btrfs No-HDD PC

Last
update:
2015/06/18
15:49

btrfs
_no-hdd_pc
_
_
https://atl.kr/dokuwiki/doku.php/btrfs%EB%A5%BC_%EC%9D%91%EC%9A%A9%ED%95%9C_no-hdd_pc%EB%B0%A9_%EA%B5%AC%EC%B6%95

btrfs　　　　　No-HDD PC

⚠️　　　　　　　　　： 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.

　　　　　　　　　　　　　　　　　　　　　　　　　..

- # 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

..

- BTRFS 100G /iscsi . :
100G 50% Full
.

```
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

- /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        -->
MaxConnecions    1  ------>           iscsi
```

- Iscsi target

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

ok

4.   **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";
}
}
```

.. CMOS SETUP
Boot from LAN   Enable   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
  }
```

###########################

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_
_

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

/tftpboot   . #mkdir /tftpboot   .

- DHCP

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

…   .   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
pc   /etc/iet/ietd.conf

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

dhcp   /etc/dhcp/dhcpd.conf   .
/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";
}
}
```

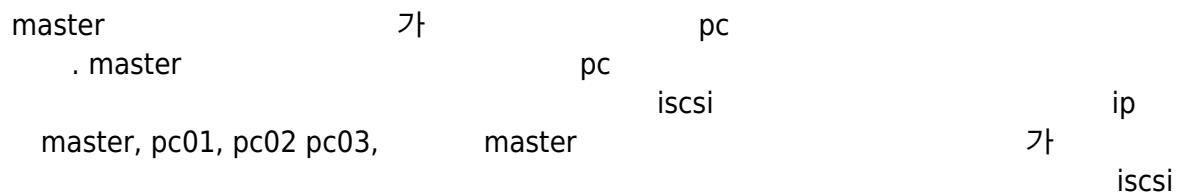　　pc01　　　　　　　　　　iscsi　　　　　　　　　　path　　　tftp　　iscs
　pc01　　　　　　　　　　　　　　.

　　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
```

　　　　　　O.1　　　　　　　　.

master   pc

. master   pc

iscsi   ip

master, pc01, pc02 pc03,   master   .

iscsi

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