

**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®  
1)

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	3	4	5	6	7
<b>CPU</b> 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)
<b>(“sd” )</b>					
	256	256 18)	1,024 (가 가 , EMC社 Red Hat Enterprise Linux 5 8,192 , Red Hat 가 Red Hat .), 19)	8,192 20) 21)	10,000 22) 23)
x86	256MB	256MB	512MB / 1 GB / CPU	512MB / 1 GB / CPU	24)
x86_64	256MB	256MB	512MB / 1 GB / CPU	1GB / 1 GB / CPU	1GB / 1 GB CPU

	3	4	5	6	7
Itanium 2	512MB	512MB	512MB / 1 GB / CPU	25)	26)
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
(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] <sup>27)</sup>		
(GFS)	2TB	16TB [8EB]	16TB [8EB] <sup>28)</sup>		
(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 10	2TB 10

	3	4	5	6	7
LUN (UEFI)	-	-	N / A	32bit (i686) - 2TB, 64bit - 16TB ( )	50TB
가 (x86)	4GB	4GB	3GB <sup>29)</sup>	3GB <sup>30)</sup>	<sup>31)</sup>
가 x86_64		512GB	2TB	128TB	128TB
<b>OS</b>					
	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 )
Common Operating Environment (COE)					
LSB	- 1.3	- 3	- 3.1	- 4.0	가 (4.1)
GB18030					
<b>GUI</b>					
	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

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

2. Red Hat

CPU 가 / /

CPU . 3. "SMP" 16GB RAM . 16GB 가 12GB "Hugemem"

"Hugemem" 가 . 4. x86 "Hugemem"

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

Red Hat Enterprise Linux 5 40

NUMA 가 . NUMA  
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 . 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 .

1)  
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) , 24) , 25) , 26) , 31)  
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 . Red  
Hat Enterprise Linux 5 40 . NUMA  
9) , 10) NUMA 가 .  
"SMP" 16GB RAM . 16GB  
"Hugemem" 가 12GB  
"Hugemem" 가 .  
11) , 12) , 29) , 30)  
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  
 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  
 Hat Enterprise Linux 7.1 . Red Hat Enterprise Linux 7 ( Red Hat Enterprise  
 Linux 7.0) 3TB RAM .  
 18) 20) 22)

Enterprise Linux 5 8,192 가 가 . , EMC社 Red Hat  
 , Red Hat 가 Red  
 Hat  
 19) 21) 23)

. Red Hat  
 27) 28)

32 , gfs 16TB  
 가 64 8EB .

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