

Red Hat Enterprise Linux technology capabilities and limits 3

Red Hat Enterprise Linux technology capabilities and limits

: <https://access.redhat.com/articles/rhel-limits>

Red Hat® Enterprise Linux®

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¹⁾

	3	4	5	6	7
CPU ²⁾					
x86	16	32	32	32	³⁾
Itanium 2	8	256 [512]	256 [1024]	⁴⁾	⁵⁾
x86_64	8	64 [64]	160 [255]	288 [4096] ⁶⁾	288 [5120] ⁷⁾
POWER	8	64 [128]	128	128	192 [2048]
System z	64 (z900)	64 (z10 EC)	64 (z13)	64 (z13)	282 (z13)
⁸⁾					
x86	64GB ⁹⁾	64GB ¹⁰⁾	16GB ¹¹⁾	16GB ¹²⁾	¹³⁾
Itanium 2	128GB	2TB	2TB	¹⁴⁾	¹⁵⁾
x86_64	128GB	256GB [1TB]	1TB	12TB [64TB] ¹⁶⁾	12TB [64TB] ¹⁷⁾
POWER	64GB	128GB [1TB]	512GB [1TB]	2TB	2TB
System z	256GB (z900)	1.5TB (z10 EC)	4TB (z13)	4TB (z13)	10TB (z13)
(“sd”)					
	256	256 ¹⁸⁾	1,024 ¹⁹⁾ , ²⁰⁾	8,192 ²¹⁾ ²²⁾	10,000 ²³⁾ ²⁴⁾
x86	256MB	256MB	512MB / 1 GB / CPU	512MB / 1 GB / CPU	²⁵⁾
x86_64	256MB	256MB	512MB / 1 GB / CPU	1GB / 1 GB / CPU	1GB / 1 GB / CPU
Itanium 2	512MB	512MB	512MB / 1 GB / CPU	²⁶⁾	²⁷⁾
POWER	512MB	512MB	1GB / 2GB	2GB / 2GB	2GB / 2GB
	800MB	800MB	1GB / 5GB	1GB / 5GB	10GB / 20GB
(Ext3)	2TB	2TB	2TB	2TB	2TB
(Ext3)	2TB	8TB	16TB	16TB	16TB
(Ext3)	32000	32000	32000	32000	32000

	3	4	5	6	7
(Ext3)	8	8	8	8	8
ACL (Ext3)					
(Ext4)	-	-	16TB	16TB	16TB
(Ext4)	-	-	65000 /	65000 /	65000 /
(Ext4)	-	-	8	8	8
ACL (Ext4)	-	-			
(Ext4)	-	-	16TB [1EB]	16TB [1EB]	50TB [1EB]
(GFS)	2TB	16TB [8EB]	16TB [8EB] ²⁸⁾		
(GFS)	2TB	16TB [8EB]	16TB [8EB] ²⁹⁾		
(GFS2)	-	-	100TB [8EB]	100TB [8EB]	100TB [8EB]
(GFS2)	-	-	100TB [8EB]	100TB [8EB]	100TB [8EB]
(XFS)	-	-	100TB [8EB]	100TB [8EB]	500TB [8EB]
(XFS)	-	-	100TB [16EB]	100TB [16EB]	500TB [16EB]
(XFS)	-	-			
(XFS)	-	-	8	8	8
ACL (XFS)					
LUN (BIOS)	-	-	2TB	2TB ³⁰⁾	2TB ³¹⁾
LUN (UEFI)	-	-	N / A	32bit (i686) - 2TB, 64bit - 16TB ()	50TB
(x86) 가	4GB	4GB	3GB ³²⁾	3GB ³³⁾	³⁴⁾
x86_64 가		512GB	2TB	128TB	128TB
OS					
	Linux 2.4.21	Linux 2.6.9	Linux 2.6.18	2.6.32 - 2.6.34	3.10
/	GCC 3.2	GCC 3.4	GCC 4.1	GCC 4.4	GCC 4.8.2
	10	15	19	22	22
NIAP / CC 11	(3+)	(4+)	(4+)	(4+)	가 (4+)
Common Criteria KVM 11	-	-	가	가	가
IPv6	-	-	Phase 2	Phase 2	가
FIPS 11	-	-	(7)	(8)	가 (9)

	3	4	5	6	7
Common Operating Environment (COE)					
LSB	- 1.3	- 3	- 3.1	- 4.0	가 (4.1)
GB18030					
GUI	Gnome 2.2	Gnome 2.8	Gnome 2.16	Gnome 2.28	Gnome 3.8
	XFree86	X.org	X.org 7.1.1	X.org 7.4	X.org 7.7
OpenOffice	V1.1	V1.1.2	V2.0.4 12	V3.2 12	LibreOffice V4.1.4 12
Gnome Evolution	V1.4	V2.0	V2.8.0	V2.28	V3.8.5
	Mozilla	Firefox	Firefox 1.5 12	Firefox 3.6 12	Firefox 24.5 12

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: 1. Red Hat

Red Hat

Hardware Catalog 가 Hardware Catalog , Red Hat Enterprise Linux 가

2. Red Hat

CPU 가 /

CPU 3. “SMP” 16GB RAM . 16GB 가 12GB “Hugemem” . 4. x86 “Hugemem” Red Hat Enterprise Linux 5 6 . 5. Red Hat Enterprise Linux 6 46 Red Hat Enterprise Linux 5 40 . NUMA 6. Red Hat Enterprise Linux 6 Itanium 2 Red Hat Enterprise Linux 7 Itanium 2 32 x86 7. 32 , gfs 8. 16TB . 9. Intel EPT AMD RVI 10. 2TB 125 CPU LUN UEFI GPT . 11. 가 <https://access.redhat.com/kb/docs/DOC-16981> 12. Firefox, Thunderbird OpenOffice 가 가 , EMC社 13. Red Hat Enterprise Linux 5 8,192 , Red Hat Red Hat 14. Red Hat 15. 12TB RAM Red Hat Enterprise Linux 6.6 . Red Hat Enterprise Linux 6 (Red Hat Enterprise Linux 6.3) 3TB RAM . Red Hat Enterprise Linux 6.3 Red Hat Enterprise Linux 1TB RAM . 16. 12TB RAM Red Hat Enterprise Linux 7.2 . 6TB RAM Red Hat Enterprise Linux 7.1 . Red Hat Enterprise Linux 7 (Red Hat Enterprise Linux 7.0) 3TB RAM 17. 288 CPU Red Hat Enterprise Linux 7.1 Red Hat Enterprise Linux 6.7 CPU 240 .

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Red Hat Hardware Catalog 가 Red Hat Hardware Catalog 가 , Red Hat Enterprise Linux 가

2)

Red Hat CPU 가 / CPU

3) , 4) , 5) , 13) , 14) , 15) , 25) , 26) , 27) , 34)

Red Hat Enterprise Linux 6 Itanium 2 Red Hat Enterprise Linux 7 Itanium 2 32 x86

6) 7)

288 CPU Red Hat Enterprise Linux 7.1 CPU 240 Red Hat Enterprise Linux 6.7

8)

Red Hat Enterprise Linux Red Hat Enterprise Linux 6 46 Red Hat Enterprise Linux 5 40 NUMA 가 NUMA

9) 10)

“SMP” 16GB RAM 16GB 가 12GB “Hugemem” 가

11) 12) 32) 33)

x86 “Hugemem” Red Hat Enterprise Linux 5 6

12TB RAM Red Hat Enterprise Linux 6.7 6TB RAM Red Hat Enterprise Linux 6.6 Red Hat Enterprise Linux 6 (Red Hat Enterprise Linux 6.3) 3TB RAM Red Hat Enterprise Linux 6.3 Red Hat Enterprise Linux 1TB RAM

17)

12TB RAM Red Hat Enterprise Linux 7.2 6TB RAM Red Hat Enterprise Linux 7.1 Red Hat Enterprise Linux 7 (Red Hat Enterprise Linux 7.0) 3TB RAM

18) 19) 21) 23)

Enterprise Linux 5 8,192 가 가 , EMC社 Red Hat Red Hat Red Hat

20) 22) 24)

28) 29)

32 , gfs 16TB 가 64 8EB

30) 31)

2TB LUN UEFI GPT <https://access.redhat.com/kb/docs/DOC-16981>

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