**Exercise: Playbooks - Includes**

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 'INCLUDE' concepts from the video:

- Uses SSH

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

- Connects to ALL servers

- The playbook runs as 'sudo'

- Skip gathering remote facts

- Create a file in a directory called 'plays', this file should contain the single task to install the telnet package

Mkdir plays

Cd plays

Vim packages.yml

* name: install the telnet client

yum : pkg=telnet state=present

- Include that file in your playbook as a task that will result in the play in the file in the step above being run

- Using the 'raw' module, verify the telnet package was installed and write the results to the remote server /home/test directory in a file called 'pkgs.log'

[test@tcox3 Playbooks]$ vim include.yml

[test@tcox3 Playbooks]$ cat include.yml

--- # FULL INCLUDE TASKS EXAMPLE

- hosts: apacheweb

  user: test

  sudo: yes

  connection: ssh

  gather\_facts: no

  tasks:

    - include: plays/packages.yml

    - name: Verify the telnet package is installed

      raw: yum list installed | grep telnet > /home/test/pkgs.log

4. Run the playbook and display the results.

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

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

TASK: [Install the telnet client] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [tcox4.mylabserver.com]

TASK: [Install the Lynx web browser] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [tcox4.mylabserver.com]

TASK: [Verify the telnet package is installed] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [tcox4.mylabserver.com]

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

tcox4.mylabserver.com      : ok=3    changed=0    unreachable=0    failed=0

[test@tcox3 Playbooks]$ ssh tcox4

Last login: Tue Oct 27 13:25:23 2015 from ec2-52-23-228-15.compute-1.amazonaws.com

[test@tcox4 ~]$ ls -al pkgs.log

-rw-r--r--. 1 root root 81 Oct 27 13:25 pkgs.log

[test@tcox4 ~]$ cat pkgs.log

telnet.x86\_64                         1:0.17-59.el7                    @base