Name: Youngjoo Lee

CS 312 – 001

Homework 7

May 26, 2020

"Homework7_YoungjooLee.zip" includes:

README.pdf, hosts.ini, hw7script.sh, index.html, webserver.yaml

<Instructions>

1. Start up a pfSense router first, and then start up a CentOS CLI VM and four Alpine VMs.

* Check CentOS has "ansible", if no, install it using a command: **sudo yum install -y ansible**

2. On the CentOS box, download "Homework7_YoungjooLee.zip" on the CentOS VM

(I attached Homework7_YoungjooLee.zip file)

* if you don't know download the file on CentOS VM, then use 'curl' command like below:

- **curl -sL https://raw.githubusercontent.com/epww1502/cs312/master/Homework7_YoungjooLee.zip > ~/leey3.zip**

```
[centosuser@localhost ~]$ curl -sL https://raw.githubusercontent.com/epww1502/cs
312/master/Homework7_YoungjooLee.zip > ~/leey3.zip
[centosuser@localhost ~]$ ls
leey3.zip
```

* If you don't install curl before, then install 'curl' using "**sudo yum install -y curl**"

3. Unzip "leey3.zip" (if you don't have a way of unzip, then use 'unzip' command like below (if you don't have 'unzip', install it using "sudo yum install -y unzip")

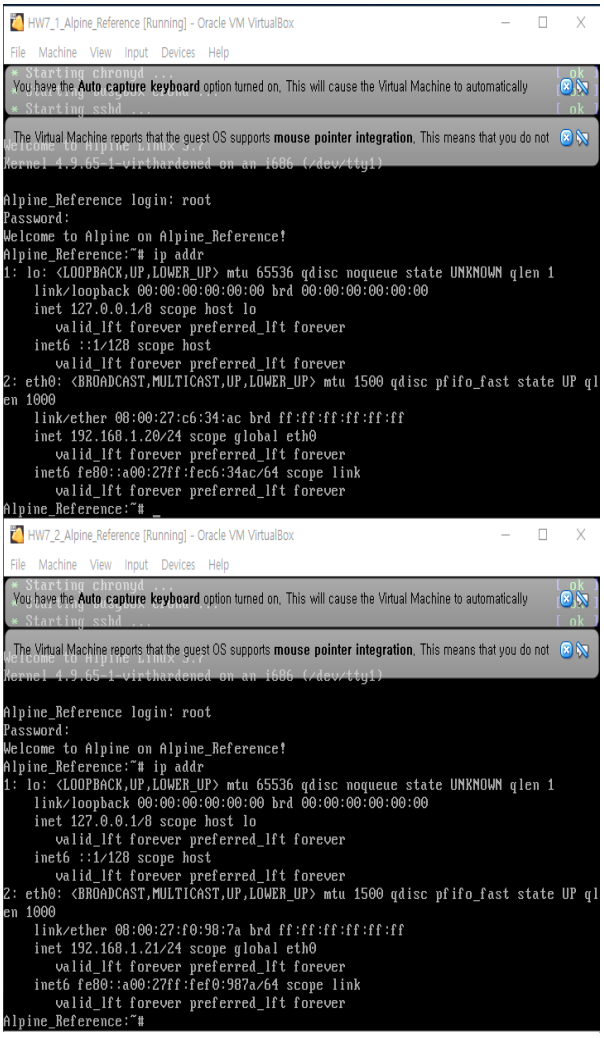
- unzip leey3.zip

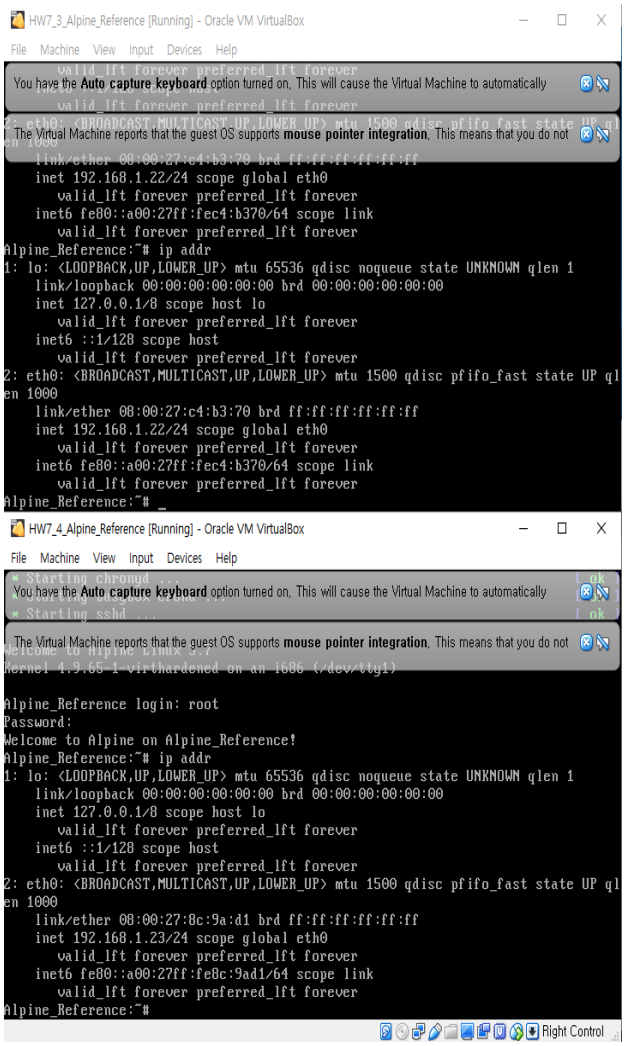
```
[centosuser@localhost ~]$ ls
leey3.zip
[centosuser@localhost ~]$ unzip leey3.zip
Archive:  leey3.zip
  inflating: hosts.ini
  inflating: hw7script.sh
  inflating: index.html
  inflating: webserver.yaml
[centosuser@localhost ~]$ ls
hosts.ini  hw7script.sh  index.html  leey3.zip  webserver.yaml
```

4. Check all Alpines IP addresses using "ip addr" if they don't have same IP addresses on the below list, then needs to change IP addresses in the script file (hw7script.sh) and "hosts.ini" to match IP addresses that Alpine boxes currently have.

Alpine boxes IP addresses List:

- ✓ 192.168.1.20
- ✓ 192.168.1.21
- ✓ 192.168.1.22
- ✓ 192.168.1.23





5. On CentOS box, type "./hw7script.sh" and enter

```
[centosuser@localhost ~]$ ./hw7script.sh
```

* if you see a message like "-bash: ./hw7script.sh: Permission denied", then type "**chmod +x hw7script.sh**" and type "**./hw7script.sh**" again.

```
[centosuser@localhost ~]$ ./hw7script.sh
-bash: ./hw7script.sh: Permission denied
[centosuser@localhost ~]$ chmod +x hw7script.sh
[centosuser@localhost ~]$ ./hw7script.sh
ssh key is generating...
Generating public/private rsa key pair.
Enter file in which to save the key (/home/centosuser/.ssh/id_rsa):
```

6. Enter twice for setting file in which to save the key, and then type 'password' (which is Alpines passwords) and 'yes' 4 times.

```
root@192.168.1.20's password:
```

```
Are you sure you want to continue connecting (yes/no)?
```

7. Finally, it will print result of index.html which contains the Ansible variable "template_run_date" in each alpine VMs!

```
<p>- Name: Youngjoo Lee <br>
- Class: CS 312 - 001<br>
- Homework 7</p>
<p>This page was last provisioned on 2020-05-18 04:35:30.047319</p>
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</html>
<html>
<head><title>Youngjoo HW7 Test page</title></head>
<body>
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- Class: CS 312 - 001<br>
- Homework 7</p>
<p>This page was last provisioned on 2020-05-18 04:35:30.090725</p>
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<p>- Name: Youngjoo Lee <br>
- Class: CS 312 - 001<br>
- Homework 7</p>
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</body>
</html>
[centosuser@localhost ~]$ _
```