

HOW TO SETUP LINUX

CSI3102-02

Linux Setup

Server + SSH Client

- ✓ Remote Server
- ✓ Server in Local VM

Local Machine

- ✓ Dual Boot
(ex) Window: Install with Wubi
- ✓ Local VM

THERE IS NO STANDARD!

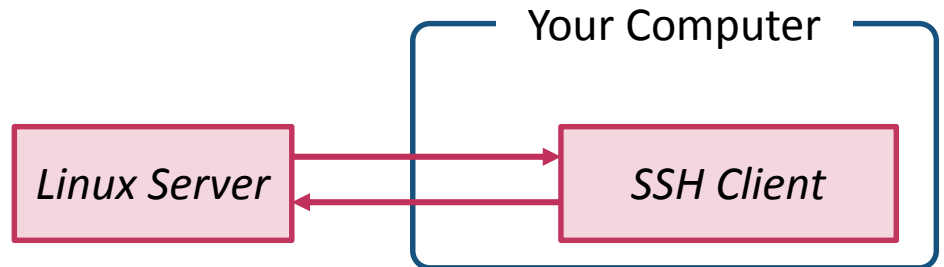


Figure 1. Remote Server + SSH Client

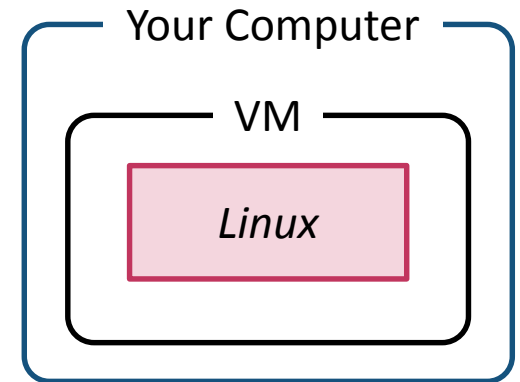


Figure 2. Local VM

Server in Local VM + SSH Client

Linux Image

VM

SSH Client

- ✓ Putty, XShell

We will use

- ✓ Ubuntu Server
- ✓ VirtualBox & VBoxHeadlessTray
- ✓ XShell

VirtualBox + VBoxHeadlessTray

VBoxHeadlessTray

- ✓ Daemon: VM -> Background Process
c.f. Kakaotalk, utorrent, etc. are daemon when there is no interaction with user
- ✓ VirtualBox & VBoxHeadlessTray : **MUST BE SAME VERSION**
- ✓ <http://www.toptensoftware.com/VBoxHeadlessTray/>

Advantage

- ✓ Multitasking: Editing ppt file with Linux running background



Figure 3. VBoxHeadlessTray

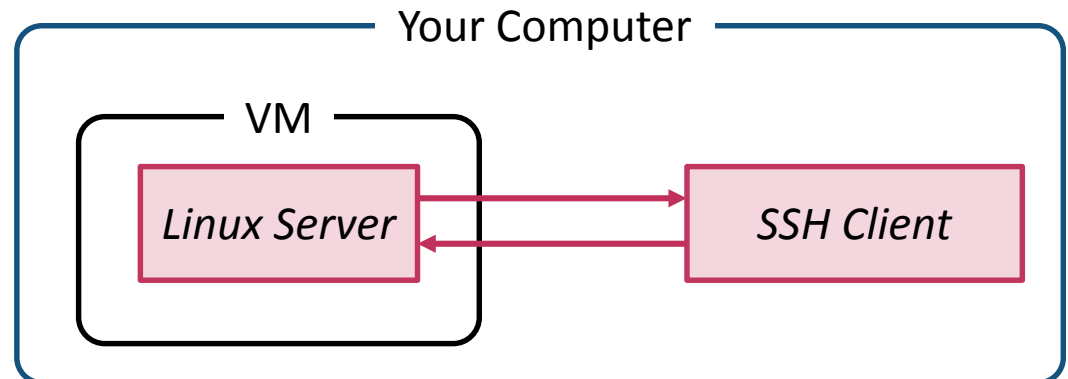


Figure 4. Server in Local VM + SSH Client

XShell Advantage

ZMODEM !!!

- ✓ Easy to use
- ✓ If you don't use ZMODEM, you have to use FTP, etc.

Other Advantages

- ✓ Multi-tab, Multi-session
- ✓ Beauty Font

- STEP1: Install *VirtualBox*
- STEP2: Install ubuntu server on *VirtualBox* & Install *openssh-server*
- STEP3: Config port forwarding on *VirtualBox*
- STEP4: Install *XShell*
- STEP5: Install *VBoxHeadlessTray* (MUST BE SAME VERSION WITH *VirtualBox*)
- STEP6: (Optional) Install *lrzsz* (If you want to use ZMODEM)

STEP 1, 2

STEP 1, 2: DO IT YOURSELF

Installing ubuntu server on VirtualBox, you can see screen below. Use 'spacebar' to install 'OpenSSH server'

```
[!] Software selection

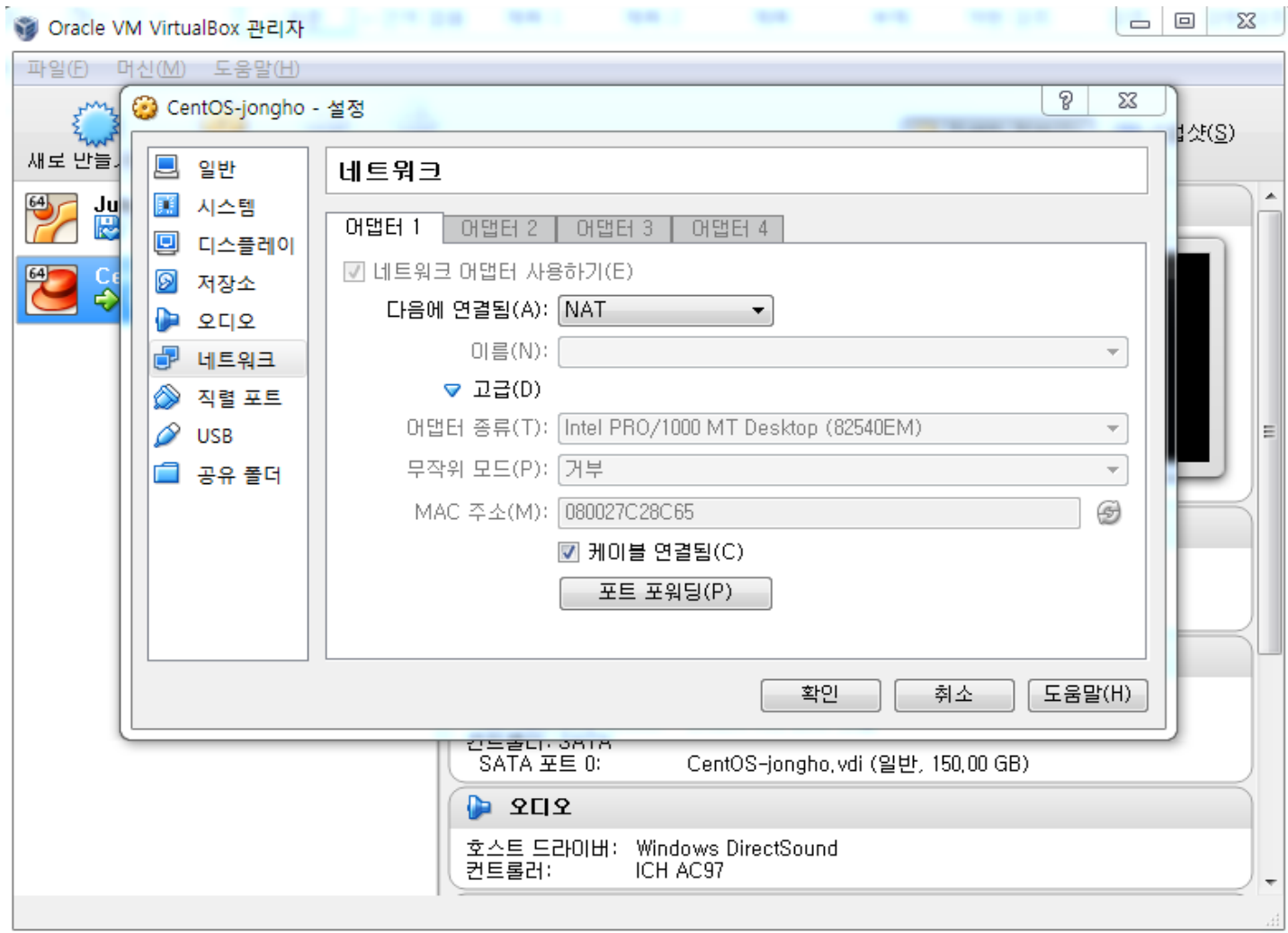
At the moment, only the core of the system is installed. To tune the system to your
needs, you can choose to install one or more of the following predefined collections of
software.

Choose software to install:

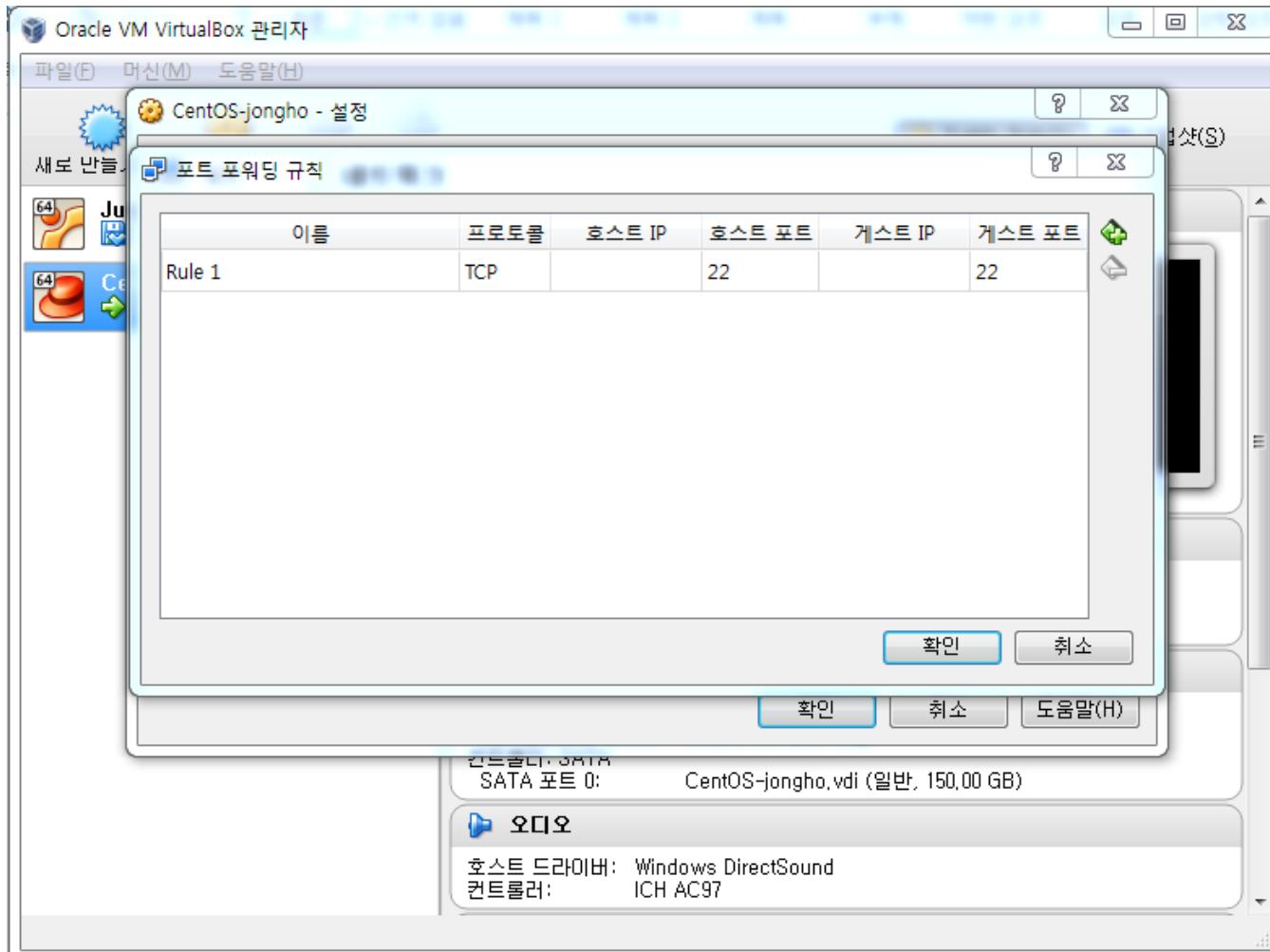
[*] OpenSSH server
[ ] DNS server
[*] LAMP server
[ ] Mail server
[ ] PostgreSQL database
[ ] Print server
[*] Samba file server
[ ] Tomcat Java server
[ ] Virtual Machine host
[ ] Manual package selection

<Continue>
```

VirtualBox > Configuration > Network



VirtualBox > Configuration > Network > Port Forwarding

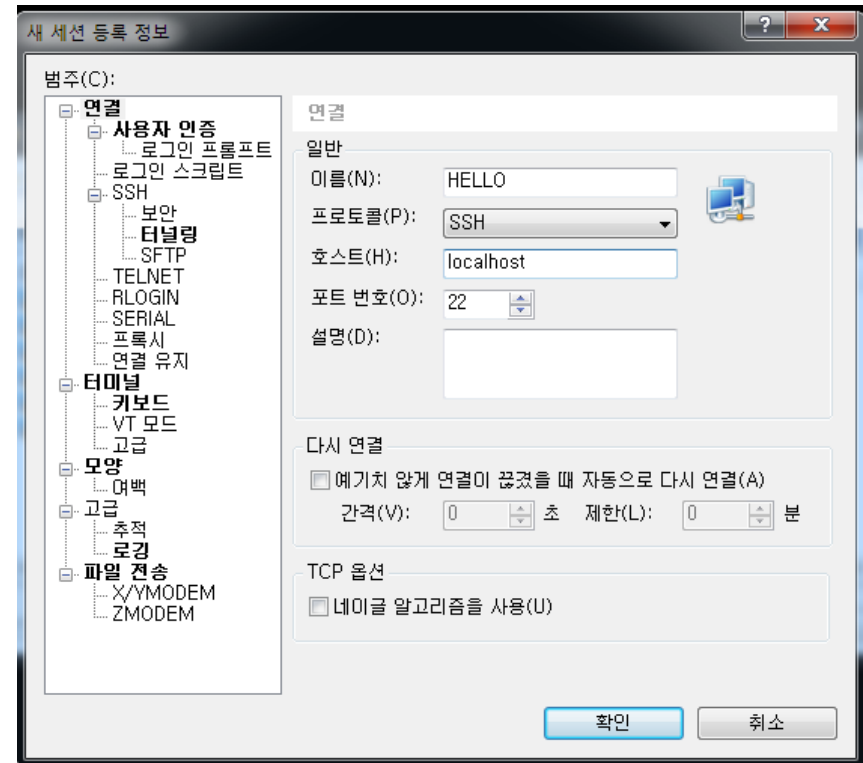


Test You Did Perfect Until STEP 4

Make sure your VM is on.

Turn on your XShell, and connect to your VM.

- ✓ If it works well, you did perfect until STEP 4. Turn off VirtualBox with "SaveState".
- ✓ If it doesn't work well, something wrong. Find it and fix it.



STEP 4, 5, 6

STEP 4, 5: DO IT YOURSELF

- ✓ If you don't want to use ZMODEM, putty is OK, instead of XShell
- ✓ CAUTION: (VirtualBox Version) = (VBoxHeadlessTray Version)
- ✓ VBoxHeadlessTray is heavy app. So, if you don't use linux, turn it off.
- ✓ If you exit the VBoxHeadlessTray, we recommend "SaveState"

STEP 6: Install lrzsz (If you want to use ZMODEM, install it !)

```
$ sudo apt-get install lrzsz
```