Configuring ANSIBLE

First OS IP <Control Node>

```
[root@localhost ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.43.61  netmask 255.255.255.0  broadcast 192.168.43.255
        inet6 2401:4900:36ba:894f:c6f8:147b:42de:aa58  prefixlen 64  scopeid 0x0<global
>
        inet6 fe80::fcf5:4772:682c:ed20  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:43:c7:d9  txqueuelen 1000  (Ethernet)
        RX packets 62  bytes 19948 (19.4 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 97  bytes 11670 (11.3 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

Now second IP<TARGET SYSTEM>

```
[root@localhost ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.43.216  netmask 255.255.255.0  broadcast 192.168.43.255
        inet6 fe80::3e26:9443:6fb:7a71  prefixlen 64  scopeid 0x20<link>
        inet6 2401:4900:36ba:894f:e801:3e60:f17b:6431  prefixlen 64  scopeid 0x0<globa
>
        ether 08:00:27:af:f1:28  txqueuelen 1000  (Ethernet)
        RX packets 810  bytes 456651 (445.9 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 254  bytes 30456 (29.7 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

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

1.Pip3 install ansible

```
[root@localhost ~]# pip3 install ansible
WARNING: Running pip install with root privileges is generally not a good idea.
p3 install --user` instead.
Collecting ansible
  Downloading https://files.pythonhosted.org/packages/f2/8f/09054d2e2bf4eaa17549
fae1b0e51089e620e50438e501d83eda1/ansible-2.10.2.tar.gz (40.6MB)
    100% |████████████████████████████████| 40.6MB 31kB/s
Collecting ansible-base<2.11,>=2.10.3 (from ansible)
  Downloading https://files.pythonhosted.org/packages/2e/d1/92422f8f53ae2d4e75eb
86a9ca2796b5d9679f20ed0239e86d8cf/ansible-base-2.10.3.tar.gz (5.8MB)
    100% |████████████████████████████████| 5.8MB 150kB/s
Collecting jinja2 (from ansible-base<2.11,>=2.10.3->ansible)
  Downloading https://files.pythonhosted.org/packages/30/9e/f663a2aa66a09d838042
659828bb9b41ea3a6efa20a20fd92b121/Jinja2-2.11.2-py2.py3-none-any.whl (125kB)
    100% |████████████████████████████████| 133kB 721kB/s
Requirement already satisfied: PyYAML in /usr/lib64/python3.6/site-packages (fro
```

2.Vim ip.txt

>> Target OS IP

3.ansible all --list-hosts

4.ansible –version

```
 [root@localhost ~]# ansible all --list-hosts
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that
the implicit localhost does not match 'all'
  hosts (0):
[root@localhost ~]# ansible --version
ansible 2.10.3
  config file = None
  configured module search path = ['/root/.ansible/plugins/modules', '/usr/share/
e/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 (Re
8.2.1-3)]
[root@localhost ~]# mkdir /etc/ansible
[root@localhost ~]# vim /etc/ansible/ansible.cfg
```

```
[root@localhost ~]# ansible all --list-hosts
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the
implicit localhost does not match 'all'
  hosts (0):
[root@localhost ~]# vim /etc/ansible/ansible.cfg
[root@localhost ~]# ansible all --list-hosts
  hosts (1):
    192.168.43.216
[root@localhost ~]# vim /root/ip.txt
[root@localhost ~]# ansible all -m service -a "name=httpd state=started"
192.168.43.216 | FAILED! => {
    "msg": "to use the 'ssh' connection type with passwords, you must install the ss
ss program"
}
```

5.Vim /etc/ansible/ansible.cfg

```
File  Edit  View  Search  Terminal  Help
[defaults]
inventory=/root/ip.txt
~
~
~
```

6.Vim /root/ip.txt

```
                                                    root@localhost:~
File  Edit  View  Search  Terminal  Help
192.168.43.216 ansible_user=root ansible_ssh_pass=Abhishek
~
~
~
~
```

7.dnf install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm

```
[root@localhost ~]# dnf install https://dl.fedoraproject.org/pub/epel/epel-release-late
st-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 subscript
ion-manager to register.
Repository 'docker' is missing name in configuration, using id.
Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Docker CE Stable - x86_64                          262  B/s | 381  B     00:01
Failed to synchronize cache for repo 'docker-ce-stable', ignoring this repo.
Last metadata expiration check: 0:03:15 ago on Thu 05 Nov 2020 12:15:13 AM IST.
epel-release-latest-8.noarch.rpm                    10 kB/s |  22 kB     00:02
Dependencies resolved.
================================================================================
 Package              Arch           Version             Repository           Size
================================================================================
Installing:
 epel-release         noarch         8-8.el8             @commandline         22 k

Transaction Summary
================================================================================
Install  1 Package

Total size: 22 k
```

9.Dnf install sshpass

10.ansible all -m service -a "name=httpd state=started"

```
}
[root@localhost ~]# dnf install sshpass
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use subsc
ion-manager to register.
Repository 'docker' is missing name in configuration, using id.
Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Docker CE Stable - x86_64                          233  B/s | 381  B     00:01
Failed to synchronize cache for repo 'docker-ce-stable', ignoring this repo.
Last metadata expiration check: 0:14:06 ago on Thu 05 Nov 2020 12:20:01 AM IST.
Package sshpass-1.06-9.el8.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@localhost ~]# ansible all -m service -a "name=httpd state=started"
192.168.43.216 | CHANGED => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/libexec/platform-python"
    },
    "changed": true,
    "name": "httpd",
    "state": "started",
    "status": {
        "ActiveEnterTimestampMonotonic": "0",
        "ActiveExitTimestampMonotonic": "0",
```

Final Result

The final result will be obtained from the status command checking in the Target OS that weather the Status is updated Automatically or not.
This Automatic word carries a very high concept.

Which we will se in other repos.

```
[root@localhost ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: dis>
   Active: inactive (dead)
     Docs: man:httpd.service(8)

[root@localhost ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: dis>
   Active: active (running) since Thu 2020-11-05 00:48:39 IST; 35s ago
     Docs: man:httpd.service(8)
 Main PID: 14104 (httpd)
   Status: "Running, listening on: port 80"
    Tasks: 213 (limit: 11511)
   Memory: 17.2M
   CGroup: /system.slice/httpd.service
           ├─14104 /usr/sbin/httpd -DFOREGROUND
           ├─14105 /usr/sbin/httpd -DFOREGROUND
           ├─14106 /usr/sbin/httpd -DFOREGROUND
           ├─14107 /usr/sbin/httpd -DFOREGROUND
           └─14108 /usr/sbin/httpd -DFOREGROUND

Nov 05 00:48:39 localhost.localdomain systemd[1]: Starting The Apache HTTP Server...
Nov 05 00:48:39 localhost.localdomain httpd[14104]: AH00558: httpd: Could not reliably>
Nov 05 00:48:39 localhost.localdomain httpd[14104]: Server configured, listening on: p>
```