

- btrfs**                    **No-HDD PC** ..... 3
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# btrfs

# No-HDD PC



: [http://2cpu.co.kr/bbs/board.php?bo\\_table=vm&wr\\_id=2343](http://2cpu.co.kr/bbs/board.php?bo_table=vm&wr_id=2343)

0.

btrfs file system                      /iscsi ←-

- DHCP
- TFTP
- ISCSI
- BTRFS

1.

IP

```
/etc/network/interface

auto eth0
iface eth0 inet static
    address 211.168.0.3
    netmask 255.255.255.0
    gateway 211.168.0.1
    dns-nameservers 168.124.101.2
```

2.

가 ..

- # DHCP

```
root:/#apt-get install isc-dhcp-server
```

- #TFTP

```
root:/#apt-get install xinetd
root:/#apt-get install tftpd
root:/#apt-get install hpa-tfpd
```

- #BTRFS-TOOLS

```
root:/#apt-get install btrfs-tools
```

- #iscsi

```
root:/#apt-get install iscsitarget iscsitarget-dkms
```

### 3. ISCSI

```
- .. ISCSI TARGET
가 ..
- BTRFS 100G /iscsi . :
100G 가 50% Full 가
```

```
root:/# mkdir /iscsi/image
root:/# chmod 755 /iscsi/image
root:/# btrfs subvolume create /iscsi/image/win7
root:/# chmod 755 /iscsi/image/win7
```

```
root:/# dd if=/dev/zero of=/iscsi/image/win7/win7.img bs=1048576
count=500000
```

50 가

- /etc/default/iscsitarget

```
ISCSITARGET_ENABLE=true --> true
```

- /etc/iet/ietd.conf

```
Target iqn.2014-08.vitamin.com:master -----> iscsi target
Lun 0 Path=/iscsi/image/win7/win7.img,Type=fileio -----> iscsi target
image path
Alias client1 --> 가
MaxConnecions 1 -----> iscsi
```

- Iscsi target

```
root:/# service iscsitarget restart
```

ok

# 4. 가 DHCP, TFTP, gPXE

<http://rom-o-matic.net/gpxe/gpxe-1.0.1/contrib/rom-o-matic/>

undionly.kpxe

..

- dhcp

/etc/dhcp/dhcpd.conf

```

subnet 211.168.0.0 netmask 255.255.255.0 {
  range dynamic-bootp 211.168.0.11 211.168.0.185;
  option domain-name-servers 164.124.101.2, 168.126.63.1;
  option broadcast-address 211.168.0.255;
  option routers 211.168.0.1;
  authoritative;
}
host client1 {
  hardware ethernet 00:00:00:00:00:00;      ----->
  fixed-address 192.168.0.10;                ----->
  option host name "client1";
  if exists user-class and option user-class = "gPXE" {
    filename "";
    option root-path "iscsi:211.168.0.3:::iqn.2014-08.vitamin.com:master";
-- >          iscsi target
} else {
  filename "gpxe.kpxe";
}
}

```

|   |               |        |    |            |   |
|---|---------------|--------|----|------------|---|
| 가 | Boot from LAN | Enable | .. | CMOS SETUP | 가 |
|   |               |        |    | NETWORK 1  |   |

- TFTP

/etc/xinetd.d/tftp

```

service tftp
{
  disable      = no          --- >      yes    no
  socket_type  = dgram
  protocol     = udp
  wait        = yes
  user        = nobody
  server      = /usr/sbin/in.tftpd
  server_args = -s /tftpboot
}

```

#####

gpxe-1.0.1-undionly.kpxe /tftpboot gpxe.kpxe

/tftpboot . #mkdir /tftpboot .

- DHCP

```
root:/#service isc-dhcp-server restart
```

```
... 가 . 10 100
```

```
btrfs subvolume snapshot /iscsi/image/win7 /iscsi/image/pc01
btrfs subvolume snapshot /iscsi/image/win7 /iscsi/image/pc02
btrfs subvolume snapshot /iscsi/image/win7 /iscsi/image/pc03
```

```
pc . /iscsi/image/pc01/ win7.img 가
pc /etc/iet/ietd.conf 가
```

```
Target iqn.2014-08.vitamin.com:pc01
Lun 0 Path=/iscsi/image/pc01/win7.img,Type=fileio
MaxConnections 1
Target iqn.2014-08.vitamin.com:pc02
Lun 0 Path=/iscsi/image/pc02/win7.img,Type=fileio
MaxConnections 1
Target iqn.2014-08.vitamin.com:pc03
Lun 0 Path=/iscsi/image/pc03/win7.img,Type=fileio
MaxConnections 1
```

```
dhcp /etc/dhcp/dhcpd.conf 가 .
/etc/dhcp/dhcpd.conf
```

```
subnet 211.168.0.0 netmask 255.255.255.0 {
  range dynamic-bootp 211.168.0.11 211.168.0.185;
  option domain-name-servers 164.124.101.2, 168.126.63.1;
  option broadcast-address 211.168.0.255;
  option routers 211.168.0.1;
  authoritative;
}
host master {
  hardware ethernet 00:00:00:00:00:00;
  fixed-address 211.168.0.10;
  option host name "client1";
  if exists user-class and option user-class = "gPXE" {
    filename "";
    option root-path "iscsi:211.168.0.3::::iqn.2014-08.vitamin.com:master";
  } else {
```

```

    filename "gpxe.kpxe";
}
}
host pc01 {
    hardware ethernet 00:00:00:00:00:00;
    fixed-address 211.168.0.11;
    option host name "pc01";
    if exists user-class and option user-class = "gPXE" {
        filename "";
        option root-path "iscsi:211.168.0.3::::iqn.2014-08.vitamin.com:pc01";
    } else {
        filename "gpxe.kpxe";
    }
}
}
host pc02 {
    hardware ethernet 00:00:00:00:00:00;
    fixed-address 211.168.0.12;
    option host name "pc02";
    if exists user-class and option user-class = "gPXE" {
        filename "";
        option root-path "iscsi:211.168.0.3::::iqn.2014-08.vitamin.com:pc02";
    } else {
        filename "gpxe.kpxe";
    }
}
}
host pc03 {
    hardware ethernet 00:00:00:00:00:00;
    fixed-address 211.168.0.13;
    option host name "client1";
    if exists user-class and option user-class = "gPXE" {
        filename "";
        option root-path "iscsi:211.168.0.3::::iqn.2014-08.vitamin.com:pc03";
    } else {
        filename "gpxe.kpxe";
    }
}
}

```

```

pc01          iscsi          path          tftp          iscs
pc01          .
pc01

```

```

#ietadm --op delete --tid=1 --lun=0 iscsi
#btrfs subvolume delete /iscsi/image/pc01
#btrfs subvolume snapshot /iscsi/image/win7 /iscsi/image/pc01

#ietadm --op new --tid=1 --lun=0 --params Path=/iscsi/image/pc01/win7.img
iscsi

```

0.1 가 . 가

master 가 pc  
. master pc  
master, pc01, pc02 pc03, master iscsi 가 ip  
iscsi

<http://support.microsoft.com/kb/2550978> <http://support.microsoft.com/kb/976042/>

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