LTSP (LINUX TERMINAL SERVER PROJECT)

WAN – LTSP(ROUTER) – LAN

WAN : 192.168.100.1

LTSP : eth1 192.168.100.10 / eth0 192.168.2.1

LAN : 192.168.2.0/24

1. set LTSP sebagai ROUTER

2. install LTSP

```
padli@raisa: ~
padli@raisa:~$ sudo apt-get install ltsp-server-standalone openssh-server
```

3. set dhcp server

```
padli@raisa: ~
  GNU nano 2.2.6          File: /etc/ltsp/dhcpd.conf                    Modified

#
# Default LTSP dhcpd.conf config file.
#

authoritative;

subnet 192.168.2.0 netmask 255.255.255.0 {
    range 192.168.2.20 192.168.2.250;
    option domain-name "raisa.web.id";
    option domain-name-servers 8.8.8.8;
    option broadcast-address 192.168.2.255;
    option routers 192.168.2.1;
#    next-server 192.168.0.1;
#    get-lease-hostnames true;
    option subnet-mask 255.255.255.0;
    option root-path "/opt/ltsp/i386";
    if substring( option vendor-class-identifier, 0, 9 ) = "PXEClient" {
        filename "/ltsp/i386/pxelinux.0";
    } else {

^G Get Help   ^O WriteOut   ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit       ^J Justify    ^W Where Is   ^V Next Page  ^U UnCut Text ^T To Spell
```

4. set inteface DHCP server

```
padli@raisa: ~
  GNU nano 2.2.6          File: /etc/default/isc-dhcp-server          Modified


# Path to dhcpd's PID file (default: /var/run/dhcpd.pid).
#DHCPD_PID=/var/run/dhcpd.pid

# Additional options to start dhcpd with.
#       Don't use options -cf or -pf here; use DHCPD_CONF/ DHCPD_PID instead
#OPTIONS=""

# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
#       Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACES="eth0"
```

5. start service dhcp

```
padli@raisa: ~
padli@raisa:~$ sudo service isc-dhcp-server start
isc-dhcp-server start/running, process 5837
padli@raisa:~$ sudo service isc-dhcp-server start
start: Job is already running: isc-dhcp-server
padli@raisa:~$
```

6. build fat client / for thin client just type "ltsp-build-client"

```
padli@raisa: ~
padli@raisa:~$ sudo ltsp-build-client --fat-client --fat-client-desktop ubuntu-d
esktop --arch i386 --mirror http://kambing.ui.ac.id/ubuntu
```

7. sesuaikan waktu server & client

```
root@raisa: /
root@raisa:/# date
Sel Jun  9 13:02:05 WIB 2015
root@raisa:/# chroot /opt/ltsp/i386 date
Tue Jun  9 13:02:15 WIB 2015
root@raisa:/#
```

```
root@raisa: /
root@raisa:/# chroot /opt/ltsp/i386 apt-get install language-pack-id
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following extra packages will be installed:
  firefox-locale-id language-pack-id-base
The following NEW packages will be installed:
  firefox-locale-id language-pack-id language-pack-id-base
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 1802 kB of archives.
After this operation, 5510 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

```
root@raisa: /
root@raisa:/# date
Sel Jun  9 13:03:18 WIB 2015
root@raisa:/# chroot /opt/ltsp/i386 date
Sel Jun  9 13:03:22 WIB 2015
root@raisa:/#
```

8. tambahkan user admin untuk LTSP server

```
root@raisa: /home/padli
padli@raisa: ~                          ×    root@raisa: /home/padli          ×
padli@raisa:~$ sudo -s -H
root@raisa:/home/padli# chroot /opt/ltsp/i386
root@raisa:/# useradd -m padli -G sudo
root@raisa:/# passwd padli
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
root@raisa:/# exit
exit
```

9. tambahkan user biasa untuk LTSP client

root@raisa:/home/padli# adduser raisa
Adding user `raisa' ...
Adding new group `raisa' (1001) ...
Adding new user `raisa' (1001) with group `raisa' ...
Creating home directory `/home/raisa' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for raisa
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
root@raisa:/home/padli#

root@raisa:/home/padli# chroot /opt/ltsp/i386 adduser raisa
Adding user `raisa' ...
Adding new group `raisa' (1001) ...
Adding new user `raisa' (1001) with group `raisa' ...
Creating home directory `/home/raisa' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for raisa
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
root@raisa:/home/padli#

```
root@raisa: /home/padli

padli@raisa: ~        ✕    root@raisa: /home/padli              ✕

root@raisa:/home/padli# ls /home/
padli  raisa
root@raisa:/home/padli# ls /opt/ltsp/i386/home/
padli  raisa
root@raisa:/home/padli#
```

10. samakan file sources.list & pindahkan file lts.conf

```
padli@raisa: ~

padli@raisa:~$ sudo cp /opt/ltsp/i386/etc/apt/sources.list /etc/apt/sources.list
padli@raisa:~$
```

```
root@raisa: /home/padli

root@raisa:/home/padli# cp /opt/ltsp/i386/etc/lts.conf /var/lib/tftpboot/ltsp/i3
86/
```

11. update server

```
padli@raisa: ~

padli@raisa:~$ sudo apt-get update
```

```
padli@raisa: ~

padli@raisa:~$ sudo chroot /opt/ltsp/i386 apt-get update
```

12. update image


```
root@raisa:/home/padli# ltsp-update-sshkeys
root@raisa:/home/padli# ltsp-update-image
Parallel mksquashfs: Using 2 processors
Creating 4.0 filesystem on /opt/ltsp/images/i386.img.tmp, block size 131072.
[==/                                          ]  1322/26668    4%
```
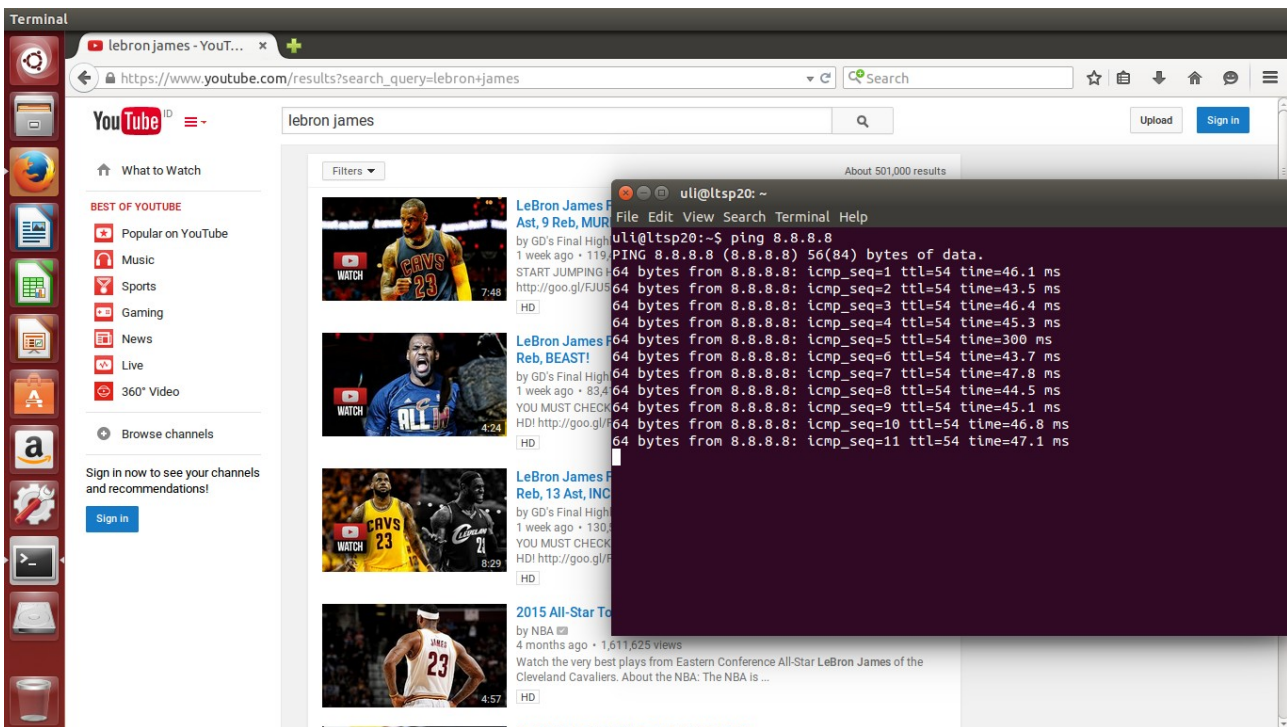
13. restart server


```
root@raisa:/home/padli# reboot
```
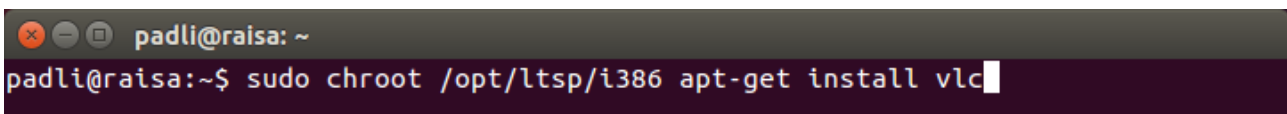
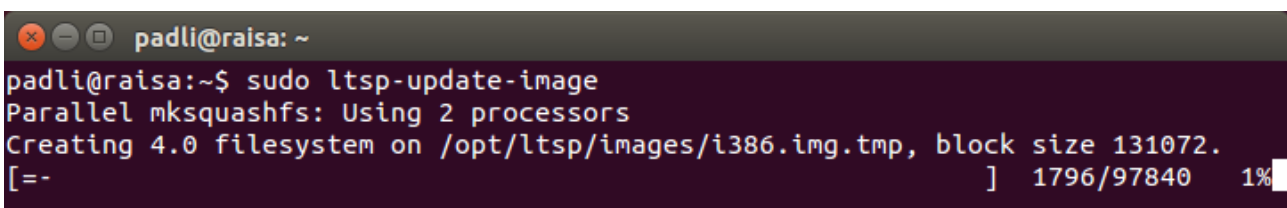## 14. tes client (set bios / EFI boot from network)

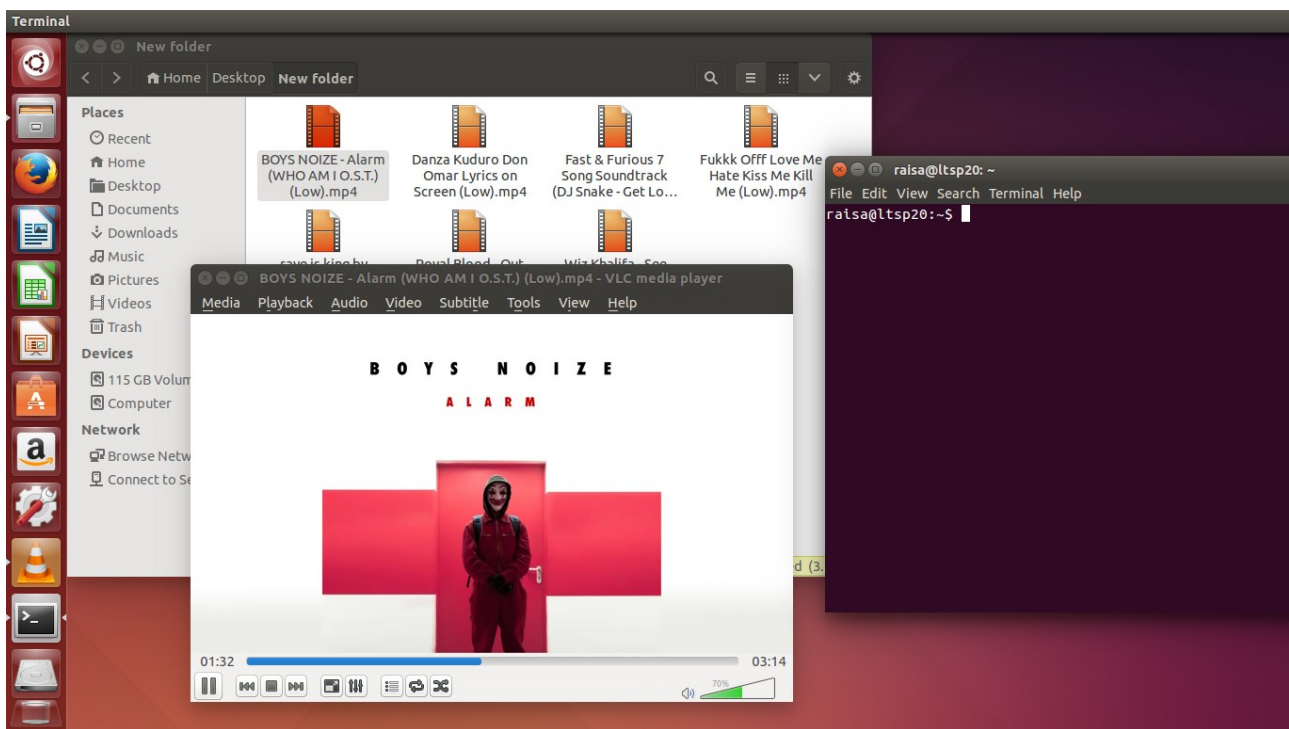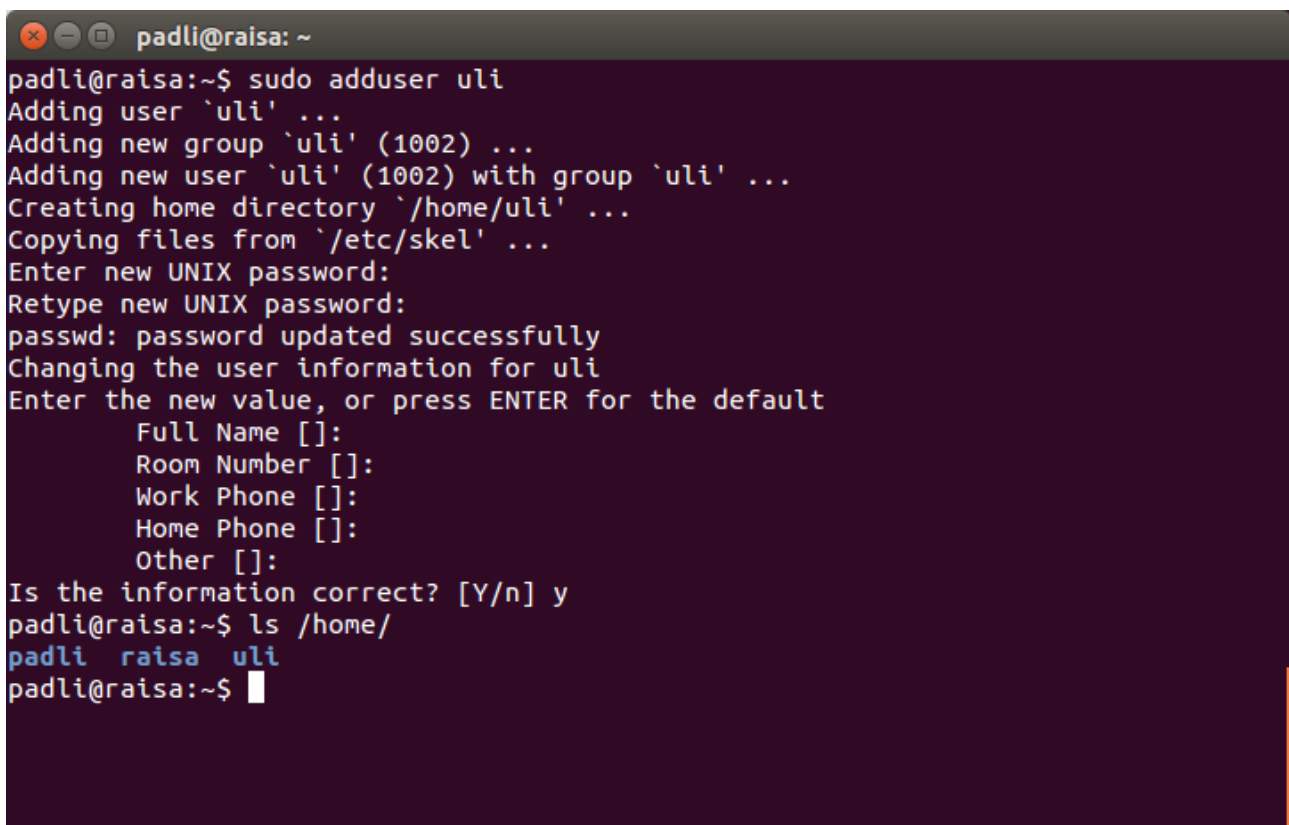## 15. tes client browsing (ctrl+alt+del untuk logout)

16. install vlc player di server
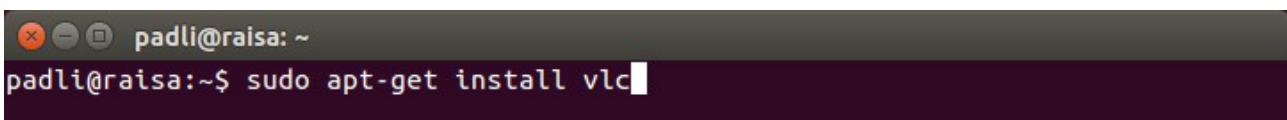
17. update image

18. tes vlc player di client


19. tambah user di server

```
root@raisa:/home/padli# chroot /opt/ltsp/i386 adduser uli
Adding user `uli' ...
Adding new group `uli' (1002) ...
Adding new user `uli' (1002) with group `uli' ...
Creating home directory `/home/uli' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for uli
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
root@raisa:/home/padli#
```



```
padli@raisa:~$ ls /home/
padli  raisa  uli
padli@raisa:~$ ls /opt/ltsp/i386/home/
padli  raisa  uli
padli@raisa:~$
```

20. tes client (user2)
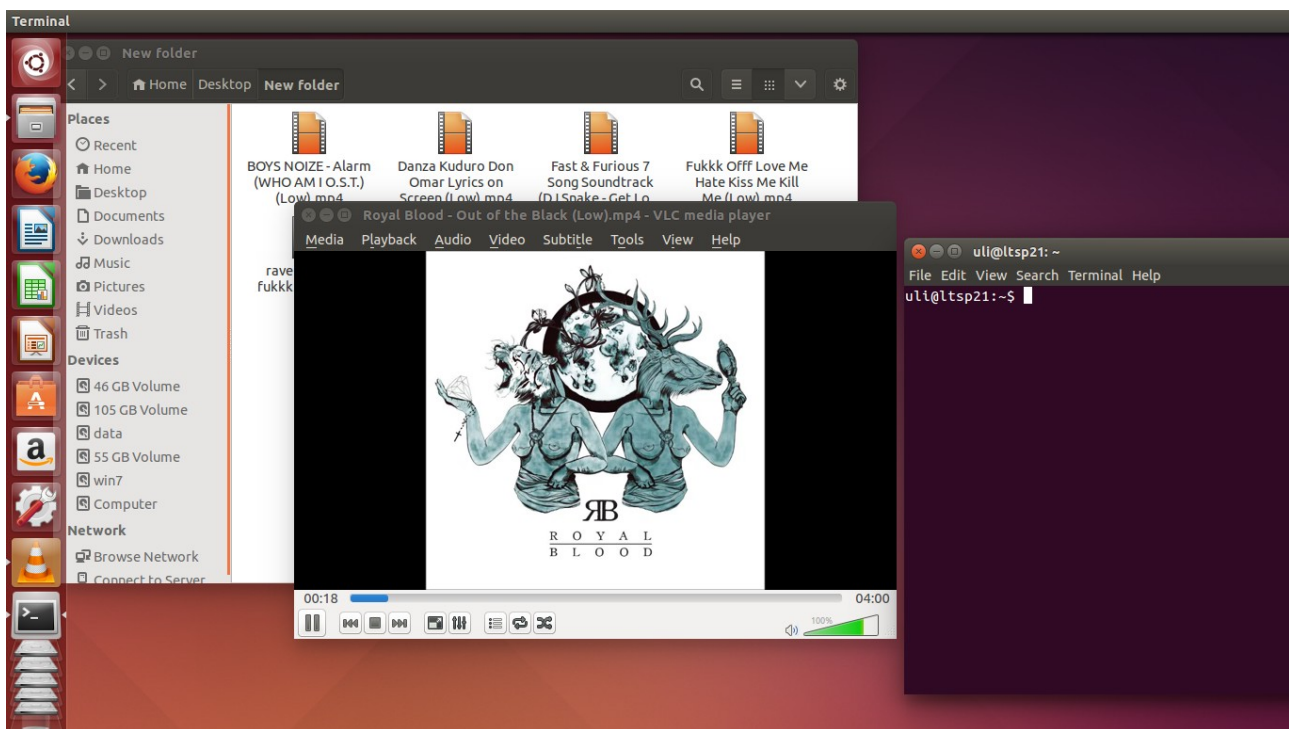
NOTE : thin client (spek server > spek client)

   fat client (spek server = spek client)

FMI : https://help.ubuntu.com/community/UbuntuLTSP

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