Complete Ansible Automation Training

Ansible Automation with Simple Playbooks

YAML File Syntax

IMPORTANT Things to Remember!

- ✓ All tasks are executed in sequential order
- ✓ Each task is processed one at a time
- ✓ Indentation is extremely important
- ✓ No <tabs> in yaml file
- ✓ Only use spaces
- ✓ Empty lines have no value
- ✓ File extension is usually .yml or .yaml

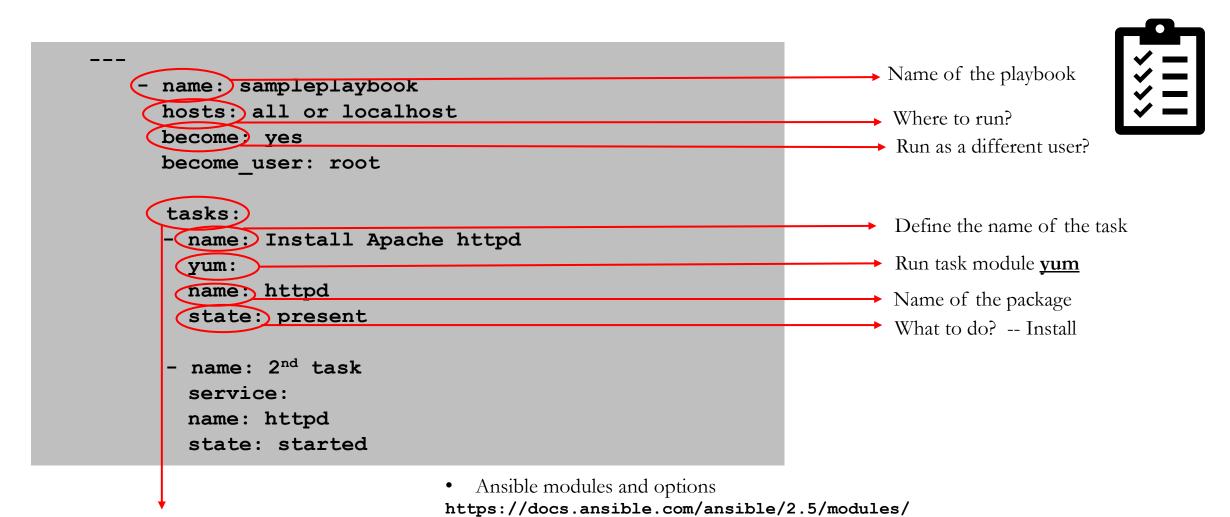


YAML File Syntax

IMPORTANT Things to Remember!

- ✓ No difference in double quotes or NO quotes for a task <u>name:</u>
- ✓ YAML Playbook files can be placed anywhere on the filesystem as long as they are being executed with absolute path
- ✓ When a flat file is written in YAML format to execute tasks/plays then it is called playbook
- ✓ There is NO need to modify the file permission

YAML File Syntax Example



Declare task

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Creating First Playbook

- There are online yaml tools you can use to create Playbooks
 - https://onlineyamltools.com/edit-yaml
 - https://codebeautify.org/yaml-editor-online
- Tools to download.
 - Notepad++ Windows
- Take a snapshot after installing Ansible software

```
# su - root
# mkdir /etc/ansible/playbooks
# cd /etc/ansible/playbooks
# vim first.yml
---
- name: "My first playbook"
hosts: localhost

tasks:
- name: "test connectivity"
ping:
```

```
    Check syntax of playbook
    # anisble-playbook --syntax-check first.yml
    Or to do a dry run
    # anisble-playbook --check first.yml
```

Run the playbook anisble-playbook /root/ansible/first.yml



Creating First Playbook

Please note:

- Running ansible without a playbook
- # ansible
- Running ansible with a playbook
- # ansible-playbook



Output Playbook

This playbook will print "Hello World" on localhost

```
# cd /etc/ansible/playbook
# vim helloworld.yml

---
- name: My Second playbook
hosts: localhost

tasks:
- name: Print Hello World
debug: msg="Hello World"

Run debug module which prints statements during execution
```

```
Run the playbook # anisble-playbook helloworld.yml
```



Multiple Tasks Playbook

The playbook will ping localhost and print "Hello World"

Run the playbook # anisble-playbook mtask.yml



Installing and Starting a Package

```
# vim packinstall.yml
- name: Installing and Running apache
 hosts: localhost
 tasks:
  - name: Install apache
    yum:
    name: httpd
     state: present
 - name: start httpd
    service:
    name: httpd
     state: started
```

```
Run the playbook # anisble-playbook packinstall.yml
```

