following actions: <ul style="list-style-type: none"> <li>use the latest version kernel, 2.6.18-348.16.1 or above.</li> <li>or upgrade to RHEL 5.10</li> </ul> </li> </ul>	See: <a href="#">Red Hat errata</a>
<ul style="list-style-type: none"> <li>For RHEL 6.3 or 6.4, perform one of the following actions: <ul style="list-style-type: none"> <li>use the latest version kernel, 2.6.32-358.18.1 or above.</li> <li>or upgrade to RHEL 6.5.</li> </ul> </li> </ul>	See: <a href="#">Red Hat errata</a>
<sup>7</sup> On RHEL 7.2 you must upgrade systemd package to at least version 219-19.el7_2.4, otherwise the core services will not start automatically upon reboot.	See: <a href="#">Red Hat errata</a>



**Platform Notes**

Note 1 - Please see this OS under the Managed Server Platform Support. Core servers require SA agents and the same caveats from managed servers apply to core servers as well.

Note 2 - SA cores running on VMware ESX VMs are supported when specific requirements are met. For requirements, see:

[Install Guide](#)

**General Notes**

Antivirus software should not be installed on the server with Core and Satellites Components.

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:

[SA Release Notes](#)

# Server Automation Core Database Support

Server Automation (10.50 -10.51)

July 2017

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Oracle RDBMS Editions	Supported DB Versions <sup>2</sup>	Supported OS/ Architecture	Notes
Enterprise, Standard, Standard Edition One	11.2.0.2, 11.2.0.3, 11.2.0.4, 12.1.0.1, 12.1.0.2	As indicated in table below	<ul style="list-style-type: none"> <li>. Oracle RAC supports Remote DB Install only.</li> <li>. 11.2.0.3.7 is recommended to fix Oracle issues.</li> <li>. Oracle 11.2.0.2 and 11.2.0.3 require patch 13369579 to fix ORA-00600 issues.</li> <li>. Oracle's Premier Support for Oracle Database 11gR1 (11.1) ended on 8/31/2012.</li> </ul>
Oracle RAC	11.2.0.2, 11.2.0.3, 11.2.0.4, 12.1.0.1, 12.1.0.2	RHEL 5 and 6 base server (x86_64) <sup>1</sup>	<ul style="list-style-type: none"> <li>. Oracle RAC supports Remote DB Install only.</li> <li>. 11.2.0.3.7 is recommended to fix Oracle issues.</li> <li>. Oracle 11.2.0.2 and 11.2.0.3 require patch 13369579 to fix ORA-00600 issues.</li> <li>. Oracle's Premier Support for Oracle Database 11gR1 (11.1) ended on 8/31/2012.</li> </ul>

Operating Systems/ Architecture	OS Versions <sup>2</sup>	Supported Database Install (Local / Remote DB) <sup>3</sup>	Added in Release (before SA 10.5 if blank)	Notes
HP-UX Itanium	HP-UX 11iv3 (11.31)	Remote only		
IBM AIX on POWER Systems (64-bit)	AIX 5.3	Remote only		
	AIX 6.1			
	AIX 7.1			
IBM Linux on System z	SUSE Linux (SLES) 10 and 11	Remote only		
	Red Hat Enterprise Linux (RHEL) 5			
Linux x86_64	Oracle Linux 4, 5 and 6	Remote only		
	Red Hat Enterprise Linux (RHEL) 5 and 6	Local and Remote		
	Red Hat Enterprise Linux (RHEL) 7			Red Hat Enterprise Linux 7 is supported on Linux x86-64 systems only from Oracle Database 12c Release 1 (12.1.0.2)
	SUSE Linux (SLES) 10 and 11			
Oracle Solaris on SPARC (64-bit)	Solaris 10		Remote only	
	Solaris 11			Supported only for Oracle 11.2.0.3

Operating Systems/ Architecture	OS Versions <sup>2</sup>	Supported Database Install (Local / Remote DB) <sup>3</sup>	Added in Release (before SA 10.5 if blank)	Notes
<sup>1</sup> SELinux 'permissive' mode is supported.				
<sup>2</sup> This matrix does not describe Oracle RDBMS support for specific operating system (OS) versions; it only describes the RDBMS versions and the OS versions supported by the SA Core Database. For Oracle RDBMS certification of OS version compatibility, refer to Oracle's RDBMS Support Matrix documentation.				
<sup>3</sup> Local = a database that is installed on the same server as other SA components. Remote = a database that is installed on a server other than SA servers.				
<p><b>Database Upgrade Note:</b>            Please see Oracle documentation for Oracle database upgrade procedures. See the SA 10.51 SA Install Guide for information about required database configuration for use with SA. To download SA documentation from the HPESW Software Support Online (SSO) portal, click the one of the following links and login with your HPE Passport:</p> <p><a href="#">SA 10.51 Install Guide</a></p> <p><a href="#">SA 10.51 Release Notes</a> (Always see the SA Release Notes for any additional release-specific caveats.)</p>				
<p><b>Deprecation Note:</b> For support deprecation and removal announcements, see: <a href="#">SA Release Notes</a></p>				

# Server Automation Web Client Browser Support

Server Automation (10.50 - 10.51)

July 2017

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Last Modified: July 04, 2017

[Hewlett Packard Enterprise Software Support Online](#)

This matrix does not contain all configuration and resource requirements. For more information, download the Server Automation Release Notes for this release from Hewlett Packard Enterprise Software Support Online. Note: Service releases are implicitly supported by SA releases that support the original OS version. HPE Software support for any OS, listed or not, ends when the OS Vendor ends support for that platform.

For further explanation of the SA platform support policy, see the SA Platform Support Statement enclosed in this document.

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Browser	Version	SA Compatibility <sup>1</sup>	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.

**Deprecation Note:** Starting with SA 10.23, SA Web Client is only used to download the SA Client Launcher.

# Server Automation Java Client Support

Server Automation (10.50 - 10.51)

July 2017

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Operating System	Architecture	Version	SA Compatibility	Notes
Windows Server 2016	x86_64	GA	SA 10.51 or later	
Windows Server 2012 R2	x86_64	GA	SA 10.1 or later	
Windows Server 2012	x86_64	GA	SA 10.1 or later	
Windows Server 2008 R2	x86_64	SP1	SA 10.0 or later	
Windows 10	x86_32 and x86_64	GA	SA 10.5 or later	
Windows 7	x86_32 and x86_64	SP1	SA 10.0 or later	
Windows 8.x	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).
- If you are upgrading, you must uninstall the previous SA Client Launcher version (using the Windows uninstall utility), and install the latest version.

# Server Automation Cross-Product Compatibility

Server Automation (10.50 - 10.51)

July 2017

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 Note: Service releases are implicitly supported by SA releases that support the original OS version. HPE Software support for any OS, listed or not, ends when the OS Vendor ends support for that platform.  
 For further explanation of the SA platform support policy, see the SA Platform Support Statement enclosed in this document.

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HPE Server Automation	HPE Operations Bridge Reporter <sup>1</sup>	HPE Live Network connector	HPE Network Automation	HPE Operation Orchestration	HPE Universal CMDB <sup>7</sup>	Notes
10.5	10	3.4 or higher	10.2	10.0 <sup>2</sup> , 10.10 <sup>3</sup> , 10.20 <sup>4</sup> , 10.50 <sup>5</sup> , 10.60 <sup>6</sup>	10.01 Content Pack 12, 10.10, 10.22	

<sup>1</sup> HPE Operations Bridge Reporter is the new SA reporting solution and has replaced BSAE and AI

<sup>2</sup> Support for HPE Operation Orchestration 10.0 is enabled by OO-SA 1.2.0 content

<sup>3</sup> Support for HPE Operation Orchestration 10.10 is enabled by OO-SA 1.2.0 content

<sup>4</sup> Support for HPE Operation Orchestration 10.20 is enabled by OO-SA 1.3.0 content

<sup>5</sup> Support for HPE Operation Orchestration 10.50 is enabled by OO-SA 1.3.0 content

<sup>6</sup> Support for HPE Operation Orchestration 10.60 is enabled by OO-SA 1.3.0 content

<sup>7</sup> uCMDB = HPE Universal Configuration Management Database; CP = uCMDB Content Pack; CUP = uCMDB Cumulative Update Package

**Deprecation Note:** For support deprecation and removal announcements, see:

[SA Release Notes](#)



# Server Automation Provisioning Feature Support

Server Automation (10.50 - 10.51)

July 2017

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This matrix does not contain all configuration and resource requirements. For more information, download the Server Automation Release Notes for this release from Hewlett Packard Enterprise Software Support Online. Note: Service releases are implicitly supported by SA releases that support the original OS version. HPE Software support for any OS, listed or not, ends when the OS Vendor ends support for that platform. For further explanation of the SA platform support policy, see the SA Platform Support Statement enclosed in this document.

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## Build Plan Feature Support

Platform Family	Platform Version	Patch	Architecture	Network Boot	DHCPless Deployment	UEFI Deployment <sup>(*)</sup>	UEFI Deployment in Secure Boot Mode <sup>(*)</sup>	Scripted Install	Image Capture	Image Deploy	Network Personalization	Media Protocols	ICsp(**) Content
Linux	CentOS Linux 5	3-11	x86 X86_64	yes	Linux ISO	no	no	yes <sup>2</sup>	no	no	yes	nfs, http	no
	CentOS Linux 6	0-8	x86 X86_64	yes	Linux ISO	yes, starting with 6.1	no	yes <sup>2</sup>	no	no	yes	nfs, http, https (starting with 6.1)	no
	CentOS Linux 7	0-2	x86 X86_64	yes	Linux ISO	yes	no	yes <sup>2</sup>	no	no	yes	nfs, http, https	no
	Oracle Enterprise Linux 5	1-11	x86 X86_64	yes	Linux ISO	no	no	yes <sup>2</sup>	no	no	yes	nfs, http	no
	Oracle Enterprise Linux 6	0-8	x86 X86_64	yes	Linux ISO	yes, starting with 6.1	no	yes <sup>2</sup>	no	no	yes	nfs, http, https (starting with 6.1)	no
	Oracle Enterprise Linux 7	0-2	x86 X86_64	yes	Linux ISO	yes	no	yes <sup>2</sup>	no	no	yes	nfs, http, https	no

Platform Family	Platform Version	Patch	Architecture	Build Plan Feature Support									
				Network Boot	DHCPless Deployment	UEFI Deployment (*)	UEFI Deployment in Secure Boot Mode (*)	Scripted Install	Image Capture	Image Deploy	Network Personalization	Media Protocols	ICsp(**) Content
	Red Hat Enterprise Linux 5	0-11	x86 X86_64	yes	Linux ISO	no	no	yes <sup>2</sup>	no	no	yes	nfs, http	yes (only for 5.9, 5.10, 5.11)
	Red Hat Enterprise Linux 6	0-8	x86 X86_64	yes	Linux ISO	yes, starting with 6.1	no	yes <sup>2</sup>	no	no	yes	nfs, http, https (starting with 6.1)	yes (only for 6.3, 6.4, 6.5, 6.6)
Linux	Red Hat Enterprise Linux 7	0-2	X86_64	yes	Linux ISO	yes	yes	yes	no	no	yes	nfs, http, https	yes (only for 7.0, 7.1)
	SUSE Enterprise Linux 11	SP0-SP4	x86 X86_64	yes	Linux ISO	yes, starting with SP3	yes, starting with SP3	yes	no	no	yes	nfs, http	yes (only for SP2, SP3)
	SUSE Enterprise Linux 12	SP0-SP1	x86 X86_64	yes	Linux ISO	yes	yes	yes	no	no	yes	nfs, http, https	yes (only for SP0)
	Ubuntu 12.04	0-5	x86 X86_64	yes	Linux ISO	yes	yes, starting with 12.04.2	yes	no	no	yes	http, https	no
	Ububtu 14.04	2-3	x86	yes	Linux ISO	yes	yes	yes	no	no	yes	http, https	no
	Ubuntu 14.04	0-3	X86_64	yes	Linux ISO	yes	yes	yes	no	no	yes	http, https	no
	Novell OES 11	SP2	X86_64	yes	Linux ISO	no	no	yes	no	no	yes	nfs, http	no

Platform Family	Platform Version	Patch	Architecture	Build Plan Feature Support										
				Network Boot	DHCPless Deployment	UEFI Deployment (*)	UEFI Deployment in Secure Boot Mode (*)	Scripted Install	Image Capture	Image Deploy	Network Personalization	Media Protocols	ICsp(**) Content	
Windows	Windows Server 2008	all	X86	yes	Windows ISO	no	no	yes	yes	yes	yes	smb	no	
			X86_64	yes	Windows ISO	no	no	yes	yes	yes	yes	smb	yes	
	Windows Server 2008 R2	all	X86_64	yes	Windows ISO	no	no	yes	yes	yes	yes	smb	yes	
	Windows Server 2012	all	X86_64	yes	Windows ISO	yes	yes	yes	yes	yes	yes	smb	yes	
	Windows Server 2012 R2	all	X86_64	yes	Windows ISO	yes	yes	yes	yes	yes	yes	smb	yes	
	Windows Server 2016	all	X86_64	yes	Windows ISO	yes	no	yes	yes	yes	yes	smb	no	
	Windows 7	all	X86	yes	Windows ISO	no	no	yes	yes	yes	yes	yes	smb	no
		all	X86_64	yes	Windows ISO	no	no	yes	yes	yes	yes	yes	smb	yes
	Windows 8.1	all	X86_64	yes	Windows ISO	yes	no	yes	yes	yes	yes	smb	yes	
Windows 10	all	X86_64	yes	Windows ISO	yes	no	yes	yes	yes	yes	smb	no		
Oracle Solaris	Solaris 10	GA-u11	X86_64	yes	no	no	no	yes <sup>2</sup>	no	no	no	nfs	no	
		u8-u11	SPARC	yes	no	no	no	yes <sup>2</sup>	no	no	no	nfs	no	
	Solaris 11	u0-u2	X86_64	yes	no	no	no	yes <sup>2</sup>	no	no	no	http	no	
		u0-u2	SPARC	yes	no	no	no	yes <sup>2</sup>	no	no	no	http	no	
Vmware ESXi	ESXi 6.0	U0	X86_64	yes	Linux ISO	yes	no	yes	no	no	Limited <sup>1</sup>	nfs, http, https, smb	yes	
	ESXi 5.5	U0-U1 <sup>3</sup>	X86_64	yes	Linux ISO	yes	no	yes	no	no	Limited <sup>1</sup>	nfs, http, https, smb	yes	

Platform Family	Platform Version	Patch	Architecture	Build Plan Feature Support								
				Network Boot	DHCPless Deployment	UEFI Deployment <sup>(*)</sup>	UEFI Deployment in Secure Boot Mode <sup>(*)</sup>	Scripted Install	Image Capture	Image Deploy	Network Personalization	Media Protocols
<sup>1</sup> Not post install, since ESXi is agent-less. Network configuration is install time. Supports setting a single interface on a single device.												
<sup>2</sup> Supported only over IPv4. IPv6 deployment not supported.												
<sup>3</sup> Patch U2 is supported only for ICsp												
(*) UEFI deployment is only supported for X86_64 processor architecture flavours of the Operating Systems.												
(**) ICsp : HPE Insight Control server provisioning												
<b>Deprecation Note:</b> For support deprecation and removal announcements, see:										<a href="#">SA Release Notes</a>		

## Server Automation Platform Support

HPE Server Automation (SA) is a heterogeneous server management product which manages a wide variety of OS platforms running Microsoft Windows and vendor-specific versions of UNIX and Linux operating systems.

### Document Purpose

This document defines the general platform support policy for all SA versions. This policy covers the scope of supported platforms for SA components including:

- Managed Devices
- Core and Satellite Infrastructure
- Model Repository Database

### Deviations from the General Platform Support Policy

Hewlett Packard Enterprise strives to maintain conformance with the general platform support policy. Any deviation from this policy will be clearly documented in the Release Notes for the specific version. Customers should always review any limitations stated in the Release Notes.

### Glossary of Terms

#### Platform Backward Compatibility Assumption

Most platform vendors claim that their platforms are *backward compatible*, meaning that existing software should continue to run successfully on newer vendor platform releases. Platform releases that violate this assumption may cause failures in Server Automation functions.

#### Qualified Platform

A *qualified* platform is a platform that has been tested by Hewlett Packard Enterprise to ensure it is fit-for-purpose and compatible with other major SA system components. A *non-qualified* platform is a supported platform release that has not been tested by Hewlett Packard Enterprise in this manner. A non-qualified platform may or may not prove to be fit-for-purpose and compatible.

For example, the current Server Automation Support Matrix lists RedHat Enterprise Linux 5.7 as the latest qualified platform with SA version 9.06, and should RedHat release a version 5.8 in the future, version 5.8 would be deemed a *non-qualified* version at the time of its release.

#### Normal Support Period

All OS vendors publish a support lifecycle and end of support dates for their products. While each vendor uses different nomenclature, they each have a period while the product is covered under the normal terms of support for their standard support (the Normal Support Period) and maintenance fee and a period where the service is limited and/or the rate of support increases (the Premium Support Period). Hewlett Packard Enterprise's support for OS products is aligned to the Normal Support Period.

#### Risks of Deploying a Non-Qualified Platform

There is an inherent risk should a customer choose to deploy a non-qualified platform onto a managed device or infrastructure server. The concept of vendor backward compatibility guarantees, coupled with the inherent risk a customer assumes when deploying a non-qualified platform, are key premises of the inherent support statements in this Server Automation Generalized Platform Support Statement.

#### Service Release

Each Platform Vendor uses their own release nomenclature but all vendors provide a mechanism for Service Releases (SRs) which include security updates, bug fixes and minor enhancements. These SRs are stable with respect to Application Programming Interface (API) and Application Binary Interface (ABI). Service Releases can generally be applied as patches to a running system (reboot may be required to enact the changes to memory) rather than an upgrade which is generally applied to a halted OS. Some examples of how vendors designate their SRs are:

- **Red Hat** designates Red Hat Enterprise Linux (RHEL) SRs as minor versions, e.g. 5.6, 5.7, 5.8 are SRs of RHEL v.5 but RHEL v.6 is a distinct release from RHEL v.5
- **Microsoft** designates Windows Server SRs as Service Packs, e.g. Server 2008 SP3 is a SR of Server 2008 but Server 2008 R2 is a distinct release from Server 2008
- **Oracle** designates Solaris SRs as Update (U) releases, so Solaris 10 U9 is a SR of Solaris 10 but Solaris 11 is a distinct release for Solaris 10
- **VMware** designates vSphere SRs as Update ("U") releases, so vSphere 4.0 U1 is a SR of vSphere 4.0 but vSphere 4.1 is a distinct release from vSphere 4.0.
- **Novell** designates SUSE Linux Enterprise Server (SLES) SRs as Service Packs, e.g. SLES 10 SP1, SLES 10 SP2, SLES 10 SP3 are SRs of SLES v.10 but SLES v.11 is a distinct release from SLES v10

## Managed Devices

### Physical OS Platform Set for Managed Devices

The set of supported Managed Device platforms is governed by the following policies:

- The SA Support Compatibility Matrix (SCM) specifies the definitive set of Managed Server OS platform versions which are tested to be compatible with any specific SA release. Customers should refer to the SCM for documentation of supported Major versions and qualified minor versions.

- Newer Service Releases of qualified major versions are implicitly supported on a managed server.
  - For example, if the SCM indicates that Red Hat Enterprise Linux Server v6.2 is qualified, then future 6.x updates of RHEL Server are implicitly supported, whereas v7.x versions will not be considered supported until explicitly documented as such in the SCM.

○ Because there may be functional differences between current and future versions of a managed server platform, there is no guarantee of compatibility. Hewlett Packard Enterprise will assess the impact of supporting the changes made by the vendor and reserves the right to support the specific functions affected by the platform vendor's changes in a future SA release. SA patches or hotfixes may be delivered and required to provide compatibility in accordance with the normal support process.

- Subsequent Major, Minor, and Patch Releases of SA will maintain support for all previously supported Managed Device OS versions through the OS Vendor's Normal Support Period and in accordance with Hewlett Packard Enterprise Software's lifecycle policy. For instance, because SA v9.11 supports Windows Server 2003, all newer releases of SA will continue to support Windows Server 2003 until it reaches Microsoft's end of support date.

- Hewlett Packard Enterprise warrants that application of patch content to Managed Devices does not limit supportability of the resultant environment. Specifically:
  - Application of patch content does not invalidate the supportability of that managed server.
  - Upgrading or patching the SA Core or Satellite components is generally not required to continue support for management of these patched managed servers.
  - Upgrading the SA Agent is generally not required to continue support for management of these patched managed servers.
- Functional limitations inherent to the Managed Device OS platform may limit the features available in SA (that is, SA can only automate actions to the extent that the actions themselves can be performed on the Managed Devices).

## Agent Compatibility and Upgrade Requirements

As documented below, the SA Core and Satellite infrastructure are compatible with older SA Agent versions. The set of supported Managed Device platforms is determined according to the following policy:

- Newer SA Core and Satellite versions are tested for compatibility with all actively supported older SA Agent versions. While every effort is made to allow newer Core and Satellite features to work with older Agent versions, it cannot be guaranteed.

- Any features supported on the older Agent version should continue to function with newer Core and Satellite versions. Any limitations on legacy feature usage are specifically noted in the Release Notes.
- The Agent upgrade is verified to work with all actively supported Agent versions. Customers should verify that out-of-support Agent versions are upgraded prior to upgrade of Core and Satellite infrastructure.

## Agent Compatibility with Virtualization

The SA Agent relies on Standard OS Interfaces for operation. When used in the context of a virtual guest OS, the SA Agent is verified to be compatible with all Virtualization technologies which are documented in the SCM.

## Locale Support

SA supports all locales when using a qualified managed server platform. All managed server platforms are qualified on EN locale by default. Additionally, a representative set of locales are qualified on certain platforms, as described below.

By qualified, we mean that SA has tested the platform with the locale to ensure it is fit-for-purpose and compatible with major SA system components and functions.

By supported non-qualified, we mean that SA has not run additional testing to qualify the locale on that platform or platform version, however based on analysis of previous testing results and testing results of other like platforms and locales, we expect it to function as the qualified platforms do. If locale issues are discovered, SA will resolve the issue via SA Support according to your customer support agreement.

The representative set of languages that have been tested are:

- English (en)
- French (fr)
- German (de)
- Italian (it)
- Japanese (ja)
- Korean (ko)

## Virtualized Platform Support

As documented in the SCM, SA supports inventory and control actions for virtualization platforms either through the SA Agent or via connection to the virtualization platform API.

### Support for Agent-based virtualization functionality

Support policy for Agent-based virtualization functionality follows the general Agent support policies stated above.

### Support for API-based virtualization capabilities

Scope of support for API-based virtualization capabilities is defined as follows:

- Functional limitations inherent to the virtualization platform or API may limit the features available in SA (that is, SA can only automate actions to the extent that the actions themselves can be performed via the API.)
- Capabilities available in a specific SA version are limited by the extent of integration performed in that version.
- Capabilities which are available via API integration in a specific SA version will continue to be available in new Major and Minor versions. Any exceptions will be noted clearly in the Release Notes.
- The SA Support Compatibility Matrix (SCM) specifies the definitive set of virtualization platform versions which are qualified with any specific SA release. Customers should refer to the SCM for documentation of supported Major versions and explicitly tested minor versions.

- Newer virtualization platform Service Releases are implicitly supported.
  - For instance, if the SCM indicates that VMware vSphere v4.0 is tested then future 4.0 "Update X" updates of vSphere are implicitly supported, whereas v4.2 and v5.x versions will not be considered supported until explicitly documented as such in the SCM.

○ Because there may be functional differences between current and future versions of virtualization platform there is no guarantee of compatibility. Hewlett Packard Enterprise will assess the impact of supporting the changes made by the vendor and reserves the right to support the specific functions affected by the platform vendor's changes in a future SA release. Patches or hotfixes may be delivered and required to provide compatibility in accordance with the normal support process.

- Hewlett Packard Enterprise warrants that application of patch content to virtualization platforms does not limit supportability of the resultant environment. Specifically:
  - Application of patch content does not invalidate the supportability of that managed virtualization platform.
  - Upgrading or patching the SA Core or Satellite components is generally not required to continue support for management of these patched virtualization systems.
  - Upgrading the SA Agent is generally not required to continue support for management of these patched virtualization systems.

See "Virtual Containers" in this document for additional details about support for installation and operation of SA Core, Satellite, and Database components on virtual containers.

## Core and Satellite Infrastructure

### Version Compatibility for SA Infrastructure

SA Core and Satellite infrastructure component releases are designed to be compatible with earlier versions of agents, meaning that a new release of the infrastructure should continue to operate and communicate successfully with older releases of the SA Agent. In general, customers must upgrade their systems from the Core out, keeping Core version  $\geq$  Satellite version  $\geq$  Agent version.

Please also review the [Agent Compatibility and Upgrade Requirements](#) section.

From	To	Comments
Newer Core release	Older Core release	Limited Compatibility – Core servers in a mesh must be of the same version and can be of mixed patch levels
Older Core release	Newer Core release	Limited Compatibility – Core servers in a mesh must be of the same version and can be of mixed patch levels
Newer Core release	Older Satellite release	Compatible with currently supported Satellite versions
Older Core release	Newer Satellite release	Not Compatible. Core must be upgraded before Satellites.
Newer Core release	Older Agent release	Compatible with currently supported Agent versions
Older Core release	Newer Agent release	Not Compatible. Core must be upgraded before Agents.
Newer Satellite release	Older Agent release	Compatible
Older Satellite release	Newer Agent release	Not Compatible. Satellite must be upgraded before Agents.

Every effort is made to ensure Infrastructure Core and Satellite components are compatible with each other; however, there may be exceptions where there is symbiosis between infrastructure components of the same SA release. As a general rule of thumb, infrastructure components from the same release should always be deployed into a production infrastructure, and not mixed-and-matched with older component versions.

### Physical OS Platform Support for SA Infrastructure

The set of supported Core and Satellite OS platforms is governed by the following policies:

- The SA Support Compatibility Matrix (SCM) specifies the definitive set of compatible Core and Satellite OS platform versions which are tested to be compatible with any specific SA release.
- Subsequent patch releases of SA will maintain support for all previously supported Core and Satellite OS platform versions through the OS vendor's Normal Support Period in accordance with Hewlett Packard Enterprise Software's lifecycle policy or until formally obsolesced.
- Subsequent major and minor releases of SA will maintain support for the newest previously supported Core and Satellite OS platform, within the OS Vendor's Normal Support Period in accordance with Hewlett Packard Enterprise Software's lifecycle policy or until formally obsolesced.
- SA Infrastructure Core and Satellite components support application of Service Releases according to the following
  - Customers may apply Service Releases in accordance with vendor recommendations to existing SA Cores and Satellites. Service Releases are implicitly supported by all current SA releases that support the original OS version (for example, upgrading to RHEL 5.7 from RHEL 5.4) provided the OS kernel major and minor version is unchanged (minor-minor kernel version updates are supported).
  - Customers should only install SA components to versions explicitly documented in the SA Platform Support Matrix. It is intended that the latest SA Consolidated Patch should support all subsequent Service Releases for any OS Release Version that had originally been qualified for the SA major release, provided those Service Releases are available at least 60 days prior to release of the SA Consolidated Patch. For example, if RHEL v5.4 was supported originally, then RHEL v5.5 through v5.7 should be supported (assuming v5.7 is available 60+ days prior to the release of the SA Consolidated Patch).
  - Exceptions to this policy will be documented in the Release Notes.

### Virtualized OS Platform Support for SA Infrastructure

Operation of SA Core and Satellite infrastructure in Virtual Machines (VMs) is supported provided:

- The SA application server Core components will be considered supported when executed within VMs, provided customers follow VMWare best practices for managing resource allocation and overall workload to ensure other VMs sharing the same virtualization platform instance do not significantly impact the performance available to the VM hosting the Server Automation Core software.
  - For Infrastructure and Slice Components, Hewlett Packard Enterprise reserves the right to ask customers to replicate any potentially performance-related issues in an environment where the VM supporting the Server Automation Core software is the sole VM active within the virtualization platform instance.
  - Refer to the Planning and Installation Guide for VM-specific planning/sizing information.
- See "Virtual Containers" in this document for additional details about support for installation and operation of SA Core, Satellite, and Database components on virtual containers.

### Third-Party and Open Source Component Support

SA uses several open source and/or third-party components (for example, the Java Runtime Engine, or JRE). Customers must apply the latest SA Consolidated Patch to receive the latest qualified third-party and open source component releases which have been tested to be compatible with SA.

## Model Repository Database

### Relational Database Server Support

In an effort to ensure that database server environments are fully supported during an upgrade, migration, or new install of the SA software, Hewlett Packard Enterprise extends its support for relational database servers in the following manner.

The set of supported Relational Database versions and OS platforms is governed by the following policies:

- The SA Support Compatibility Matrix (SCM) specifies the definitive set of Relational Database Server platform versions and OS platforms which are tested to be compatible with any specific SA release. Customers should refer to the SCM for documentation of supported Major versions and qualified minor versions.
- Customers may apply Database Service Releases such as Oracle Critical Patch Updates (CPUs) and Patch Set Updates (PSUs) in accordance with vendor recommendations to existing SA Model Repositories. Service Releases for the Database platform are implicitly supported by all current SA releases that support the original Database Version.
- Customers may apply OS platform patches and/or service packs in accordance with vendor recommendations to existing SA Model Repositories. Service Releases applied to the OS platform are implicitly supported by all current SA releases that support the original OS version (for example, upgrading to RHEL 5.7 from RHEL 5.4).
- Should the Platform Backward Compatibility Assumption be breached by the database server platform vendor, then Hewlett Packard Enterprise will assess the impact of supporting the changes made by the vendor and reserves the right to support the specific functions affected by the platform vendor's changes in a future SA release.

### Virtualized OS Platform Support for SA Model Repository

For the Model Repository, Hewlett Packard Enterprise reserves the right to ask customers to replicate any issues in an environment where the Model Repository is installed on a supported physical platform. Any issues resulting from interactions between Oracle Database and the VM platform requiring interaction with Oracle support are the sole responsibility of the customer. For information about Oracle's supported virtualization technologies for Oracle Database and RAC products, see Oracle's virtualization matrix.

See "Virtual Containers" in this document for additional details about support for installation and operation of SA Core, Satellite, and Database components on virtual containers.

## Virtual Containers

### Support for Installation and Operation of SA Core, Satellite, and Database Components on Virtual Containers

The SA Support and Compatibility Matrix (SCM) specifies the precise set of OS Platform and Virtualization Hypervisor versions (such as VMware's ESXi 5.1) that were qualified to be compatible with SA Core, Satellite and Database components at the time of release.

Support for installing and operating SA Core, Satellite and Database components on virtualization hypervisors is guided by the following rules and assumptions:

- A hypervisor version is considered a supported platform for hosting an SA Core (both Infrastructure and Slice) and Satellite components provided the following conditions are met:
  - The OS version used is qualified for hosting an SA Core or Satellite, as listed in the SA Support and Compatibility Matrix.
  - The OS version is also supported for use with the hypervisor version, as listed in the support matrix of the hypervisor vendor (such as VMware.)
- A hypervisor version is considered a supported platform for hosting an SA Model Repository provided the following conditions are met:
  - The database and host OS platform versions are listed as a qualified platform combination in the SA Support and Compatibility Matrix.
  - The database version is deemed compatible with the hypervisor by the database vendor (such as Oracle) or the hypervisor vendor (VMware).
  - The customer is following database and hypervisor configuration recommendations of their respective vendors.
  - It is the responsibility of the Customer to monitor component and system performance, and tune the hypervisor configuration parameters to ensure performance.
  - If a virtualization-related issue is identified as part of the SA Support process, Hewlett Packard Enterprise reserves the right to request that the customer quiesce other virtualized workloads on the same hypervisor node or replicate the issue on a like physical (non-virtualized) server.
- As always, Customers should follow industry standard testing practices before applying patch content to their managed servers to validate that no interruption of service occurs as a result.



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