

## Step 1.

CN:

```
ailed to search for file: cannot update read-only repo
[root@localhost ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.100 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::f655:67cc:541d:acb2 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:ff:a2:4e txqueuelen 1000 (Ethernet)
    RX packets 4361 bytes 2531190 (2.4 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 886 bytes 75103 (73.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
```

TN:

```
root@localhost ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.108 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::af9a:3f02:107a:bab7 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:da:6f:5d txqueuelen 1000 (Ethernet)
    RX packets 131 bytes 25261 (24.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 84 bytes 9798 (9.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
```

## Step 2: configuring CN

- *Pip3 install ansible*

```
root@localhost ~]# pip3 install ansible
WARNING: Running pip install with root privileges is generally not a good idea. Try `pip3 install --user` instead.
Collecting ansible
  Downloading https://files.pythonhosted.org/packages/f2/8f/09054d2e2bf4eaa1754956e08b5aeb0e51089e620e50438e501d83eda1/ansible-2.10.2.tar.gz (40.6MB)
    100% |#####| 40.6MB 29kB/s
Collecting ansible-base<2.11,>=2.10.3 (from ansible)
  Downloading https://files.pythonhosted.org/packages/2e/d1/92422f8f53ae2d4e75ebdc2be216a9ca2796b5d9679f20ed0239e86d8cf/ansible-base-2.10.3.tar.gz (5.8MB)
    100% |#####| 5.8MB 208kB/s
Collecting jinja2 (from ansible-base<2.11,>=2.10.3->ansible)
  Downloading https://files.pythonhosted.org/packages/30/9e/f663a2aa66a09d838042ae1a2c559828bb9b41ea3a6efa20a20fd92b121/Jinja2-2.11.2-py2.py3-none-any.whl (125kB)
    100% |#####| 133kB 1.6MB/s
Requirement already satisfied: PyYAML in /usr/lib64/python3.6/site-packages (from ansible-base<2.11,>=2.10.3->ansible)
Requirement already satisfied: cryptography in /usr/lib64/python3.6/site-packages (from ansible-base<2.11,>=2.10.3->ansible)
Collecting packaging (from ansible-base<2.11,>=2.10.3->ansible)
```

- *Vim ip.txt*

```
192.168.0.14
[root@localhost ~]# vim ip.txt
[root@localhost ~]# ansible -i ip.txt hosts
```

*Write the ip of TN in it. In may case it is 192.168.0.108*

- *Ansible all --list-hosts*

```
[root@localhost ~]# ansible all --list-hosts
hosts (1):
  192.168.0.108
```

- *Configure the personal dir. Of config file of Ansible.*

*Mkdir /etc/ansible*

*Vim etc/ansible/andible.cgf ; giving the inventory path*

```
[defaults]
inventory = /root/ip.txt
```

*Ansible --version*

```
[root@localhost ~]# ansible --version
ansible 2.10.3
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/local/lib/python3.6/site-packages/ansible
  executable location = /usr/local/bin/ansible
  python version = 3.6.8 (default, Jan 11 2019, 02:17:16) [GCC 8.2.1 20180905 (Red Hat
```

- *Modifying the Inventory: to provide IP, Protocol, user name. password.*

```
root@localhost:~ x root@localhost:~ x root@localhost:~ x
192.168.0.108 ansible_user=root ansible_ssh_pass=redhat ansible_connection=ssh
```

- *Install sshpass : Ansible work on top of python and sshpass.*

*1. Adding the repository for installing sshpass.*

```
[root@localhost ~]# dnf install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.
Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Repository 'docker' is missing name in configuration, using id.
Docker CE Stable - x86_64 277 B/s | 381 B 00:01
Failed to synchronize cache for repo 'docker-ce-stable', ignoring this repo.
```

- ```
[root@localhost ~]# yum install sshpass
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.
```
- 2.

- **Step 3: Finally, run the code**  
***Ansible all -m service -a "name=httpd state=satrted"***

The image shows two terminal windows from Oracle VM VirtualBox. The left window, titled 'redhat\_arth [Running] - Oracle VM VirtualBox', shows the execution of an Ansible command: `ansible all -m service -a "name=httpd state=satrted"`. The output indicates that the service was successfully started on the host 192.168.0.108. The right window, titled 'redhat\_pyhton [Running] - Oracle VM VirtualBox', shows the execution of `systemctl status httpd`. The output shows that the httpd service is loaded, active (running), and listening on port 80. It also displays the main PID (4894) and the tasks (213) for the service.

```
redhat_arth [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Thu 01:46
root@localhost:~
File Edit View Search Terminal Tabs Help
root@localhost:~ x root@localhost:~ x root@localhost:~ x
[root@localhost ~]# ansible all -m service -a "name=httpd state=satrted"
192.168.0.108 | CHANGED => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/libexec/platform-python"
  },
  "changed": true,
  "name": "httpd",
  "state": "started",
  "status": {
    "ActiveEnterTimestampMonotonic": "0",
    "ActiveExitTimestampMonotonic": "0",
    "ActiveState": "inactive",
    "After": "systemd-journald.socket remote-fs.target tmp.mount nss-lookup.target
sysinit.target basic.target httpd-init.service system.slice network.target -.mount syst
emd-tmpfiles-setup.service",
    "AllowIsolate": "no",
    "AmbientCapabilities": "",
    "AssertResult": "no",
    "AssertTimestampMonotonic": "0",
    "Before": "shutdown.target",
    "BlockIOAccounting": "no",
    "BlockIOWeight": "[not set]",
    "CPUAccounting": "no",
    "CPUQuotaPerSecUsec": "infinity",
    "CPUSchedulingPolicy": "0",
    "CPUSchedulingPriority": "0",

```

```
redhat_pyhton [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Thu 01:46
root@localhost:~
File Edit View Search Terminal Help
[root@localhost ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor pres
   Active: active (running) since Wed 2020-11-04 23:10:11 IST; 14s ago
     Docs: man:httpd.service(8)
   Main PID: 4894 (httpd)
    Status: "Running, listening on: port 80"
     Tasks: 213 (Limit: 11511)
   Memory: 18.5M
    CGroup: /system.slice/httpd.service
            └─4894 /usr/sbin/httpd -DFOREGROUND
              4895 /usr/sbin/httpd -DFOREGROUND
              4896 /usr/sbin/httpd -DFOREGROUND
              4897 /usr/sbin/httpd -DFOREGROUND
              4898 /usr/sbin/httpd -DFOREGROUND

Nov 04 23:10:11 localhost.localdomain systemd[1]: Starting The Apache HTTP Serve
Nov 04 23:10:11 localhost.localdomain httpd[4894]: AH00558: httpd: Could not re
Nov 04 23:10:11 localhost.localdomain httpd[4894]: Server configured, listening
Nov 04 23:10:11 localhost.localdomain systemd[1]: Started The Apache HTTP Serve
[root@localhost ~]# S

bash: S: command not found...
[root@localhost ~]#
```