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	rhel6_
Last	-
update:	-
2016/05/03	- https://atl.kr/dokuwiki/doku.php/rhel6_%EA%B8%B0%EB%B3%B8_%EC%84%A4%EC%B9%98_%EB%B0%8F_%EC%84%A4%EC%A0%95_%EA%B0%80%EC%9D%B4%EB%93%9C
07:46	-가

RedHat Enterprise Linux 6

가

Platform

- Version : RHEL6
- : x86, AMD64, Intel64 # x86_64bit
- Kernel : RHEL 6(Linux 2.6.32),
- : x86_64 : 64TB
- 1. : ext4-16TB:
 2. : ext4-16TB
- : 22
- : 1G / 5G
- URL : <http://www.redhat.com/products/enterprise-linux/server/compare.html>

Partition

OS (300G)

	(GB)						
Primary(sda1)	/boot	2G	kernel		platform		(v2.0)
Primary(sda3)	Swap		* 1.5	8G	8G	8G	1.5
platform	(v2.0)						
Primary(sda2)	/	60G	60G				

DATA

- DATA LVM . OS LVM
- Default Inode 2 .
- DATA fstab
- Internal Disk OS , LVM /boot
- DATA ,
- SAN Disk VGName vgwork11~ vgwork12, vgwork21~ vgwork22 (LVM Stripe
-)
- LVM Stripe
- LVM

Application

(GB)

/dev/vgwork11/netbackup	/netbackup	5G	Apache, tomcat
/dev/vgwork11/was_mms	/was_mms	10G	
/dev/vgwork11/was_sms	/was_sms	10G	

Oracle Services

	(GB)		
/dev/vgwork11/oracle	/oracle	30G	Oracle
/dev/vgwork11/oradata	/oradata	400G	
/dev/vgwork11/archive	/archive	100G	
/dev/vgwork11/oratrace	/oratrace	50G	
/dev/vgwork11/dbawork	/dbawork	100G	

OS




- Install or upgrade an existing system

Welcome to Red Hat Enterprise Linux for x86_64



- skip

What language would you like to use during the installation process?

Hebrew (עברית)

Hindi (हिन्दी)

Hungarian (Magyar)

Icelandic (Icelandic)

Iloko (Iloko)

Indonesian (Indonesia)

Italian (Italiano)

Japanese (日本語)

Kannada (ಕನ್ನಡ)

Korean (한국어)

Macedonian (Македонски)

Maithili (मैथिली)

Malay (Melayu)

Malayalam (മലയാളം)

Marathi (मराठी)

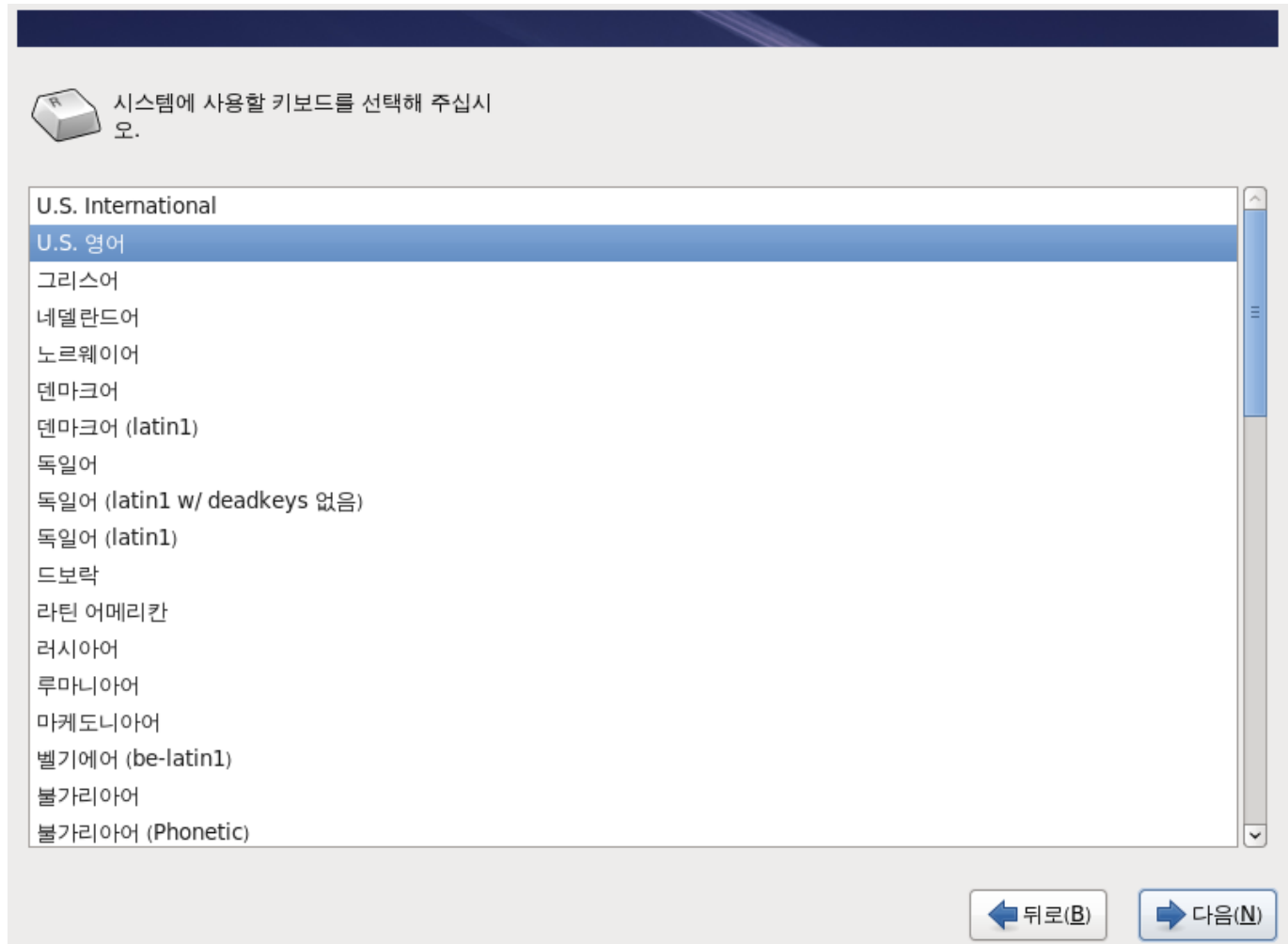
Nepali (Nepali)

Northern Sotho (Northern Sotho)

Back

Next

- Korean() ()



- : U.S.

설치와 관련된 장치의 종류는 무엇입니까?

기본 저장 장치

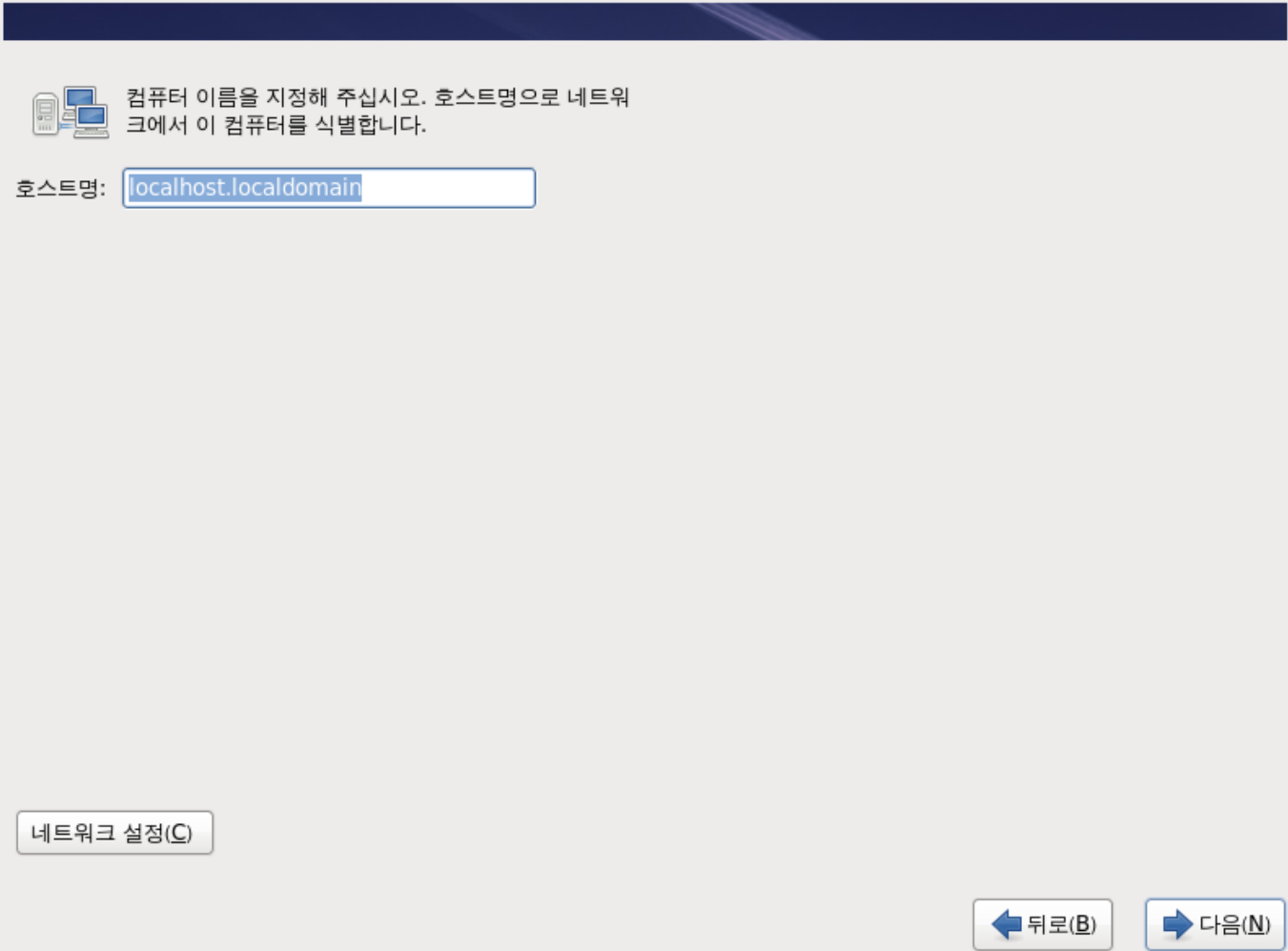
- ☒ 전형적인 저장 장치에 설치 또는 업그레이드를 진행합니다. 어떤 옵션이 여러분에게 맞는지 모르신다면, 이 옵션을 선택하십시오.

특별한 저장 장치

- ☐ 저장소 지역 네트워크(Storage Area Network, SANs)과 같은 엔터프라이즈 장치를 설치하거나 업그레이드 합니다. 이 옵션을 사용하면 FCoE / iSCSI / zFCP 디스크를 추가하거나, 설치 프로그램이 무시해야하는 장치를 지정할 수 있습니다.

← 뒤로(B)

→ 다음(N)



컴퓨터 이름을 지정해 주십시오. 호스트명으로 네트워크에서 이 컴퓨터를 식별합니다.

호스트명:

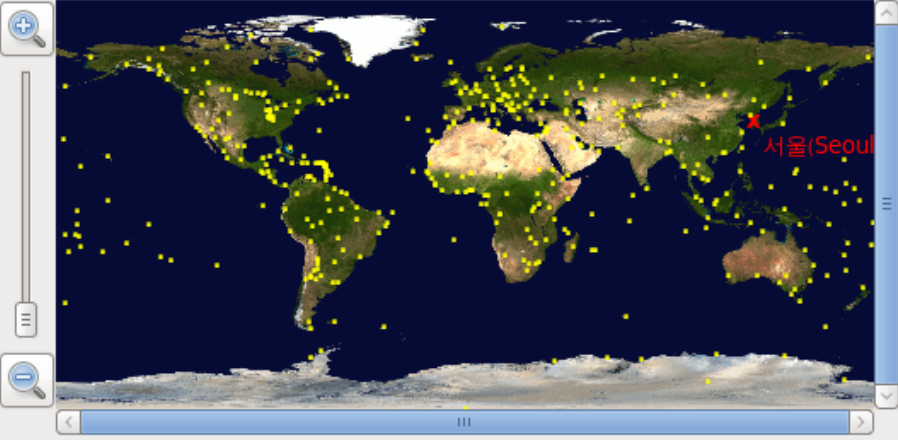
네트워크 설정(C)

◀ 뒤로(B) ▶ 다음(N)

- Full Name .
- .

Timezone

속한 시간대에서 가장 근접한 도시를 선택해 주십시오:




선택한 도시: 서울(Seoul), 아시아

아시아/서울(Seoul)

☐ 시스템의 시간을 UTC에 맞춤(S)

← 뒤로(B) 다음(N) →

- Asia/Seoul
- UTC , (TSC ; VM
- !!)



루트(root) 계정은 시스템 관리에 사용됩니다. 루트 (root) 사용자 암호를 입력하십시오.

Root 암호(P):

확인(C):

← 뒤로(B) → 다음(N)

•

. 가

.

어떤 종류의 설치를 원하십니까?



모든 공간 사용

선택된 드라이브의 모든 파티션을 삭제합니다. 다른 운영체제가 만든 파티션도 함께 삭제합니다.

팁: 이 선택사항은 선택한 드라이브의 모든 데이터를 삭제할 것입니다. 백업을 했는지 확인하십시오.



기존의 Linux 시스템 교체

(이전의 리눅스 설치가 생성한) 리눅스 파티션만을 제거합니다. 저장 디바이스에 있는 다른 파티션(예를 들어 VFAT이나 FAT32)은 삭제하지 않습니다.

팁: 선택한 장치의 데이터가 삭제될 것입니다. 백업을 했는지 확인하십시오.



현재 시스템 축소하기

기본 레이아웃을 위해 필요한 여유 공간을 만들기 위해 기존 파티션의 크기를 줄입니다.



여유공간 사용

여유 공간이 충분히 있는 경우, 여러분의 현재 데이터와 파티션을 보존하고, 선택한 디바이스에 있는 파티션 되지 않은 공간만을 활용합니다.



사용자 레이아웃 만들기

선택한 장치에 파티션 도구를 활용해 여러분 자신의 사용자 레이아웃을 수동으로 만듭니다.

☐ 시스템 암호화(E)

☒ 파티션 레이아웃 확인 및 변경(V)

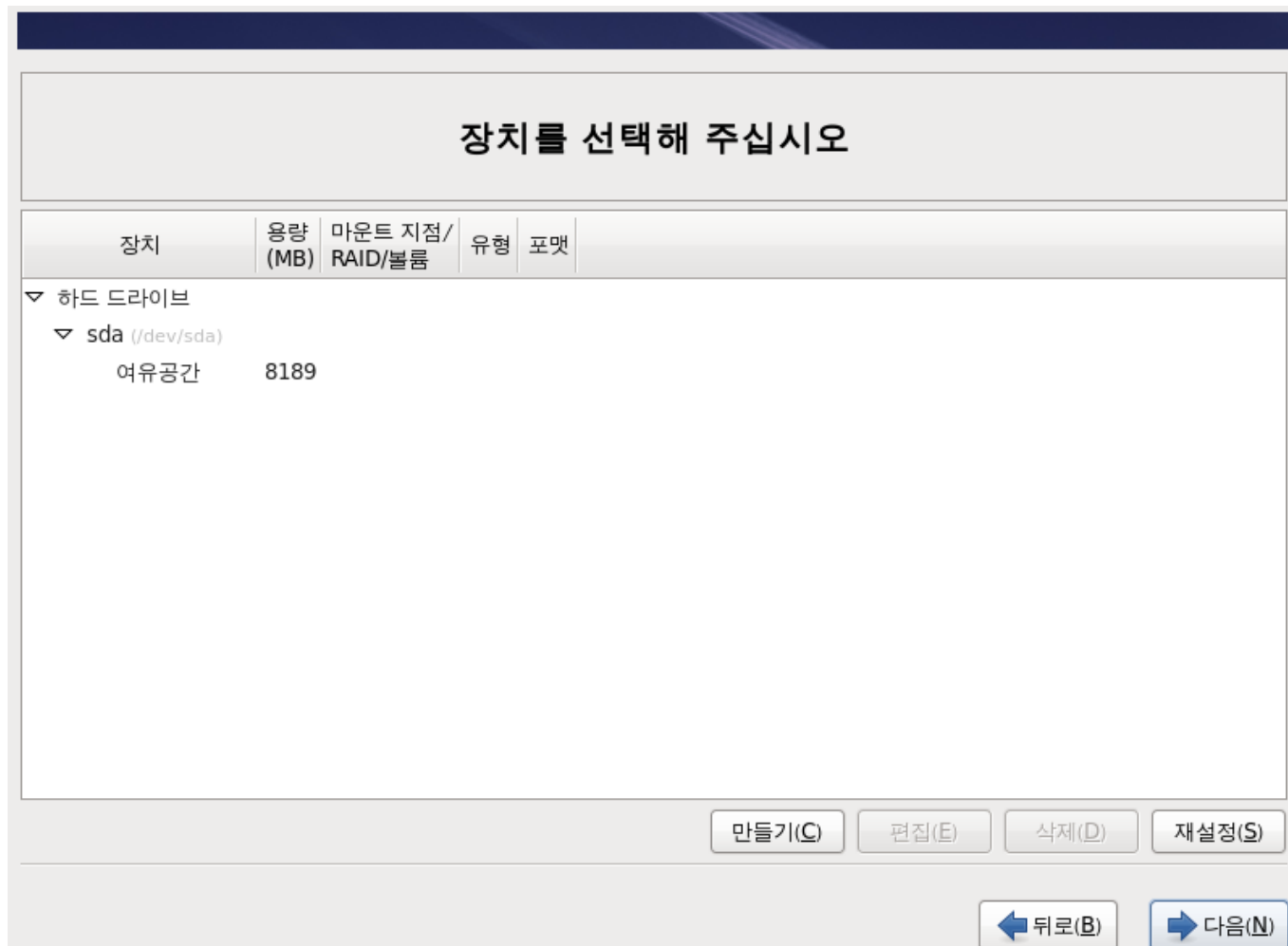
← 뒤로(B)

→ 다음(N)

•
•

“

”



-

☒ /dev/sda 상에 부트로더 설치(I) 장치 변경(C)

☐ 부트로더 암호 사용(U) 암호 변경(P)

부트로더 운영 체제 목록

기본부팅	레이블	장치
<input checked="" type="radio"/>	Red Hat Enterprise Linux	/dev/sda2

추가(A)
편집(E)
삭제(D)

뒤로(B)

다음(N)

- . (default)

Red Hat Enterprise Linux의 디폴트 설치하는 기본 서버 설치입니다. 다른 소프트웨어들을 지금 선택할 수 있습니다.

☐ 기본 서버
☐ 데이터베이스 서버
☐ 웹 서버
☐ ID 관리 서버
☐ 가상화 호스트
☒ 데스크탑
☐ 소프트웨어 개발 워크스테이션
☐ 가상화 호스트

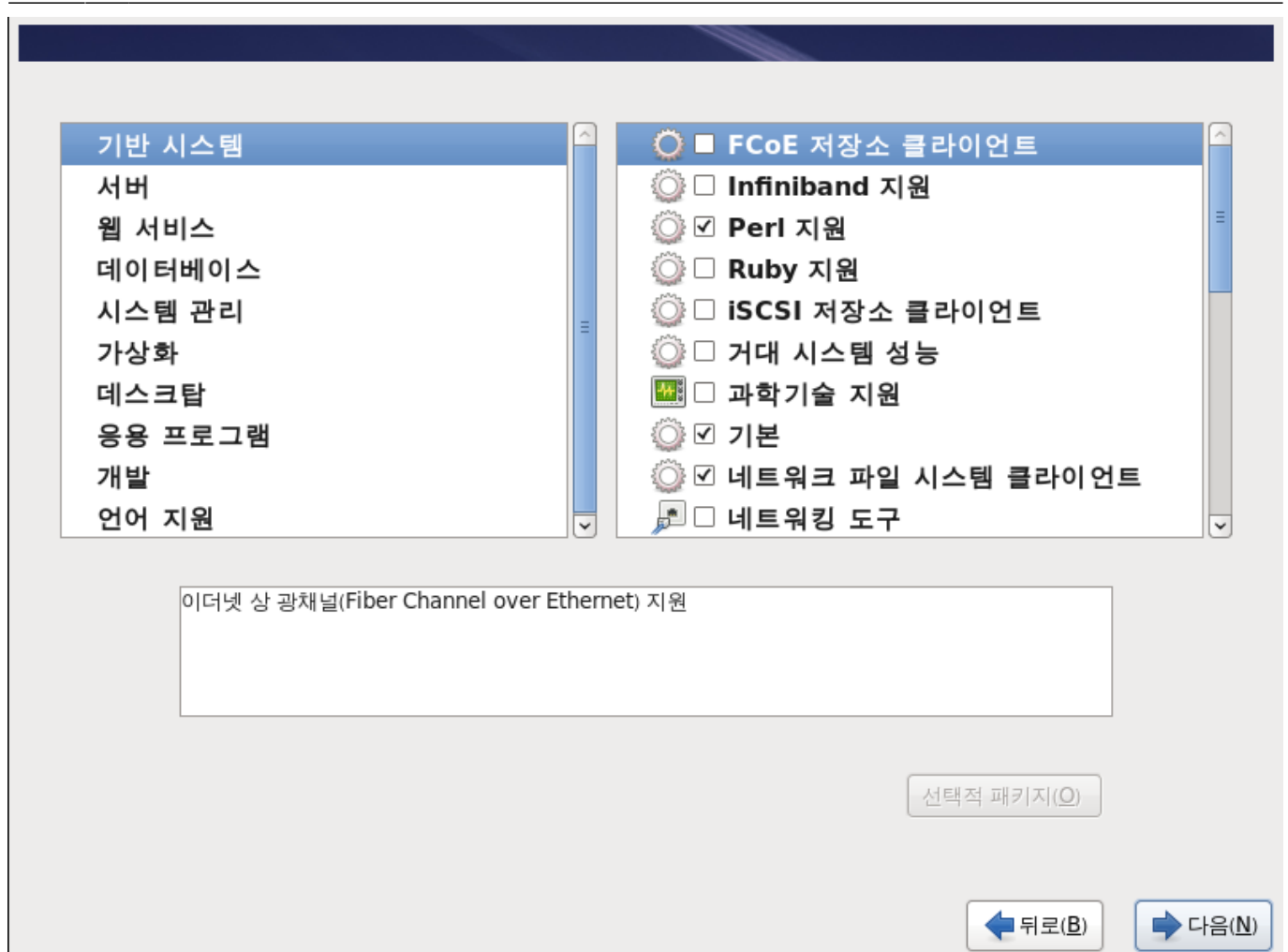
소프트웨어 설치에 사용하고자 하는 추가적인 리포지토리를 선택해 주십시오.

☒ Red Hat Enterprise Linux
☐ 고 가용성
☐ 내결함성 스토리지
☐ 레노바 리얼타임 모니터링

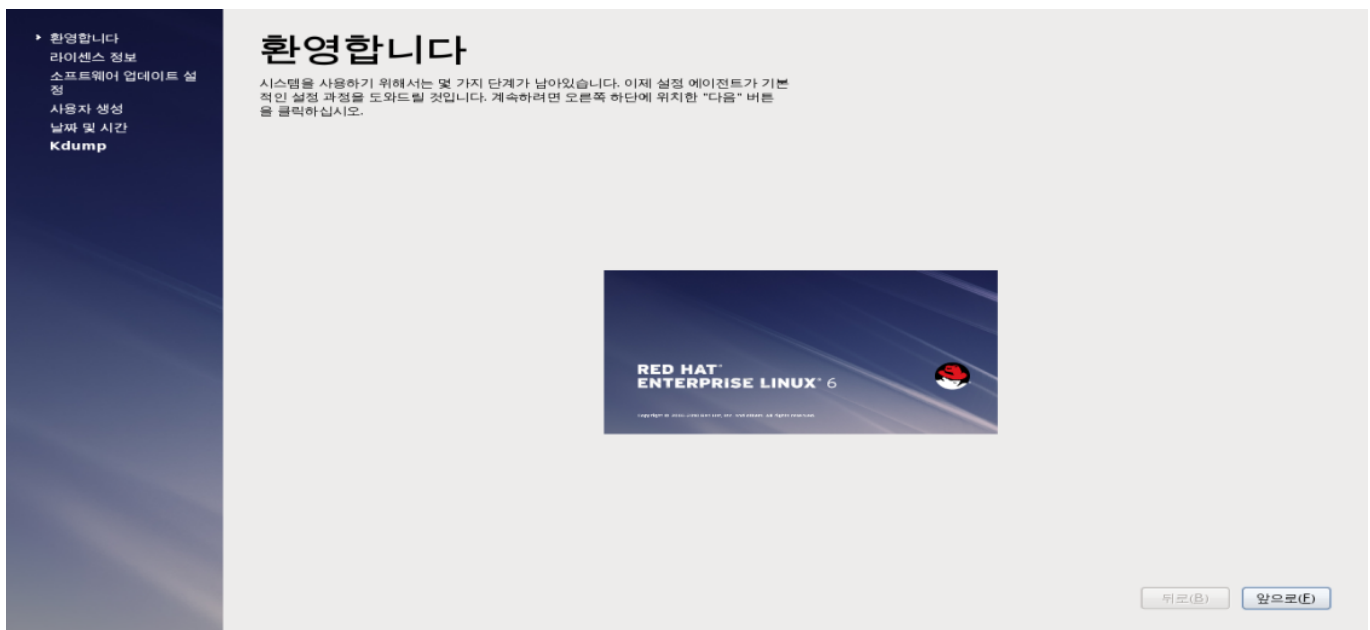
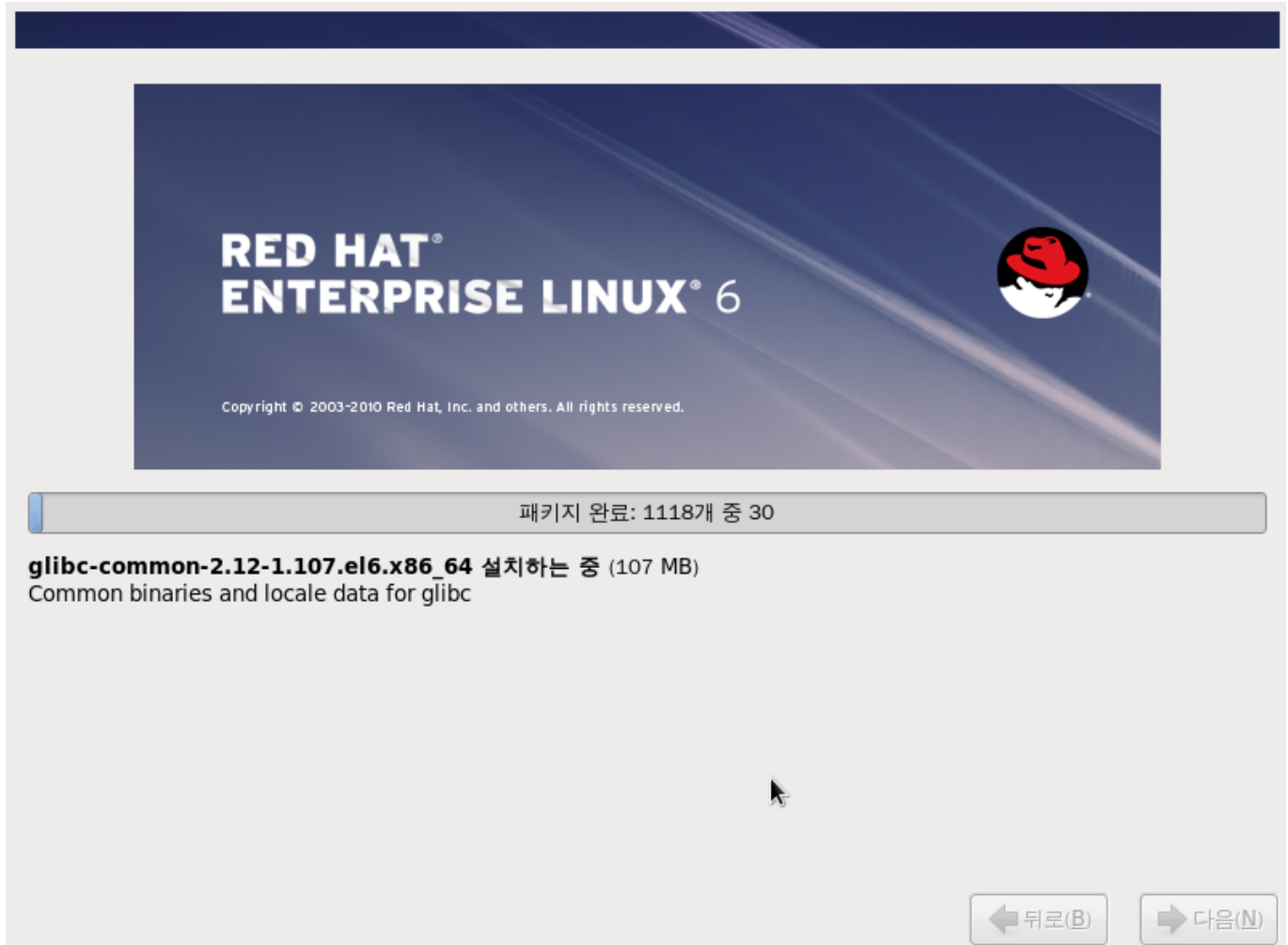
지금 소프트웨어 선택을 더 진행하실 수도 있고, 설치 후 소프트웨어 관리 프로그램으로 추가 설치를 할 수도 있습니다.

☐ 나중에 변경(L) ☒ 지금 선택(C)

- “ , Red Hat Enterprise Linux, ”



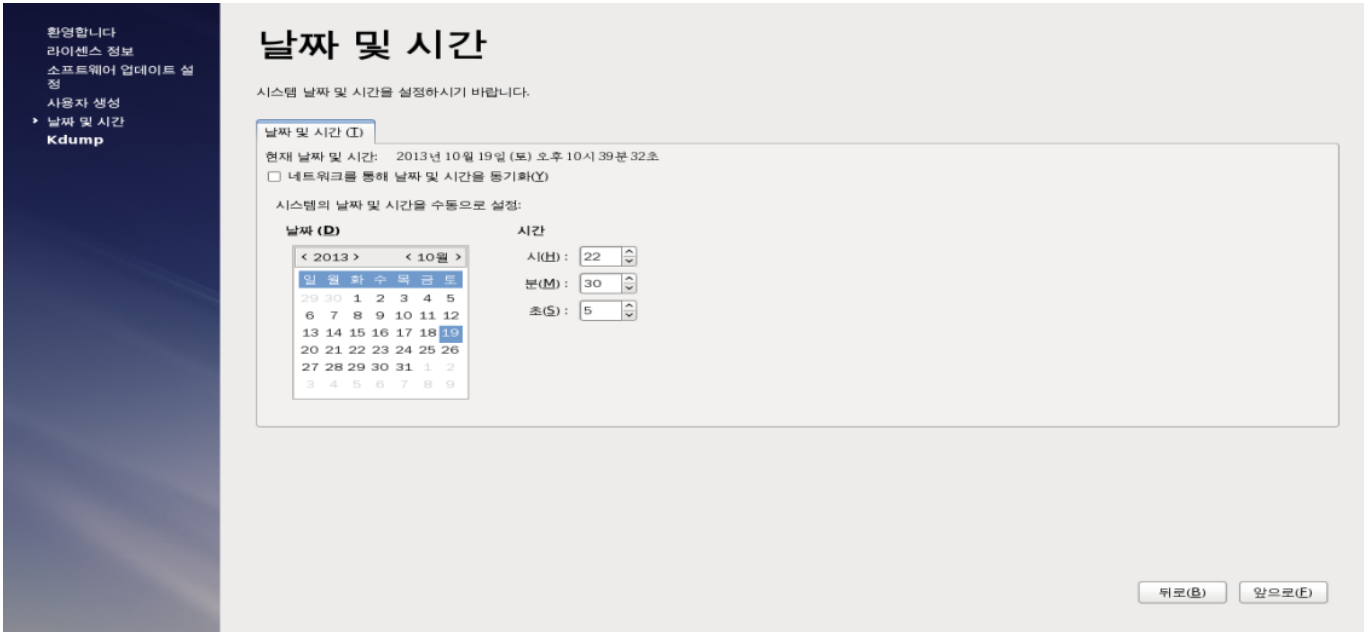
- Rpm Package



가

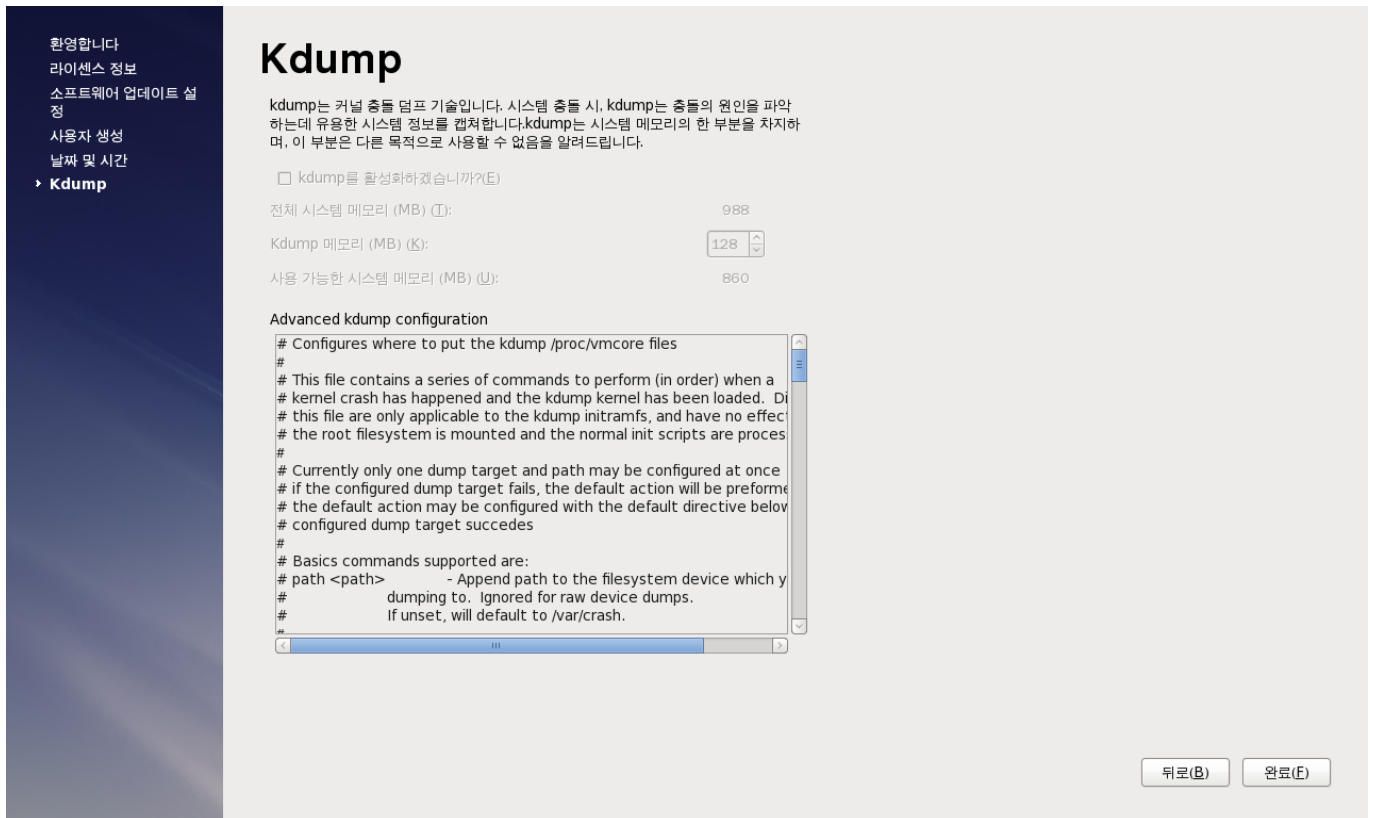


- 가 . ()



- NTP .

Kdump



- Kdump

RPM Package

1. . (Base System)
 1. FCoE (FCoE Storage Client)
 2. Infiniband (Infiniband Support)
 3. ISCSI (iSCSI Storage Client)
 4. (Large Systems Performance)
 5. (Base)
 6. (Network file system client)
 7. (Networking Tools)
 1. Optional - nmap
 8. (Directory Client)
 9. (Debugging Tools)
 10. (Legacy UNIX compatibility)
 1. Optional - telnet, telnet-server
 11. (Mainframe Access)
 12. (Performance Tools)
 1. Optional- sg3_util
 13. 가 (Storage Availability Tools)
 14. (Hardware monitoring utilities)
 1. Optional - lm_sensor
 15. (Compatibility libraries)
 16. (Dial-up Networking Support)
 1. Optional - lrzsz ,
2. . (Servers)
 1. FTP (FTP Server)

2. (Server Platform)
3. (System administration tools)
3. . (System Management)
 1. SNMP (SNMP Support)
 2. (System Management)
 1. Optional - OpenIPMI
4. . (Desktop) ※ KDE Desktop
 1. X Window (X Window System)
 2. (Graphical Administration Tools)
 3. (Desktop)
 4. (Desktop Debugging and Performace Tools)
 5. (Desktop Platform)
 6. X Windows (Legacy X Window System compatibility)
 7. (General Purpose Desktop)
 8. (Remote Desktop Clients)
 9. (Input Method)
 10. (Fonts)
5. . (Applications)
 1. TeX (TeX support)
 2. (Technical Writing)
 3. (Internet Browser)
6. . (Development)
 1. (Development tools)
 2. (Desktop Platform Development)
 3. (Server Platform Development)
 4. 가 (Additional Development)
 1. Optional - oracle-devel (RHEL 5.x)
 2. Optional - net-snmp-devel 가
 3. Optional - java 1,6 or 1.7 (1.7.x가)
7. . (Languages)
 1. (Korean Support)

OS

Kernel Parameter

- /etc/sysctl.conf 가 - #sysctl -p

Kernel Parameter		value	
kernel.msgmni	7644	1024	
kernel.sem	250 32000 32 128	1000 32000 32 512	
kernel.shmmax	68719476736	2147483648	
kernel.threads-max	60827	270335	

Kernel Parameter		value	
net.ipv4.tcp_max_syn_backlog	2048	8192	
net.ipv4.tcp_syncookies	1	1	syn backlog queue가 syncookies
net.ipv4.tcp_fin_timeout	60	30	FIN_WAIT-2
net.ipv4.tcp_keepalive_time	7200	600	Keepalive가 TCP가 Keepalive
net.ipv4.tcp_syn_retries	5	2	TCP SYNC
net.ipv4.tcp_retries2	15	5	TCP
net.core.rmem_default	124928	4194304	
net.core.wmem_default	124928	4194304	
net.core.rmem_max	124928	8388608	
net.core.wmem_max	124928	8388608	
net.ipv4.tcp_mem	364896 486528 729792	8388608 8388608 8388608	TCP stack
net.ipv6.conf.all.disable_ipv6	0	1	Ipv6 off

```
# /etc/sysctl.conf 가 sysctl -p .
kernel.sem = 1000 32000 32 512
kernel.threads-max = 270335
net.ipv4.tcp_max_syn_backlog = 8192
net.ipv4.tcp_keepalive_time = 600

# TCP SYN .
# 255 . 5 , 180 .
# Default : 5
net.ipv4.tcp_syn_retries = 2

# passive TCP 가 SYNACKs . 255
# . 5 , 180 .
# Default : 5
net.ipv4.tcp_synack_retries = 2

# , keepalive probe .
# Default : 9
net.ipv4.tcp_keepalive_probes = 5

# keepalive_probes . probe , probes * intvl
# .
# 11 15 .
# Default : 75
net.ipv4.tcp_keepalive_intvl = 10
```

```
# 가 , network layer reporting
# . RPC 3 , RT0 3
# 8 .
net.ipv4.tcp_retries1 = 3
net.ipv4.tcp_retries2 = 5

# tcp ip
# Decrease the time default value for tcp_fin_timeout connection
# close FIN
# Default : 30
net.ipv4.tcp_fin_timeout = 20

# Socket Buffer Tunning
# .
#
net.core.rmem_default = 4194304
net.core.wmem_default = 4194304
net.core.rmem_max = 8388608
net.core.wmem_max = 8388608
net.ipv4.tcp_mem = 8388608 8388608 8388608

# IPv6 Disable
net.ipv6.conf.all.disable_ipv6 = 1
```

Ulimit

* /etc/security/limits.conf 가

Domain(USER)	type	item	value
* soft	nofile	8192	가
* hard	nofile	65535	가
* soft	nproc	8192	
* soft	core	20480	

Selinux off

```
[user@host]# vi/etc/sysconfig/selinux
SELINUX=disabled
```

Sar collect(10 -> 5)

```
[user@host]# vi /etc/cron.d/sysstat (default value 10)

# run system activity accounting tool every 10 minutes
```

```
*/5 * * * * root /usr/lib64/sa/sa1 1 1
```

Bonding

```
[user@host]# vi /etc/modprobe.d/bonding.conf(          )
alias bond0 bonding
alias bond1 bonding

[user@host]# vi /etc/sysconfig/network-scripts/ifcfg-bond*
DEVICE = bond*
BOOTPROTO = static
ONBOOT = yes
IPADDR = xxx.xxx.xxx.xxx
NETMASK = xxx.xxx.xxx.xxx
GATEWAY = xxx.xxx.xxx.xxx
USERCTL = no
NM_CONTROLLED=no
BONDING_OPTS = "mode=1 miimon=100"

[user@host]# vi /etc/sysconfig/network-scripts/ifcfg-eth*
DEVICE = eth*
HWADDR=<MAC    >
BOOTPROTO = none
ONBOOT = yes
MASTER = bond0
SLAVE = yes
USERCTL=no
NM_CONTROLLED=no
```



- bonding bond0(public), bond1(private) ()
- public gateway , private gateway
- bonding 가 gateway

LVM (DATA , Oracle)



LVM Type Filesystem



Direct PV

fdisk -l

PV

가

LVM Type

Filesystem

PV

. fdisk

-cu

Disk Align

Disk I/O가

fdisk (2TB)

```
[root@host ~]# fdisk -cu /dev/sdc # 1TB
Device contains neither a valid DOS partition table, nor Sun, SGI or OSF
disklabel
Building a new DOS disklabel with disk identifier 0x8404002b.
Changes will remain in memory only, until you decide to write them.
After that, of course, the previous content won't be recoverable.

Warning: invalid flag 0x0000 of partition table 4 will be corrected by
w(rite)
#
Command (m for help): n
Command action
    e   extended
    p   primary partition (1-4)
p
Partition number (1-4): 1
First sector (2048-2147483647, default 2048): [ENTER]
Using default value 2048 # 2048
Last sector, +sectors or +size{K,M,G} (2048-2147483647, default 2147483647):
[ENTER]
Using default value 2147483647 #

Command (m for help): p
Disk /dev/sdc: 1099.5 GB, 1099511627776 bytes
255 heads, 63 sectors/track, 133674 cylinders, total 2147483648 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x8404002b

   Device Boot      Start         End      Blocks   Id  System
/dev/sdc1           2048    2147483647    1073740800    83   Linux
#                               LVM
Command (m for help): t
Selected partition 1
Hex code (type L to list codes): 8E
Changed system type of partition 1 to 8e (Linux LVM)
#
Command (m for help): p
Disk /dev/sdc: 1099.5 GB, 1099511627776 bytes
255 heads, 63 sectors/track, 133674 cylinders, total 2147483648 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk identifier: 0x8404002b

   Device Boot      Start         End      Blocks   Id  System
/dev/sdc1           2048    2147483647    1073740800    8e   Linux LVM
#
Command (m for help): w
```


The partition table has been altered!

Calling ioctl() to re-read partition table.

Syncing disks.

#

[root@security ~]# kpartx /dev/sdc

sdcl : 0 2147481600 /dev/sdc 2048

parted (2TB)

[root@host]# parted /dev/sdb

mklabel GPT (msdos type 2TB 가)

(parted) mklabel

New disk label type? gpt

mkpart LVM

(parted) mkpart

Partition name? []?

File system type? [ext2]? ext4

Start? 1

End? -1

LVM Type

(parted) t

Partition number? 1

Flag to Invert? lvm

(compact)

(parted) u

Unit? [compact]? s

#

(parted) p

Model: VMware, VMware Virtual S (scsi)

Disk /dev/sdb: 20971520s

Sector size (logical/physical): 512B/512B

Partition Table: gpt

Number	Start	End	Size	File system	Name	Flags
1	2048s	20969471s	20967424s			lvm

PV

[user@host]# pvcreate /dev/sdb*

[user@host]# pvdisplay -v

VG

[user@host]# vgcreate VGWORK11 /dev/sdb*

[user@host]# vgdisplay -v

LV

```
[user@host]# lvcreate -L 5G -n netbackup VGWORK11
[user@host]# lvcreate -L 10G -n was_mms VGWORK11
[user@host]# lvcreate -L 10G -n was_sms VGWORK11
[user@host]# lvcreate -L 30G -n oracle VGWORK11
[user@host]# lvcreate -L 400G -n oradata VGWORK11
[user@host]# lvcreate -L 100G -n archive VGWORK11
[user@host]# lvcreate -L 50G -n oratrace VGWORK11
[user@host]# lvcreate -L 100G -n dbawork VGWORK11
```

```
[user@host]# mkfs.ext4 -i 2048 /dev/mapper/VGWORK11-netbackup
[user@host]# mkfs.ext4 -i 2048 /dev/mapper/VGWORK11-was_mms
[user@host]# mkfs.ext4 -i 2048 /dev/mapper/VGWORK11-was_sms
[user@host]# mkfs.ext4 -i 2048 /dev/mapper/VGWORK11-oracle
[user@host]# mkfs.ext4 -i 2048 /dev/mapper/VGWORK11-oradata
[user@host]# mkfs.ext4 -i 2048 /dev/mapper/VGWORK11-archive
[user@host]# mkfs.ext4 -i 2048 /dev/mapper/VGWORK11-oratrace
[user@host]# mkfs.ext4 -i 2048 /dev/mapper/VGWORK11-dbawork

[user@host]# tune2fs -c '-1' -i 0 /dev/mapper/VGWORK11-netbackup
[user@host]# tune2fs -c '-1' -i 0 /dev/mapper/VGWORK11-was_mms
[user@host]# tune2fs -c '-1' -i 0 /dev/mapper/VGWORK11-was_sms
[user@host]# tune2fs -c '-1' -i 0 /dev/mapper/VGWORK11-oracle
[user@host]# tune2fs -c '-1' -i 0 /dev/mapper/VGWORK11-oradata
[user@host]# tune2fs -c '-1' -i 0 /dev/mapper/VGWORK11-archive
[user@host]# tune2fs -c '-1' -i 0 /dev/mapper/VGWORK11-oratrace
[user@host]# tune2fs -c '-1' -i 0 /dev/mapper/VGWORK11-dbawork
```



- Default Inode 2 .
- tune2fs -c mount
- tune2fs -i 0 .

Mount

- blkid UUID ,

```
[user@host]# blkid /dev/sda1
/dev/sda1: UUID="8ff42fc7-d3f5-4291-8299-05b017b64863" TYPE="ext4"
```

```
[user@host]# vi /etc/fstab
UUID=51b53fa3-6646-427e-9b9b-42c2d0ae71ac    /netbackup    ext4    defaults
0 0
UUID=2256dce2-0643-4215-90f4-faa941f2c1ad    /was_mms      ext4    defaults
0 0
UUID=fc70af47-16e5-4e85-84f3-08f5ba105aff    /was_sms      ext4    defaults
0 0
UUID=11d99296-d5e7-4c74-868f-213624236592    /oracle       ext4    defaults
0 0
UUID=fc336d3e-4997-4ff5-be11-c9f5e1abad46    /oradata      ext4    defaults
0 0
UUID=b115ef6f-3a0c-4ab1-9c48-8ba44c85a10f    /archive      ext4    defaults
0 0
UUID=5ed3e93b-253e-4be6-b0eb-72be857c7c99    /oratrace     ext4    defaults
0 0
UUID=dcd42217-29f3-4956-b63b-5cbbb436d05c    /dbawork      ext4    defaults
0 0
```



- DATA

fstab

.

Kdump

Hang vmcore root cause

```
[user@host]# vi /etc/sysctl.conf
kernel.sysrq=1
[user@host]# sysctl -p
```

1. Alt + sysRq + C
2. echo c > /proc/sysrq-trigger
3. core dump

Routing Table

Zero Configuration Networking

Routing Wireless 169.254.0.0/16 가

```
[user@host]# vi /etc/sysconfig/network
NOZEROCONF=yes #      가.
```

Routing Table

```
[user@host]# route add -net 172.18.167.242 netmask 255.255.255.255 gateway 172.18.167.1
[user@host]# route add -net 192.168.201.155 netmask 255.255.255.255 gateway 172.18.167.1
```

. rc.local 가
file .

route

```
[user@host]# vi /etc/sysconfig/network-script/route-bond0
#
172.18.160.0/24 via 172.18.167.1
192.168.201.155 via 172.18.167.1
#
192.168.10.0/24 via dev eth0
```

NTP (NTP 가)

/etc/ntp.conf

```
# Use public servers from the pool.ntp.org project.
# Please consider joining the pool (http://www.pool.ntp.org/join.html).
server 0.centos.pool.ntp.org iburst
server 1.centos.pool.ntp.org iburst
server 2.centos.pool.ntp.org iburst
server 3.centos.pool.ntp.org iburst
```

ntp ntp 가

/etc/sysconfig/ntpd

ntp ntpdate .

```
[user@host]# chkconfig ntpdate on
[user@host]# vim /etc/sysconfig/ntpdate
```

```
# Options for ntpdate
OPTIONS="-U ntp -s -b"
```

```
# Number of retries before giving up
RETRIES=2
```

```
# Set to 'yes' to sync hw clock after successful ntpdate
SYNC_HWCLOCK=yes
```

```
SYNC_HWCLOCK=yes
```

가

SSH root

yes → no

```
[user@host]# vi /etc/ssh/sshd_config
PermitRootLogin no
```

```
[user@host]# vi /etc/login.defs
PASS_MAX_DAYS 70 #
PASS_MIN_DAYS 0 # 0
PASS_MIN_LEN 8 # 8
PASS_WARN_AGE 7 # 7
```

```
[user@host]# /etc/profile
HOSTNAME=`/bin/hostname 2>/dev/null`
HISTSIZE=5000
HISTTIMEFORMAT="%F %T "
if [ "$HISTCONTROL" = "ignorespace" ] ; then
    export HISTCONTROL=ignoreboth
```

```
else
    export HISTCONTROL=ignoredups
fi

export PATH USER LOGNAME MAIL HOSTNAME HISTSIZE HISTCONTROL HISTTIMEFORMAT
```

(10)

```
[user@host]# vi /etc/profile
TMOUT=600
export TMOUT
```

FTP

(FTP 가 가 . SFTP)

```
[user@host]# vi /etc/vsftpd/vsftpd.conf
anonymous_enable=NO
local_umask=077
```

Root

```
[user@host]# vi /etc/ssh/sshd_config
PermitRootLogin no
PermitEmptyPasswords no
```

Setuid, setgid

```
[user@host]# chmod -s /sbin/dump
[user@host]# chmod -s /usr/bin/lpq-lpd
[user@host]# chmod -s /usr/bin/newgrp
[user@host]# chmod -s /sbin/restore
[user@host]# chmod -s /usr/bin/lpr
[user@host]# chmod -s /usr/sbin/lpc
[user@host]# chmod -s /sbin/unix_chkpwd ( - 가
```

```
)  
[user@host]# chmod -s /usr/bin/lpr-lpd  
[user@host]# chmod -s /usr/sbin/lpc-lpd  
[user@host]# chmod -s /usr/bin/at  
[user@host]# chmod -s /usr/bin/lprm  
[user@host]# chmod -s /bin/traceroute  
[user@host]# chmod -s /usr/bin/lpq  
[user@host]# chmod -s /usr/bin/lprm-lpd
```

openssh, openssl

```
[root@security ~]# rpm -qa |grep -E "open(ssh|ssl)"  
openssh-clients-5.3p1-104.el6.x86_64  
openssl-1.0.1e-30.el6.x86_64  
openssl-devel-1.0.1e-30.el6.x86_64  
openssh-askpass-5.3p1-104.el6.x86_64  
openssl098e-0.9.8e-18.el6_5.2.x86_64  
openssh-5.3p1-104.el6.x86_64  
openssh-server-5.3p1-104.el6.x86_64
```

- (2014-12-16)
- RHEL 6.x
 - openssh-5.3p1-104.el6_6.1
 - openssl-1.0.1e-30.el6_6.4
- RHEL 5.x
 - openssh-4.3p2-82.el5
 - openssl-0.9.8e-31.el5_11

kernel

2.6.32-431.el6.x86_64

```
[user@host]# yum update kernel*
```

- (2014-12-16)
 - RHEL 6.x : kernel-2.6.32-504.3.3.el6
 - RHEL 5.x : kernel-2.6.18-400.el5

bash

```
[user@host]# yum update bash
```

- (2014-12-16)
 - RHEL 6.x : bash-4.1.2-29.el6
 - RHEL 5.x : bash-3.2-33.el5_11.4

```
[user@host]# chkconfig cgconfig on (DCB by FCoE)
[user@host]# chkconfig ntpdate on
[user@host]# chkconfig ntpd on
[user@host]# chkconfig NetworkManager off
[user@host]# chkconfig cups off
[user@host]# chkconfig cpuspeed off
[user@host]# chkconfig ip6tables off
[user@host]# chkconfig iptables off
[user@host]# chkconfig bluetooth off
```

banner

(Telnet, FTP, SMTP) ,

```
[user@host]# vi /etc/issue
[user@host]# vi /etc/issue.net
```

(at, crontab)

/etc/at.allow, /etc/cron.allow 가 at, crontab
가

```
[user@host]# touch /etc/at.allow /etc/cron.allow
[user@host]# chmod 600 /etc/at.allow /etc/cron.allow
```

su - wheel 가

```
[user@host]# vi /etc/pam.d/su
auth required pam_wheel.so use_uid #
```

su wheel 가 [user@host]# usermod -G wheel <account>


```
[user@host]# vi /var/log/messages
[user@host]# grep -i "\(error\|fail\|warn\)" /var/log/messages
```

logrotate

logrotate 4 . 3 (12)

```
[user@host]# vi /etc/logrotate.conf

# keep 4 weeks worth of backlogs
# 12 (3 )
rotate 12

# uncomment this if you want your log files compressed
# .gz
compress
compressext .gz
```

- vim 가
- ex) [root@host]# vim /var/log/message-2014-12-12.gz

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