Assignment

Prerequesites:

2 instance one for master and one for slave

ensure ansible is installed in master node
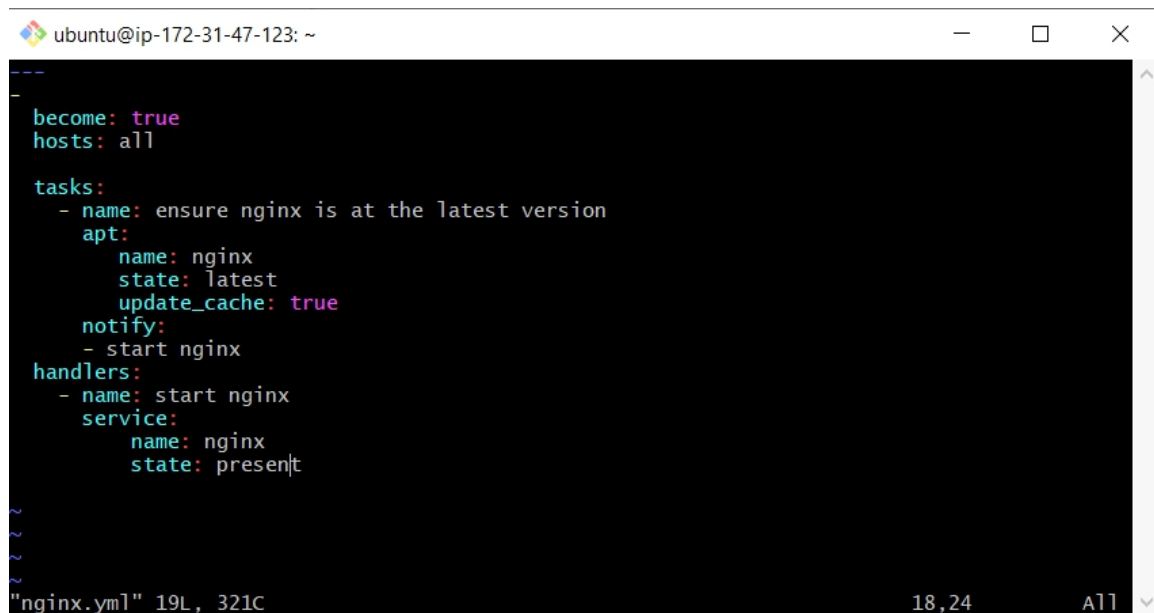
establish a connection between master node and hostnode

Playbook for nginx:

Step1:

create a playbook:

vi playbook.yml

```
ubuntu@ip-172-31-47-123: ~                                    —    □    X
---
-
 become: true
 hosts: all

 tasks:
   - name: ensure nginx is at the latest version
     apt:
        name: nginx
        state: latest
        update_cache: true
     notify:
     - start nginx
 handlers:
   - name: start nginx
     service:
        name: nginx
        state: present




~
~
~
~
"nginx.yml" 19L, 321C                              18,24         All
```

step 2:

Run the command:

step 3:

check in host node whether it is installed or not

```
ubuntu@ip-172-31-32-218:~$ ps -ef | grep nginx
ubuntu    17495 15765  0 02:33 pts/2    00:00:00 grep --color=auto nginx
ubuntu@ip-172-31-32-218:~$ nginx -v
nginx version: nginx/1.14.0 (Ubuntu)
ubuntu@ip-172-31-32-218:~$
```

Playbook for Apache:

step1:

create a playbook for Apache:

vi palybook.yml

```
---
-
  become: true
  hosts: all
  tasks:

    -
      apt: "name=apache2 update_cache=yes state=latest"
      name: "install apache2"
```

```
"playbook.yml" 11L, 152C                                    8,38           All
```

step 2:

run the playbook


```
ubuntu@ip-172-31-47-123:~$ vi playbook.yml
ubuntu@ip-172-31-47-123:~$ ansible-playbook -i hosts playbook.yml --syntax-check

playbook: playbook.yml
ubuntu@ip-172-31-47-123:~$ ansible-playbook -i hosts playbook.yml

PLAY [all] ************************************************************************

TASK [Gathering Facts] ***********************************************************
[DEPRECATION WARNING]: Distribution Ubuntu 18.04 on host ec2-13-234-38-54.ap-
south-1.compute.amazonaws.com should use /usr/bin/python3, but is using
/usr/bin/python for backward compatibility with prior Ansible releases. A
future Ansible release will default to using the discovered platform python for
 this host. See https://docs.ansible.com/ansible/2.9/reference_appendices/inter
preter_discovery.html for more information. This feature will be removed in
version 2.12. Deprecation warnings can be disabled by setting
deprecation_warnings=False in ansible.cfg.
ok: [ec2-13-234-38-54.ap-south-1.compute.amazonaws.com]

TASK [install apache2] ***********************************************************
[WARNING]: Updating cache and auto-installing missing dependency: python-apt
changed: [ec2-13-234-38-54.ap-south-1.compute.amazonaws.com]

PLAY RECAP ***********************************************************************
ec2-13-234-38-54.ap-south-1.compute.amazonaws.com : ok=2    changed=1    unreach
able=0    failed=0    skipped=0    rescued=0    ignored=0

ubuntu@ip-172-31-47-123:~$ vi playbook.yml
ubuntu@ip-172-31-47-123:~$
```

step 3:check the Result by giving host dns address in uri

It has to dispaly Apache2 Default page

Apache2 Ubuntu Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at /var/www/html/index.html) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|       `--  ports.conf
|-- mods-enabled
|       |-- *.load
|       `-- *.conf
|-- conf-enabled
|       `-- *.conf
|-- sites-enabled
|       `-- *.conf
```

- apache2.conf is the main configuration file. It puts the pieces together by including all remaining configuration files when starting up the web server.
- ports.conf is always included from the main configuration file. It is used to determine the listening ports for incoming connections, and this file can be customized anytime.