

CSE 523 - System Security HW#1

How to setup a SEEDUbuntu on a VirtualBox

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1. Before getting started

1.1 What is a SEEDUbuntu

Ubuntu is one of the famous Linux versions and SEEDUbuntu is another expansion of Ubuntu. SEEDUbuntu has several useful tools on it. Once you set up SEEDUbuntu, it will be a test machine we can test various network security issues on.

1.2 What is a VirtualBox

It is a kind of emulator which you can install an Operating system without any other physical computer. You can install several different OS on a VirtualBox on your host computer or laptop.

2. Install a SEEDUbuntu on your VirtualBox

2.1 Download and install a VirtualBox

You can download a VirtualBox here.

https://www.virtualbox.org/wiki/Download_Old_Builds_6_0

Download the proper version on your host computer and install it.

2.2 Download SEEDUbuntu

You can download a SEEDUbuntu here. https://seedsecuritylabs.org/lab_env.html

Download a SEEDUbuntu from a proper mirror site and unzip it.

3. How to setup SEEDUbuntu on a VirtualBox

3.1 Click the 'New' icon on your VirtualBox

After clicking the 'New' icon, set the type and version of it. Set the Type to 'Linux' and Version to 'Ubuntu(32-bit)'

3.2 Set memory size.

It is enough to have it 1Gb. If you have enough memory and then set it more than 2 Gb.

3.3 Set 'Hard disk'

Choose a 'Use an existing virtual hard disk file' and select a 'SEEDUbuntu-16.04-32bit.vmdk' on your unzipped folder. Please check the file name carefully.

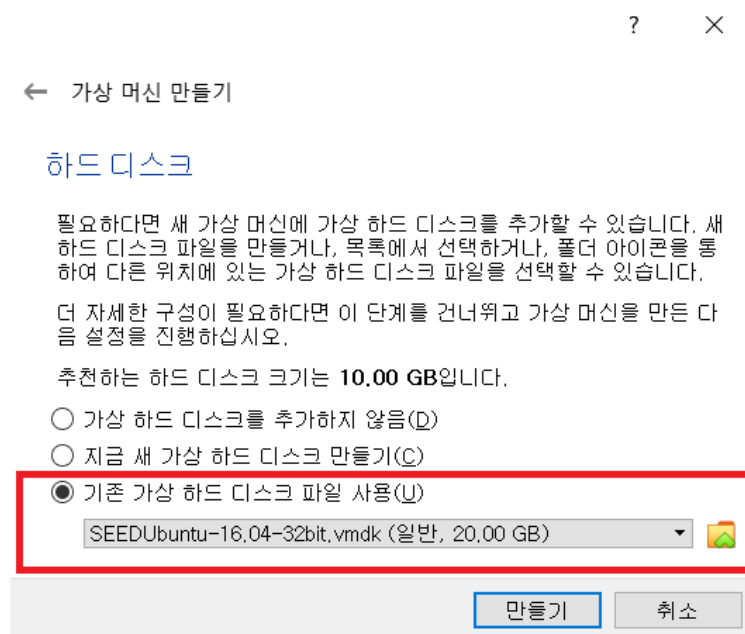


Figure 1. Choose a 'SEEDUbuntu-16.04-32bit.vmdk' on your unzipped folder.

3.4. Set sharing clipboard setting.

After finishing creating a virtual machine on your VirtualBox, open its setup to share a clipboard between the virtual machine and the host computer. Go to 'Settings -> General -> Advanced' and choose 'Bidirectional' on 'Shared Clipboard' and 'Drag'n Drop' section.

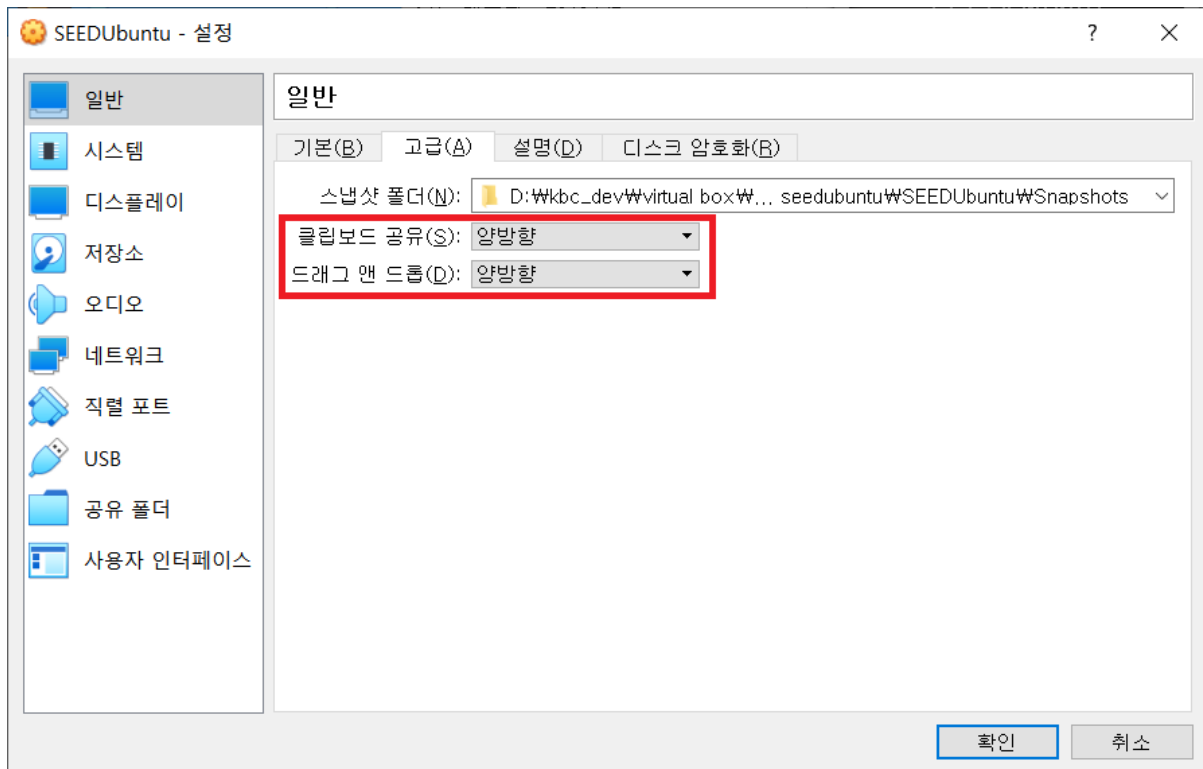


Figure 2. Choose a 'Bidirectional' on 'Shared Clipboard' and 'Drag'n Drop' section.

3.5 Change the prompt looks on your SEEDUbuntu

Open the .bashrc file on your SEEDUbuntu.

Find 'PS1' word and setting it like this. Put your name in red and bold text.

```
PS1='[`date "+%D"`]\u@\h:Byeongchan\$ '
```

3.6 Test the clipboard and the prompt

Check between the SEEDUbuntu and your host computer and check the prompt.

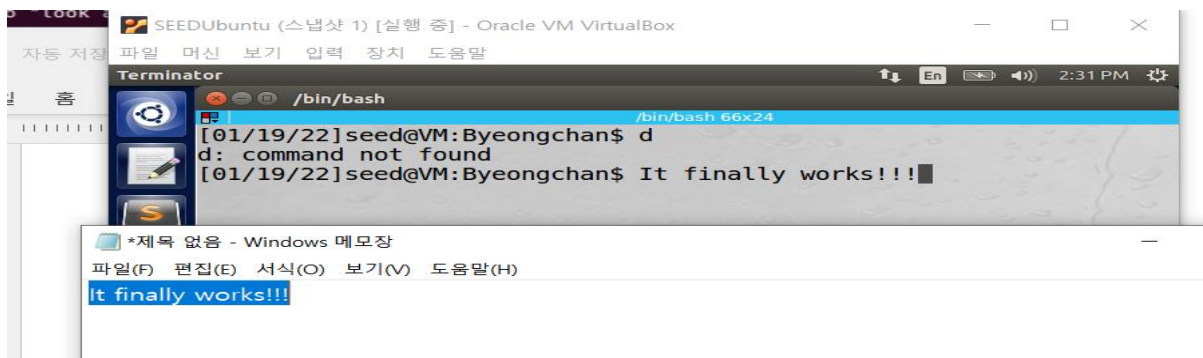


Figure 3. Test on shaing clipboard and check the prompt.

4. Screenshot of a running SEEDUbuntu

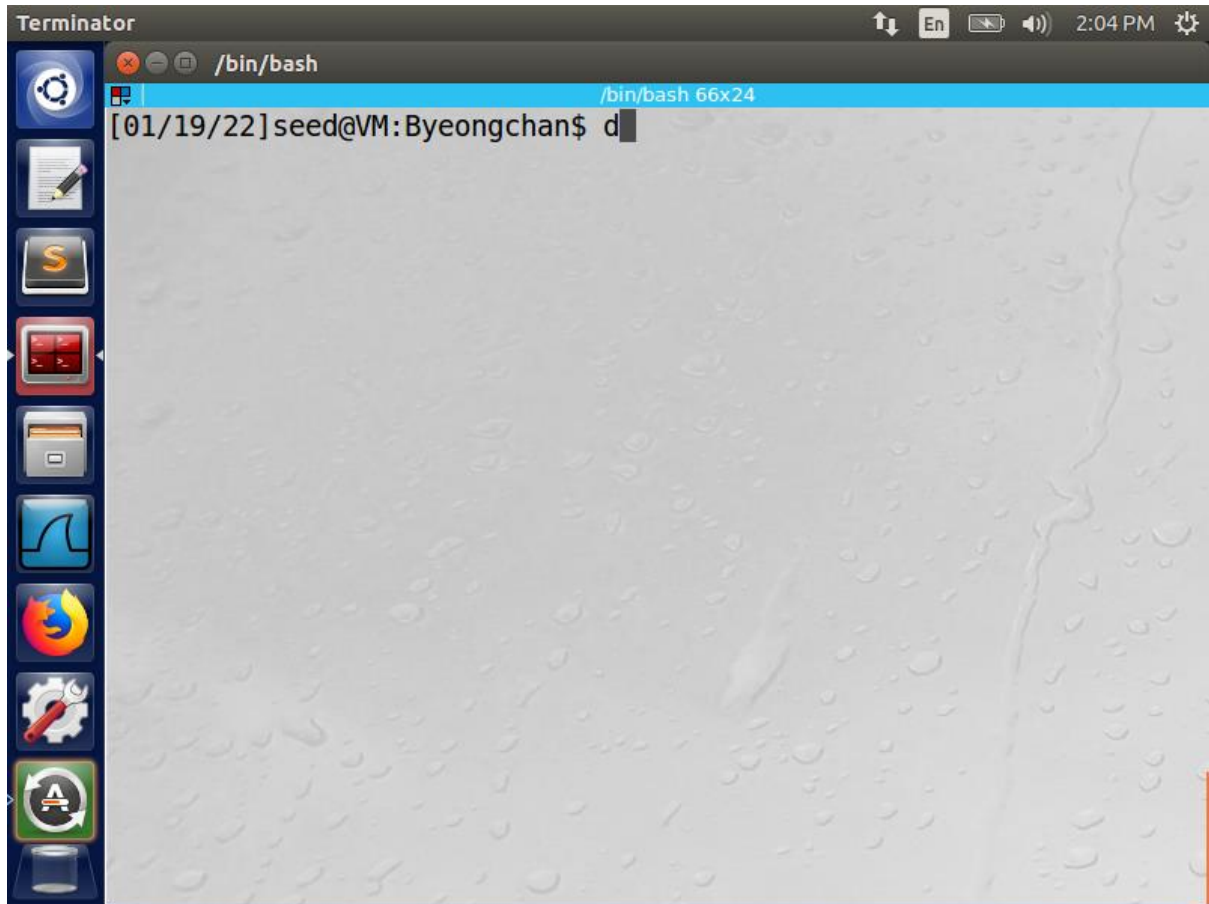


Figure 4. A screenshot of a SEEDUbuntu after installation on a VirtualBox

5. Screenshot of a snapshot

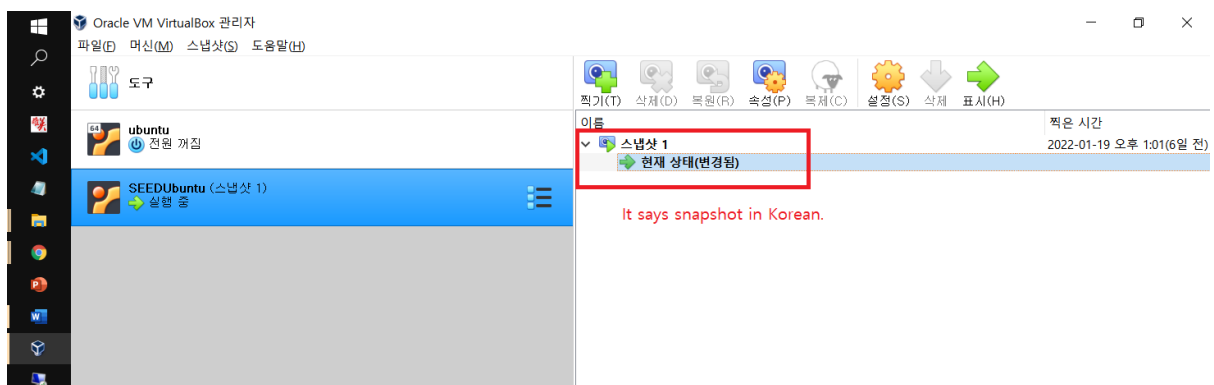


Figure 5. A screenshot of a snapshot(it says snapshot in Korean)