



UCS B-Series Server: Baremetal, Host-OS / Guest-OS Hardware and Software Interoperability Matrix

This document provides interoperability matrices for Cisco Unified Computing System components and configurations that have been tested and validated by Cisco, Cisco partners, or both. Use this document as a reference for supported hardware and software.

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Audience

This document is designed for use by Cisco sales, support engineers, professional service partners and system administrators responsible for the design and deployment of the Unified Computing System in the data center environment.

This document applies to the B-Series servers in Cisco Unified Computing System release 2.0.4.

Baremetal: Japanese Operating System Interoperability Matrix

UCS Blade Server	Operating System	Vendor
B200 M2 / B250 M2 / B230 M2 / B22 M3	Windows Server 2012 x64	Microsoft

Host OS—Guest OS: Japanese Operating System Interoperability Matrix

UCS Blade Server	Operating System		Vendor	
	Host OS	Guest OS	Host OS	Guest OS
B200 M2 / B250 M2 / B230 M2 / B22 M3	vSphere 5.0i U1	Windows 8 x64	VMware	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	vSphere 5.0i U1	Windows 8 Enterprise x64	VMware	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	Enterprise Linux 6.3 x64	Windows 8 x64	Red Hat	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	Enterprise Linux 6.3 x64	Windows 8 Enterprise x64	Red Hat	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	Hyper-V Server 2008 R2 SP1 x64	Windows 8 x64	Microsoft	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	Hyper-V Server 2008 R2 SP1 x64	Windows 8 Enterprise x64	Microsoft	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	vSphere 5.1i	Windows 8 x64	VMware	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	vSphere 5.1i	Windows 8 Enterprise x64	VMware	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	Hyper-V Server 2012 x64	Windows 8 x64	Microsoft	Microsoft
B200 M2 / B250 M2 / B230 M2 / B22 M3	Hyper-V Server 2012 x64	Windows 8 Enterprise x64	Microsoft	Microsoft

**Note**

Japanese Operating Systems were tested with different combinations of blades and adapters.
Japanese Operating Systems were verified with boot from SAN.

Baremetal: Adapter Interoperability Matrix

UCS Blade Server	Adapter Model	Operating System	Storage Used	Adapter Driver	Adapter Firmware
B200 M2 / B230 M2	UCS 1280 Virtual Interface Card	Windows Server 2012 x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	2.2.0.9	2.0(4)
B200 M2 / B230 M2 / B250 M2	UCS M72KR-E Converged Network Adapter	Windows Server 2012 x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	2.72.012.001	2.0(4)
B200 M2 / B230 M2 / B250 M2	UCS M72KR-E Converged Network Adapter	Windows Server 2012 x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	9.1.10.15	2.0(4)
B22 M3	UCS 1240 Virtual Interface Card	Windows Server 2012 x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	2.2.0.9	2.0(4)

Host OS—Guest OS: Adapter Interoperability Matrix**Table 1: Adapter Interoperability Matrix (vSphere 5.0i U1)**

UCS Blade Server	Adapter Model	Host OS	Guest OS	Storage Used	Adapter Driver	Adapter Firmware
B200 M2 / B230 M2	UCS 1280 Virtual Interface Card	vSphere 5.0i U1	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	1.5.0.8	2.0(4)
B200 M2 / B250 M2 / B230 M2	UCS M72KR-E Converged Network Adapter	vSphere 5.0i U1	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	8.2.2.105.36	4.0.467.0

UCS Blade Server	Adapter Model	Host OS	Guest OS	Storage Used	Adapter Driver	Adapter Firmware
B200 M2 / B250 M2 / B230 M2	UCS M72KR-Q Converged Network Adapter	vSphere 5.0i U1	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	911.k1.1-19vmw	1.02.13
B22 M3	UCS 1240 Virtual Interface Card	vSphere 5.0i U1	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	1.5.0.8	2.0(4)

Table 2: Adapter Interoperability Matrix (vSphere 5.1i)

UCS Blade Server	Adapter Model	Host OS	Guest OS	Storage Used	Adapter Driver	Adapter Firmware
B22 M3	UCS 1240 Virtual Interface Card	vSphere 5.1i	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP/ NetApp FAS3240 / EMC CX4120 / HDS USP-VM	1.5.0.8	2.0(4)
B200 M2 / B230 M2	UCS 1280 Virtual Interface Card	vSphere 5.1i	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP/ NetApp FAS3240 / EMC CX4120 / HDS USP-VM	1.5.0.8	2.0(4)
B200 M2 / B250 M2 / B230 M2	UCS M72KR-E Converged Network Adapter	vSphere 5.1i	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP/ NetApp FAS3240 / EMC CX4120 / HDS USP-VM	8.2.2.105.36	2.0(4)

Table 3: Adapter Interoperability Matrix (Red Hat Enterprise Linux 6.3 x64)

UCS Blade Server	Adapter Model	Host OS	Guest OS	Storage Used	Adapter Driver	Adapter Firmware
B200 M2 / B230 M2	UCS 1280 Virtual Interface Card	Red Hat Enterprise Linux 6.3 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	1.5.0.1	2.0(4)
B200 M2 / B250 M2 / B230 M2	UCS M72KR-E Converged Network Adapter	Red Hat Enterprise Linux 6.3 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	8.3.5.68.5p	4.0.467.0
B200 M2 / B250 M2 / B230 M2	UCS M72KR-Q Converged Network Adapter	Red Hat Enterprise Linux 6.3 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	8.04.00.04.06.3-k	1.02.13
B22 M3	UCS 1240 Virtual Interface Card	Red Hat Enterprise Linux 6.3 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	1.5.0.1	2.0(4)

Table 4: Adapter Interoperability Matrix (Microsoft Hyper-V 2008 R2 SP1 x64)

UCS Blade Server	Adapter Model	Host OS	Guest OS	Storage Used	Adapter Driver	Adapter Firmware
B200 M2 / B230 M2	UCS 1280 Virtual Interface Card	Microsoft Hyper-V 2008 R2 SP1 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	2.1.0.18	2.0(4)

UCS Blade Server	Adapter Model	Host OS	Guest OS	Storage Used	Adapter Driver	Adapter Firmware
B200 M2 / B250 M2 / B230 M2	UCS M72KR-E Converged Network Adapter	Microsoft Hyper-V 2008 R2 SP1 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	7.2.50.007	4.0.467.0
B200 M2 / B250 M2 / B230 M2	UCS M72KR-Q Converged Network Adapter	Microsoft Hyper-V 2008 R2 SP1 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	9.1.8.27	1.02.13
B22 M3	UCS 1240 Virtual Interface Card	Microsoft Hyper-V 2008 R2 SP1 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	2.1.0.18	2.0(4)

Table 5: Adapter Interoperability Matrix (Microsoft Hyper-V 2012 x64)

UCS Blade Server	Adapter Model	Host OS	Guest OS	Storage Used	Adapter Driver	Adapter Firmware
B22 M3	UCS 1240 Virtual Interface Card	Microsoft Hyper-V 2012 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	2.2.0.9	2.0(4)
B200 M2 / B230 M2	UCS 1280 Virtual Interface Card	Microsoft Hyper-V 2012 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	2.2.0.9	2.0(4)

UCS Blade Server	Adapter Model	Host OS	Guest OS	Storage Used	Adapter Driver	Adapter Firmware
B200 M2 / B230 M2	UCS M72KR-E Converged Network Adapter	Microsoft Hyper-V 2012 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	2.72.012.001	4.2.313.0
B200 M2 / B250 M2 / B230 M2	UCS M72KR-Q Converged Network Adapter	Microsoft Hyper-V 2012 x64	Windows 8 x64 / Windows 8 Enterprise x64	HDS VSP / NetApp FAS3240 / EMC CX4-120 / HDS USP-VM	9.1.10.15	1.02.13

Components Matrix

Component	Version / Model
Server	
Cisco UCS 5108 Chassis	2.0(4a)
Fabric Interconnect 6296	5.0(3)N2(2.04a)
Fabric Extender 2104XP	5.0(3)N2(2.04a)
UCS Manager	2.0(4a)
UCS Driver Bundle	ucs-bxxx-drivers.2.0.4
B200 M2 Blade Server	2.0(4a)
B250 M2 Blade Server	2.0(4a)
B230 M2 Blade Server	2.0(4a)
B22 M3 Blade Server	2.0(4a)
Adapter	
Cisco UCS VIC 1280	UCS-VIC-M82-8P
Cisco UCS VIC 1240	UCSB-MLOM-40G-01
Emulex	M72KR-E
QLogic	M72KR-Q
Switch	
Cisco MDS 95xx	5.2(2a)

Supported Storage Arrays

Vendor	Model	Version
HDS	USP-VM / VSP	60-08-11-00/00 / 70-03-02-00/00
EMC	EMC CLARiiON CX4-120	4.29.0.5.003
NetApp	FAS3140 / FAS3240	7.3.3 / 8.1

Issues

- The Changes Performed By field in the Details tab is not updated during the configuration changes in UCSM. (CSCuc63661)
- The value for the WWPN field is displayed as zeroes in the Interface General tab of the service profile vHBA, but in the General tab of vHBA, the value for this field is displayed as "derived". Both the values are taken from the same MO and therefore, should be consistent. In both the tabs, the value for the WWPN field must be "derived" instead of zeroes. Also, in the Interface General tab, the same value "1" is displayed for different VSAN IDs. (CSCuc72584)
- UCSM - The **show fex x version** command does not display the correct output. (CSCuc60555)
- Blade B250 M2 paired with Emulex M72KR-E is not working in Microsoft Hyper-V Server 2012 with SAN boot arrays like HDS VSP/USP and NetApp FAS 3120 (CSCuc78542)

Limitations

- 1 Cisco VIC 1280 is not supported on the B250 M2 server.
- 2 Windows 8 hangs while installing on vSphere 5.0i U1.

Workaround

- a Right-click the **Virtual Machine** icon. In the Options tab, click **Edit Settings**.
- b In the Advanced area, click **General** and then click **Configuration Parameters**.
- c Click **Add Row**. In the Name field, enter **vmGenCounter.enable** and in the Value field, enter **False**.
- d Click **OK** to save the changes and then close the window.
- e Power on the virtual machine. Windows 8 will be booted successfully.

- 3 Microsoft Windows 8 is not available as an OS version while creating a virtual machine on RHEL Hypervisor 6.3.

Workaround

While creating a virtual machine, choose the OS type as Windows and the OS version as Microsoft Windows 7. The Windows 8 / Windows 8 Enterprise OS will be installed successfully.

- 4 ESXi 5.1 installation with the QLogic (M72KR-Q) adapter requires Cisco Custom image.

Related Documentation

Cisco UCS B-Series Servers Documentation Roadmap

http://www.cisco.com/en/US/docs/unified_computing/ucs/overview/guide/UCS_roadmap.html

Software Download

<http://www.cisco.com/cisco/software/type.html?mdfid=283853163&flowid=25821>

Cisco Unified Computing System—Technical References

http://www.cisco.com/en/US/products/ps10477/prod_technical_reference_list.html

Hitachi Storage Models for Cisco UCS

<http://www.hds.com/assets/pdf/all-storage-models-for-cisco-ucs.pdf>

EMC Support Matrix

<http://www.emc.com/collateral/elab/clariion-ax4-series-sm.pdf>

E-Lab Interoperability Navigator

<https://elabnavigator.emc.com/>

NetApp Support

<http://support.netapp.com/>

Hardware and Software Interoperability Matrix

http://www.cisco.com/en/US/docs/unified_computing/ucs/interoperability/matrix/r_hcl_B_rel2.04.pdf

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