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VIDEO CLASSROOM

Lab: Implementing Playbooks

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Performance Checklist

In this lab, you will configure and perform administrative tasks on managed hosts using a playbook.

Outcomes

You should be able to construct and execute a playbook to install, configure, and verify the status of web and database services on a managed host.

Log in to workstation as student using student as the password.

On workstation, run the lab playbook-review start command. This function ensures that the managed host, serverb.lab.example.com, is reachable on the network. It also ensures that the correct Ansible configuration file and inventory file are installed on the control node.

[student@workstation ~]\$ lab playbook-review start

A working directory, /home/student/playbook-review, has been created on workstation for the Ansible project. The directory has already been populated with an ansible.cfg configuration file and an inventory file. The managed host, serverb.lab.example.com, is already defined in this inventory file.

Procedure 2.6. Instructions

NOTE

The playbook used by this lab is very similar to the one you wrote in the preceding guided exercise in this chapter. If you do not want to create this lab's playbook from scratch, you can use that exercise's playbook as a starting point for this lab.

If you do, be careful to target the correct hosts and change the tasks to match the instructions for this exercise.

Create a new playbook, /home/student/playbook-review/internet.yml, and add the necessary entries to start a first play named Enable internet services and specify its intended managed host, serverb.lab.example.com. Add an entry to enable privilege escalation, and one to start a task list.

1.1.	Add the following entry to the beginning of /home/student/playbook-review/internet.yml to begin the YAML format.
1.2.	Add the following entry to denote the start of a play with a name of Enable internet services.
	- name: Enable internet services
1.3.	Add the following entry to indicate that the play applies to the serverb managed host.
	hosts: serverb.lab.example.com
1.4.	Add the following entry to enable privilege escalation.
	become: yes
1.5.	Add the following entry to define the beginning of the tasks list.
	tasks:
HIDE SOLUTION	

Add the required entries to the /home/student/playbook-review/internet.yml file to define a task that installs the latest versions of firewalld, httpd, mariadb-server, php, and php-mysqlnd packages.

```
- name: latest version of all required packages installed
yum:
name:
- firewalld
- httpd
- mariadb-server
- php
- php-mysqlnd
state: latest
```

Add the necessary entries to the /home/student/playbook-review/internet.yml file to define the firewall configuration tasks. They should ensure that the firewalld service is enabled and running, and that access is allowed to the http service.

```
- name: firewalld enabled and running
service:
    name: firewalld
    enabled: true
    state: started

- name: firewalld permits http service
    firewalld:
    service: http
    permanent: true
    state: enabled
    immediate: yes
```

Add the necessary tasks to ensure the httpd and mariadb services are enabled and running.

```
- name: httpd enabled and running
service:
name: httpd
enabled: true
state: started

- name: mariadb enabled and running
service:
name: mariadb
enabled: true
state: started

HIDE SOLUTION
```

Add the necessary entries to define the final task for generating web content for testing. Use the get_url module to copy http://materials.example.com/labs/playbook-review/index.php to /var/www/html/ on the managed host.

```
- name: test php page is installed

get_url:

url: "http://materials.example.com/labs/playbook-review/index.php"

dest: /var/www/html/index.php

mode: 0644

HIDE SOLUTION
```

In /home/student/playbook-review/internet.yml, define another play for the task to be performed on the control node. This play will test access to the web server that should be running on the serverb managed host. This play does not require privilege escalation, and will run on the localhost managed host.

```
6.1. Add the following entry to denote the start of a second play with a name of Test internet web server.
- name: Test internet web server
6.2. Add the following entry to indicate that the play applies to the localhost managed host.
```

hosts: localhost

6.3. Add the following line after the hosts keyword to disable privilege escalation for the second play.

become: no

6.4. Add an entry to the /home/student/playbook-review/internet.yml file to define the beginning of the tasks list.

tasks:

HIDE SOLUTION

Add a task that tests the web service running on serverb from the control node using the uri module. Check for a return status code of 200.

```
- name: connect to internet web server
uri:
url: http://serverb.lab.example.com
status_code: 200

HIDE SOLUTION
```

Verify the syntax of the internet.yml playbook.

```
[student@workstation playbook-review]$ ansible-playbook --syntax-check \
> internet.yml
playbook: internet.yml
HIDE SOLUTION
```

Use the ansible-playbook command to run the playbook. Read through the output generated to ensure that all tasks completed successfully.

```
[student@workstation playbook-review]$ ansible-playbook internet.yml
ok: [serverb.lab.example.com]
changed: [serverb.lab.example.com]
ok: [serverb.lab.example.com]
changed: [serverb.lab.example.com]
changed: [serverb.lab.example.com]
changed: [serverb.lab.example.com]
changed: [serverb.lab.example.com]
ok: [localhost]
ok: [localhost]
localhost : ok=2 changed=0 unreachable=0 serverb.lab.example.com : ok=7 changed=5 unreachable=0
                     failed=0
                     failed=0
```

HIDE SOLUTION

Evaluation

Grade your work by running the lab playbook-review grade command from your workstation machine. Correct any reported failures and rerun the script until successful.

[student@workstation ~]\$ lab playbook-review grade

Finish

On workstation, run the lab playbook-review finish script to clean up the resources created in this lab.

[student@workstation ~]\$ lab playbook-review finish

This concludes the lab.

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