**Exercise: The 'Notify' Module**

1. Verify that your ansible installation is available by displaying the version of ansible while logged in as the 'user' user.

[test@tcox3 ~]$ ansible --version

ansible 1.9.2

  configured module search path = None

2. Run the ansible command that lists all of the hosts configured in your control server 'hosts' file for the system.

[test@tcox3 ~]$ ansible all --list-hosts

    tcox5.mylabserver.com

    localhost

    tcox4.mylabserver.com

3. Create a playbook, using the 'NOTIFY' concepts from the video:

- Uses SSH

- Logs in to the remote system as 'test' user

- Connects to one server or group from Step #2 above

- The playbook runs as 'sudo'

- Skip gathering remote facts

- Installs the 'Apache Web Server' using the appropriate package module

- Upon installation of the web server, notifies the appropriately titled handler to restart the service using the 'service' module

[test@tcox3 Playbooks]$ vim notify.yml

[test@tcox3 Playbooks]$ cat notify.yml

--- # My First YAML Playbook for Ansible

- hosts: apacheweb

  user: test

  sudo: yes

  connection: ssh

  gather\_facts: no

  tasks:

    - name: Install Apache Web Server

      action: yum name=httpd state=installed

      notify: Restart HTTPD

  handlers:

    - name: Restart HTTPD

      action: service name=httpd state=restarted

4. Run the playbook and display the results.

[test@tcox3 Playbooks]$ ansible-playbook notify.yml

PLAY [apacheweb] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK: [Install Apache Web Server] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [tcox4.mylabserver.com]

NOTIFIED: [Restart HTTPD] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [tcox4.mylabserver.com]

PLAY RECAP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

tcox4.mylabserver.com      : ok=2    changed=2    unreachable=0    failed=0

[test@tcox3 Playbooks]$ ssh tcox4

Last login: Wed Oct 14 15:27:43 2015 from ec2-52-91-231-138.compute-1.amazonaws.com

[test@tcox4 ~]$ ps aux | grep http

root      2042  0.0  0.4 213080  4752 ?        Ss   15:27   0:00 /usr/sbin/httpd -DFOREGROUND

apache    2043  0.0  0.2 213080  2752 ?        S    15:27   0:00 /usr/sbin/httpd -DFOREGROUND

apache    2044  0.0  0.2 213080  2752 ?        S    15:27   0:00 /usr/sbin/httpd -DFOREGROUND

apache    2045  0.0  0.2 213080  2752 ?        S    15:27   0:00 /usr/sbin/httpd -DFOREGROUND

apache    2046  0.0  0.2 213080  2752 ?        S    15:27   0:00 /usr/sbin/httpd -DFOREGROUND

apache    2047  0.0  0.2 213080  2752 ?        S    15:27   0:00 /usr/sbin/httpd -DFOREGROUND

test      2077  0.0  0.0 112640   964 pts/0    R+   15:28   0:00 grep --color=auto http