Active System Manager
Version 8.1 Compatibility Matrix

Notes, cautions, and warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Contents

Overview

Active System Manager (ASM) is Dell's unified management product that provides a comprehensive infrastructure and workload automation solution for IT administrators and teams. ASM simplifies and automates the management of heterogeneous environments, enabling IT to respond more rapidly to dynamic business needs.IT organizations today are often burdened by complex data centers that contain a mix of technologies from different vendors and cumbersome operational tasks for delivering services while managing the underlying infrastructure. These tasks are typically performed through multiple management consoles for different physical and virtual resources, which can dramatically slow down service deployment. ASM features an enhanced user interface that provides an intuitive, end-to-end infrastructure and workload automation experience through a unified console. This speeds up workload delivery and streamlines infrastructure management, enabling IT organizations to accelerate service delivery and time to value for customers.This document contains information about virtual appliance and software requirements of ASM, and the resources supported by ASM such as chassis, servers, storage, network switches, and adapters.

Other Documents You May Need

Go to **http://www.dell.com/asmdocs** for additional supporting documents such as:

- *Dell Active System Manager version 8.1 User's Guide*
- *Dell Active System Manager version 8.1 Release Notes*
- *Dell Active System Manager version 8.1 Installation Guide*
- *Dell Active System Manager REST API Version 1.0 Reference Guide*

For more information about ASM including how to videos, whitepapers, blogs and support forum, see Dell Active System Manager page on Dell TechCenter:

http://www.dell.com/asmtechcenter

Active System Manager Appliance Requirements

Active System Manager runs as a virtual appliance on a Dell server configured with the following hardware and software:

Resources	Minimum Requirement
vCPUs	4 vCPUs
Memory	16 GB
Disk Space	80 GB

Hypervisor and Management Requirements

Software Component	Supported Version
VMware vSphere	• 5.5 • 5.1
Microsoft System Center Virtual Machine Manager (SCVMM)	• 2012 R2 • 2012

Browser Requirements

To display Active System Manager (ASM) correctly, a system must have a minimum 1024 x 768 screen resolution and a Web browser that meets minimum requirements based on the operating system.

Operating System	Internet Explorer	Mozilla Firefox	Google Chrome
Microsoft Windows Server 2012	Version 9 or Later	Version 26 or Later	Version 32 or Later
Microsoft Windows Server 2012 R2	Version 9 or Later	Version 26 or Later	Version 32 or Later
Microsoft Windows Server 2008	Version 9 orLater	Version 26 or Later	Version 32 or Later

Operating System	Internet Explorer	Mozilla Firefox	Google Chrome
Microsoft Windows Server 2008 R2	Version 9 or Later	Version 26 or Later	Version 32 or Later
Microsoft Windows 7	Version 9 or Later	Version 26 or Later	Version 32 or Later
Red Hat Enterprise Linux 6.5 and 7.0	Not Supported	Version 26 or Later	Version 32 or Later
Cent OS 6.5 and 7.0	Not Supported	Version 26 or Later	Version 32 or Later

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Supported Resources

This section provides information about the resources supported by Active System Manager (ASM). The information has been segmented based on the resource types.

Supported Physical Server Operating System

Software Component	Supported Version
Microsoft Windows	• 2012 R2 • 2012 • 2008 R2
Red Hat Enterprise Linux	• 6.5-7.0
CentOS	• 6.5-7.0

Supported Hypervisor

Software Component	Supported Version
Microsoft Windows	• 2012 • 2012 R2
VMware	• 5.5 • 5.1

Supported Virtual Machine Operating System

Software Component	Supported Version
Microsoft Windows	• 2012 • 2012 R2 • 2008 R2 • 2008*
Red Hat Enterprise Linux	• 6.5 -7.0
CentOS	• 6.5 -7.0

Microsoft Windows 2008 is supported only as a virtual machine and it must be created through cloning.

Supported OS Installation and Boot Locations

Boot Location	Microsoft Windows	Red Hat Enterprise Linux	ESXi	Hyper-V
HDD	X	X	X	X
SD			X	
SAN	X	X		

Supported Dell PowerEdge Chassis

Chassis	Supported Version
PowerEdge M1000e	• CMC 4.5-5.0
PowerEdge FX2	• CMC 1.10-1.20

Supported 12th Generation PowerEdge Servers

The following table provides information regarding the supported 12th Generation PowerEdge servers:

Resource	BIOS Version		iDRAC Version		LC Version	
	From	To	From	To	From	To
Dell PowerEdge M420	2.1.7	2.3.3	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge M520	2.1.3	2.3.2	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge M620	2.2.7	2.4.3	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge M820	2.0.20	2.2.2	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge R420	2.1.2	2.3.3	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge R520	2.1.2	2.3.3	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge R620	2.2.2	2.4.3	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge R720	2.2.2	2.4.3	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge R720XD	2.2.2	2.4.3	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge R820	2.0.20	2.2.3	1.57. 57	1.66.65	1.4.2	1.4.2.12
Dell PowerEdge R920	1.2.2	1.3.2	1.57. 57	1.66.65	1.4.2	1.4.8

Resource	BIOS Version		iDRAC Version		LC Version	
	From	To	From	To	From	To
Dell PowerEdge C6220 II*	2.5.3	2.5.3	NA	NA	NA	NA

* Server configuration is not supported.

Supported 13thGeneration PowerEdge Servers

The following table provides information regarding the supported 13th Generation PowerEdge Servers:

Resource	BIOS		iDRAC with Lifecycle Controller	
	From	To	From	To
Dell PowerEdge R630	1.0.4	1.1.4	2.02.01.01	2.02.01.01
Dell PowerEdge R730	1.0.4	1.1.4	2.02.01.01	2.02.01.01
Dell PowerEdge R730 XD	1.0.4	1.1.4	2.02.01.01	2.02.01.01
Dell PowerEdge R530	1.0.2	1.0.2	2.06.05.05	2.06.05.05
Dell PowerEdge R430	1.0.2	1.0.2	2.06.05.05	2.06.05.05
Dell PowerEdge M630	1.0.3	1.0.3	2.05.05.05	2.05.05.05
Dell PowerEdge FC630	1.0.3	1.1.9	2.05.05.05	2.10.10.10

Supported Cisco UCS Servers and Firmware Matrix

Resource	Firmware Supported	
	From	To
Cisco UCS B200 M1	2.1(3b)	2.2(1d)
Cisco UCS B440 M2	2.1(3b)	2.2(1d)
Cisco UCS B420 M3	2.1(3b)	2.2(1d)
Cisco UCS B22 M3	2.1(3b)	2.2(1d)
Cisco UCS B250 M1	2.1(3b)	2.2(1d)
Cisco UCS B200 M2	2.1(3b)	2.2(1d)
Cisco UCS B230 M2	2.1(3b)	2.2(1d)
Cisco UCS B200 M3	2.1(3b)	2.2(1d)

Resource	Firmware Supported	
	From	To
Cisco UCS B420 M3	2.1(3b)	2.2(1d)
Cisco UCS B22 M3	2.1(3b)	2.2(1d)

> **NOTE:** ASM supports deployment of the operating system on the supported Cisco UCS servers. If you want to deploy operating system on CIsco UCS servers, you must apply required hardware configuration by using a service profile in UCS Manager.

Supported Dell Storage and Firmware Matrix

The following table provides information about the supported storage resources.

Resources	Firmware Supported	
	From	To
Dell EqualLogic PS4100	7.0	7.1.4
Dell EqualLogic PS6100	7.0	7.1.4
Dell EqualLogic PS6110	7.0	7.1.4
Dell EqualLogic PS6210	7.0	7.1.4
Dell EqualLogic PS6510	7.0	7.1.4
Dell EqualLogic PS4110	7.1.4	7.1.4
Dell EqualLogic PS4210	7.1.4	7.1.4
Dell Storage SC4020*	6.5	6.5.3.10
Dell Compellent SC8000*	6.3	6.6.4.6

* FC only.

Supported Third-party Storage and Firmware Matrix

The following table provides information about the supported third-party storage resources.

Resources	Firmware Supported	
	From	To
NetApp FAS 22xx (NFS Only)	ONTAP 8.0.4 (7 mode only)	ONTAP 8.0.4 (7 mode only)
NetApp FAS 32xx (NFS Only)	ONTAP 8.0.4 (7 mode only)	ONTAP 8.0.4 (7 mode only)

Resources	Firmware Supported	
	From	**To**
NetApp FAS 62xx (NFS Only)	ONTAP 8.0.4 (7 mode only)	ONTAP 8.0.4 (7 mode only)

Supported Network Switches

The following table provides information about the supported Networks:

Resource	Supported Version	
	From	**To**
Dell Networking S4810	9.3.0.0	9.6.0
Dell Networking S4820T	9.5.0.1	9.6.0
Dell Networking S5000	9.3.0.0	9.6.0
Dell Networking S6000	9.3.0.0	9.6.0
Dell PowerEdge M I/O Aggregator switch	9.2.0.0	9.6.0
Dell Networking MXL 10/40GbE blade switch	9.2.0.0	9.6.0
Flex IO Module for IOA and MXL	N/A	N/A
Cisco Nexus 5500 series	6.0(2)N2(3)+	6.0(2)N2(3)+
Dell Networking 8/4Gbps FC SAN Module	7.2.0.a	7.2.0.a
FN IO Aggregators for FX2	9.6.0.0	9.6.0.0
10GbE pass-through for FX2	N/A	N/A
Dell Networking N3000*	6.2.0.5	6.2.0.5
Dell Networking N4000*	6.2.0.5	6.2.0.5
Brocade M5424**	7.2.0.a	7.3.0.c
Brocade M6505**	v7.2.0.a	v7.3.0.a
Brocade 6510	7.2.0.a	7.3.0.a
Brocade 6520	7.3.0.c	7.3.0.c

* Firmware update support only, not supported for use in service deployments.

** Access gateway mode only.

Supported Adapters and Firmware Matrix

The following table provides information about the supported adapters.

Resource	Firmware Supported	
	From	**To**
Broadcom 57810 -k Dual-Port 10Gb Mezzanine	7.8	7.10.18
Broadcom 57840-k Quad-Port 10GbE Mezzanine	7.8	7.8.53
Broadcom 57810 Dual-Port Gigabit NIC PCIe	7.8	7.10.18
Intel X520 Dual-Port 10GbE Adapter *	15.5.0, A00	16.0.24, A00
QLogic QLE 2562 8Gb FC HBA	03.20.06	03.21.04
QLogic QME 2572 8Gb FC HBA	03.20.06	03.21.04
Qlogic QLE 2662 16Gb FC HBA	03.10.07	03.11.09
Qlogic QME 2662 16 Gb FC HBA	03.11.09	03.10.07

* Intel x520 supports Physical Server Windows and Linux Operating Systems only. Deploying ESXi and HyperV are not supported with this network adapter.