

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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	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)	-	-	8	8	8
ACL (XFS)					
LUN (BIOS)	-	-	2TB	2TB 10	2TB 10
LUN (UEFI)	-	-	N / A	32bit (i686) - 2TB, 64bit - 16TB ()	50TB
(x86) 가	4GB	4GB	3GB ³⁰⁾	3GB ³¹⁾	³²⁾
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

Catalog , 가 , Red Hat Enterprise Linux 가

. 2. Red Hat

CPU 가 / /

CPU . 3. "SMP" 16GB RAM . 16GB

"Hugemem" 가 12GB

"Hugemem" 가 . 4. x86 "Hugemem"

Red Hat Enterprise Linux 5 6 . 5. Red Hat Enterprise Linux 6 46

Linux . Red Hat Enterprise Linux 5 40

. NUMA

NUMA 가 . 6. Red Hat Enterprise Linux 6 Itanium 2

. Red Hat Enterprise Linux 7 Itanium 2 32 x86

. 7. 32 , gfs

16TB . 가 64 8EB . 8.

125 CPU . 9. Intel EPT AMD RVI . 10. 2TB

LUN UEFI GPT

<https://access.redhat.com/kb/docs/DOC-16981> . 11. 가

. 12. Firefox, Thunderbird OpenOffice

. 13. 가 가 , EMC社

Red Hat Enterprise Linux 5 8,192

, Red Hat 가

Red Hat . 14.

. Red Hat . 15. 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 . 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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Hardware Catalog

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Hardware Catalog

, Red Hat Enterprise Linux

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CPU

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CPU

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3) 4) 5) 13) 14) 15) 25) 26) 27) 32)

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

Red Hat Enterprise Linux 6.7

CPU 240

8)

Red Hat Enterprise Linux

Red Hat Enterprise Linux 6 46

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Hat Enterprise Linux 5 40

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9) 10)

“SMP” 16GB RAM

. 16GB

“Hugemem”

가 12GB

“Hugemem”

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11) 12) 30) 31)

x86 “Hugemem” Red Hat Enterprise Linux 5 6

16)

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)

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, EMC社 Red Hat

Enterprise Linux 5 8,192

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32 가 64

, gfs 8EB

16TB

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