

CREATING ANSIBLE PLAYBOOKS

Installing software using Ansible Playbook

Pre-requisite

- 1. 3 AWS Servers
- 2. Keyless Access configured between master and slaves
- 3. Configuration of slaves in Ansible Master's <a href=//etc/ansible/hosts/
- 4. Slaves are called slave1 and slave2 respectively

Creating Ansible Playbook

Step 1: Edit an ansible playbook in a new folder called 'ansible', by using the following commands:

```
$ mkdir ansible
$ cd ansible
$ sudo nano play.yaml
```

Step 2: Edit the play.yaml with the following syntax:

```
- hosts: slave1
become: yes
name: Installing apache2 on slave1
tasks:
- name: Install apache2
apt: name=apache2 state=latest
- hosts: slave2
become: yes
name: Installing nginx on slave2
tasks:
- name: installing nginx
apt: name=nginx state=latest
```



```
GNU nano 2.9.3

--

- hosts: slave1
become: yes
name: Installing nginx on slave1
tasks:
- name: Installing
apt: name=nginx state=latest

- hosts: slave2
become: yes
name: Installing apache2 on slave2
tasks:
- name: Installing
apt: name=apache2 state=latest
```

Step3: Run the Ansible playbook using the following command:

```
$ ansible-playbook play.yaml
```

```
ubuntu@ip-172-31-24-91:~/ansible$ ansible-playbook play.yaml
ok: [slave1]
changed: [slave1]
changed: [slave2]
: ok=2 changed=1 unreachable=0
: ok=2 changed=1 unreachable=0
slave1
                 failed=0
                    skipped=0
                       rescued=0
                           ianored=0
                failed=0 skipped=0
                       rescued=0
slave2
                           ignored=0
```

You have successfully installed nginx and apache2 on slave machines, based on their name.



Executing scripts using Ansible Playbook

Step 1: Create a sample script in the ansible folder; here we are creating a script to enter some text in a file

```
$ sudo nano script.sh
```

Write the following syntax in the script:

```
#!/bin/sh
echo "hello world" > /var/www/html/1.html
```

Step 2: Let's create the playbook now, which is going to execute this script. Let's add a task to our previous written playbook for slave2.

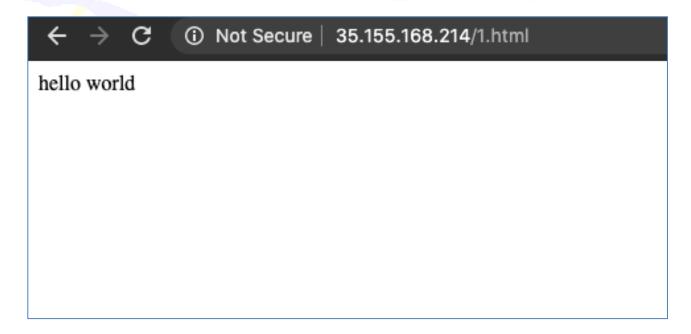
```
---
- hosts: slave1
become: yes
name: Installing apache2 on slave1
tasks:
- name: Install apache2
apt: name=apache2 state=latest
- hosts: slave2
become: yes
name: Installing nginx on slave2
tasks:
- name: installing nginx
apt: name=nginx state=latest
- name: Running a script
script: script.sh
```



Step 3: Let's run the script now, using the following syntax:

\$ ansible-playbook play.yaml

Let's verify the output by going to our browser, and navigating to <slave-2-ip>/1.html



With this, we have successfully completed our Ansible Playbook hands-on.