

Dell™ with Oracle® Database 12c R1 on RHEL 6.5 and OL 6.5 with Compatible Kernel



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Minimum Hardware / Software Requirements (Updated 3/10/2014—for details, see below)	
	Dell Validated Components
Oracle Software & Licenses	Oracle Database 12c R1
Oracle Patch Set	Oracle Database 12c R1 Patch Set 12.1.0.1
Operating System	RHEL 6.5 with kernel 2.6.32-431.el6.x86_64 Oracle Linux 6.5 with kernel 2.6.32-431.el6.x86_64
Recommended Support Contract	Dell ProSupport and Oracle supported
Supported PowerEdge Servers	12g: R620, R720, R820, R920, M620, M820 11g: R715, R815, R610, R710
Memory	All valid PowerEdge memory configurations
Dell EqualLogic Storage Array	PS6110
Dell Compellent Storage Array	SC8000, SC-40
Dell PowerVault Storage	MD3260, MD3660f
Fibre Channel Switch	Brocade 6510, 6505, 6520, 300
HBAs	Qlogic: QLE256x, QLE266x, QME2575, QME2662 Dell SAS 6 Gbps HBA
Ethernet Interfaces	Broadcom: BCM5709 BCM5720, BCM57711, BCM57800 Intel x540
Ethernet Switches for iSCSI Network	PowerConnect M8024-k
Ethernet Switches for Private Interconnect	Force10 S55, S60, S4810, S4820T, MXL 10/40 GbE
RAID Controllers (for internal storage only)	H310, H710P, H730P
Internal Disk Drive	All valid PowerEdge internal storage configurations

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	Single Node minimum configuration	RAC minimum configuration
PowerEdge Servers	1 only	2 only
Memory	1 DIMM / channel / processor	1 DIMM / channel / processor
Host Ports (per node)	N/A	Public Network (1 GbE / 10 GbE) : 1 Private Network (1 GbE / 10 GbE) : 2 Storage Network (iSCSI, FC, SAS) : 2
Network Switches	N/A	Public Network (1 GbE / 10 GbE) : 1 Private Network (1 GbE / 10 GbE) : 2 Storage Network (iSCSI, FC) : 2
RAID Controllers (for internal storage only)	1	1
Internal Disk Drive	73 GB RAID1	73 GB RAID1

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Dell PowerEdge Servers				
	Model	BIOS	ESM — BMC Firmware	Notes
Dell 11g PowerEdge Servers	R715, R815	3.0.5	1.95 A00 (iDRAC6)	
Dell 12g PowerEdge Servers	R620, R720	1.6.0	1.40.40, A00 (iDRAC7)	
	R820	1.5.0	1.40.40, A00 (iDRAC7)	
	R920	1.0.1	1.45.45 (iDRAC7)	
	M620	1.6.1	1.37.35, A00 (iDRAC7)	Blade Server
	M820	1.5.1	1.37.35, A00 (iDRAC7)	Blade Server

Internal Disks RAID		
Model	Firmware	Driver
H310	20.11.0-0002, A05	06.505.02.00 (megaraid_sas)
H710P	21.2.0-0007, A03	06.505.02.00 (megaraid_sas)
H710	21.2.0-0007, A03	06.504.01.00 (megaraid_sas)
H730p	25.2.0.0013	06.700.06.00 (megaraid_sas)

Network Interconnect	
Model	Driver
Broadcom NetXtreme II GbE Family of Adapters	Driver version (bnx2) = 2.2.3n
Broadcom NetXtreme GbE Family of Adapters	Driver version (tg3) = 3.124
Broadcom NetXtreme II 10 GbE Family of Adapters	Driver version (bnx2x) = 1.76.54
Intel x540	Driver version = 3.9.15-k

Ethernet Switches	
Dell Force10 S60	Force10 OS (FTOS) = 8.3.3.8 or higher
Dell Force10 4810	Force10 OS (FTOS) = 8.3.12.1 or higher
Dell Force10 4820T	Force10 OS (FTOS) = 8.3.10.2 or higher
Dell Force10 MXL 10GbE Blade Switch	Force10 OS (FTOS) = 8.3.16.4, A03 or higher

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iSCSI SAN Switches	
Dell PowerConnect M8024-k	Firmware Version = 5.1.3.7, A13 or higher
Dell Force10 S60	Force10 OS (FTOS) = 8.3.3.8 or higher
Dell Force10 S4810, S4820T	Force10 OS (FTOS) = 8.3.12.1 or higher

Brocade FibreChannel Switches	
6505, 6510, 300	Firmware Version = 6.2.0c or higher

FibreChannel and SAS HBAs	
QLogic HBAs	
QME 2662, QME 2573	Bios = 3.00; Driver version = 8.04.00.08.39.0-k
QLE256x, QLE 266x	Bios = 3.00; Driver version = 8.05.00.03.39.0-k
Dell HBAs	
Dell 6 Gbps SAS HBA	Firmware version = 00.10.51.00.60.12.05.00, A05; Driver version = 4.00.38.02-3, A05

FiberChannel and SAS Storage	
Dell PowerVault SAS Storage	MD3260 Firmware = 10.84.44.60
Dell PowerVault FC Storage	MD3660f Firmware = 10.84.G6.44
Dell Compellent SC8000	Storage Center 6.4 or higher

iSCSI Storage	
EqualLogic Storage	Software v7.0.2 or higher

Software	
Oracle	Oracle 12c R1 12.1.0.1
Operating system	RHEL 6.5 with kernel 2.6.32-431.el6.x86_64
Dell Systems Management Tools and Documentation DVD	DVD provided by your Dell PowerEdge Server Bundle (support.dell.com)

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