

PRACTICAL :11

Aim: Ad-hoc Ansible Commands

Step 1: Update your VM

```
tempuser@ubuntu:~$ sudo apt update
[sudo] password for tempuser:
Hit:1 http://security.ubuntu.com/ubuntu xenial-security InRelease
Hit:2 http://archive.canonical.com/ubuntu xenial InRelease
Hit:3 http://ppa.launchpad.net/cdemu/ppa/ubuntu xenial InRelease
Get:4 http://dl.google.com/linux/chrome/deb stable InRelease [1,825 B]
Ign:5 http://download.opensuse.org/repositories/home:/jgeboski/xUbuntu_16.04 ./ InRelease
Get:7 http://repo.yandex.ru/yandex-browser/deb beta InRelease [4,333 B]
Hit:8 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Hit:9 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease
Hit:10 http://ppa.launchpad.net/deadsnakes/ppa/ubuntu xenial InRelease
Hit:11 http://ppa.launchpad.net/kamilion/ubuntu-builder/ubuntu xenial InRelease
Hit:12 http://ppa.launchpad.net/kxstudio-debian/libs/ubuntu lucid InRelease
Ign:13 http://ppa.launchpad.net/kxstudio-debian/music/ubuntu lucid InRelease
Hit:14 http://ppa.launchpad.net/kxstudio-debian/plugins/ubuntu lucid InRelease
Hit:15 http://ppa.launchpad.net/kxstudio-debian/apps/ubuntu lucid InRelease
```

Step 2: Install Ansible

```
tempuser@ubuntu:~$ sudo apt install ansible -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
ansible is already the newest version (2.0.0.2-2ubuntu1.3).
The following packages were automatically installed and are no longer required:
 libgles1-mesa libmircommon5 libqmi-glib1 libqpdf17 linux-hwe-edge-tools-4.10.0-19
 linux-tools-4.10.0-19-generic snap-confine snapd-login-service
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 13 not upgraded.
tempuser@ubuntu:~$
```

Step 3: Check version:

```
tempuser@ubuntu:~$ ansible --version
ansible 2.0.0.2
  config file = /etc/ansible/ansible.cfg
  configured module search path = Default w/o overrides
tempuser@ubuntu:~$ config file = /etc/ansible/ansible.cfg
No command 'config' found, did you mean:
  Command 'fconfig' from package 'redboot-tools' (universe)
  Command 'vconfig' from package 'vlan' (main)
  Command 'zconfig' from package 'python-zconfig' (universe)
  Command 'mconfig' from package 'mono-devel' (main)
  Command 'iconfig' from package 'ipmiutil' (universe)
config: command not found
tempuser@ubuntu:~$ gedit host.ini
```

```
File Edit View Search Tools Documents Help
Open [+]
[local]
localhost ansible_connection=local|
```

1. Ping the remote host ansible local -i host.ini -m ping

```
tempuser@ubuntu:~$ ansible local -i host.ini -m ping
localhost | SUCCESS => {
  "changed": false,
  "ping": "pong"
}
tempuser@ubuntu:~$
```

2. Check uptime ansible local -i host.ini -a "uptime"

```
tempuser@ubuntu:~$ ansible local -i host.ini -a "uptime"
localhost | SUCCESS | rc=0 >>
  13:53:07 up 3:27, 3 users, load average: 0.09, 0.12, 0.12
tempuser@ubuntu:~$
```

3. Install a package ansible local -i host.ini -m apt -a "name=nginx state=present update_cache=yes" --become

```
tempuser@ubuntu:~$ ansible local -i host.ini -m apt -a "name=nginx state=present update_cache=yes" --become
localhost | FAILED! => {
  "changed": false,
  "failed": true,
  "msg": "Could not fetch updated apt files"
}
tempuser@ubuntu:~$
```

4. Start a service ansible local -i host.ini -m service -a "name=nginx state=started" --become

```
tempuser@ubuntu:~$ ansible local -i host.ini -m service -a "name=nginx state=started" --become
localhost | SUCCESS => {
  "changed": false,
  "name": "nginx",
  "state": "started"
}
tempuser@ubuntu:~$
```

PRACTICAL :12

Aim: Using Ansible Playbooks

Install and Start Nginxinstall_nginx.yml:

- name: Install and start Nginx on web servers hosts: webserver become:

truetasks:

- name: Install

 Nginx apt:

 name:

 nginx

 state: present

 update_cache:

 yes

- name: Start Nginx

 service:

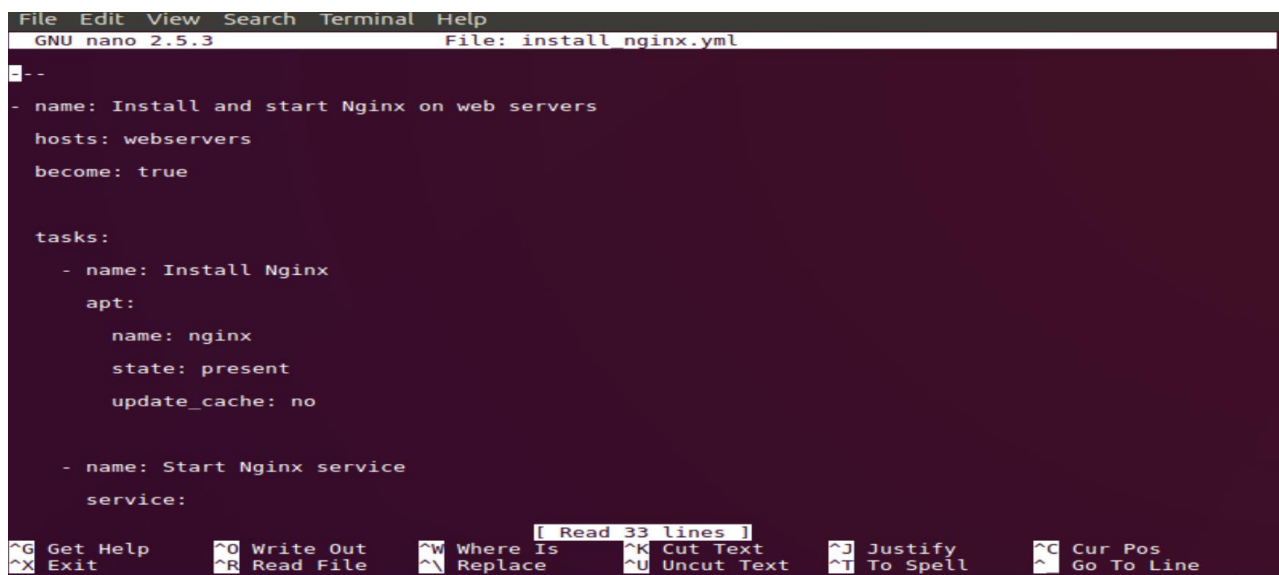
 name:

 nginx

 state: started

 enabled: true

```
sims@sims-virtual-machine:~$ nano install_nginx.yml
sims@sims-virtual-machine:~$
```



```
File Edit View Search Terminal Help
GNU nano 2.5.3 File: install_nginx.yml
--
- name: Install and start Nginx on web servers
  hosts: webserver
  become: true

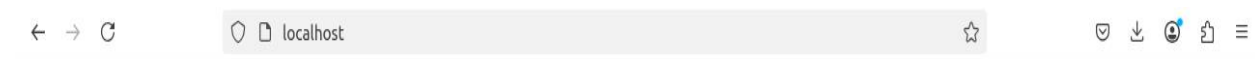
  tasks:
    - name: Install Nginx
      apt:
        name: nginx
        state: present
        update_cache: no

    - name: Start Nginx service
      service:
```

[Read 33 lines]

| | | | | | |
|----------|-----------|----------|------------|----------|------------|
| Get Help | Write Out | Where Is | Cut Text | Justify | Cur Pos |
| Exit | Read File | Replace | Uncut Text | To Spell | Go To Line |

```
tempuser@ubuntu:~$ ansible-playbook -i host.ini install_nginx.yml --become
PLAY [Install and start Nginx on web servers] *****
TASK [setup] *****
ok: [localhost]
TASK [Install Nginx] *****
ok: [localhost]
TASK [Start Nginx service] *****
ok: [localhost]
PLAY RECAP *****
localhost : ok=3    changed=0    unreachable=0    failed=0
tempuser@ubuntu:~$ █
```



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.