

## Ansible - 2

You have been asked to:

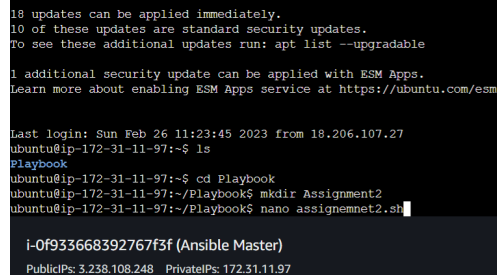
- Create a script which can add text “This text has been added by custom script” to /tmp/1.txt
- Run this script using Ansible on all the hosts

Let us create a shell file which when ran will create a file with given statement.

**mkdir assignment2.yaml**

**cd assignment2.yaml**

**Nano assignment2.sh**

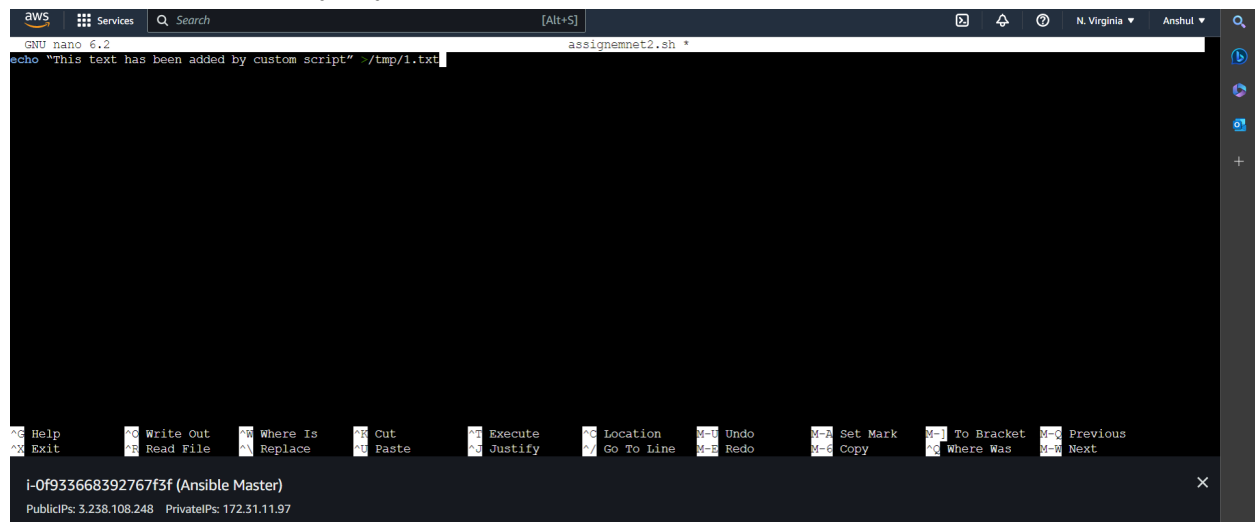


18 updates can be applied immediately.  
10 of these updates are standard security updates.  
To see these additional updates run: apt list --upgradable  
  
1 additional security update can be applied with ESM Apps.  
Learn more about enabling ESM Apps service at <https://ubuntu.com/esm>  
  
Last login: Sun Feb 26 11:23:45 2023 from 18.206.107.27  
ubuntu@ip-172-31-11-97:~\$ ls  
Playbook  
ubuntu@ip-172-31-11-97:~\$ cd Playbook  
ubuntu@ip-172-31-11-97:~/Playbook\$ mkdir Assignment2  
ubuntu@ip-172-31-11-97:~/Playbook\$ nano assignmemet2.sh

i-Of933668392767f3f (Ansible Master)  
PublicIPs: 3.238.108.248 PrivateIPs: 172.31.11.97

**Paste: echo “This text has been added by custom script” >/tmp/1.txt**

When this script is ran by any means it will create a 1.txt text file at /tmp with contents as stated.



aws Services Q Search [Alt+S] N. Virginia Anshul

GNU nano 6.2 assignmemet2.sh \*

echo "This text has been added by custom script" >/tmp/1.txt

^G Help ^O Write Out ^W Where Is ^R Cut ^T Execute ^C Location ^U Undo ^M-A Set Mark ^M-J To Bracket ^M-C Previous  
^X Exit ^R Read File ^N Replace ^P Paste ^J Justify ^\_ Go To Line ^M-E Redo ^M-G Copy ^M-W Where Was ^M-W Next

i-Of933668392767f3f (Ansible Master)  
PublicIPs: 3.238.108.248 PrivateIPs: 172.31.11.97

Now let us create a Playbook yaml file which will run this script in both the servers.

```
---
- name: task for assign2 on slave1
  hosts: slave1
  become: true
  tasks:
    - name: running a script on slave1
      script: assignemnet2.sh
- name: task for assign2 on slave2
  hosts: slave2
  become: true
  tasks:
    - name: running a script on slave2
      script: assignemnet2.sh
```

The script is defining two tasks to be performed on two different hosts, "slave1" and "slave2", respectively.

For the task on "slave1", the script specifies that it should run a shell script called "assignemnet2.sh", with elevated privileges (using the "become: true" option).

The task on "slave2" is similar, except that it is performed on a different host.

LEt us create Playbook for this. Just create a file:

nano <filename>.yaml

And paste above script here



```
aws Services Search [Alt+S] N. Virginia Anshul
GNU nano 6.2 assignment2.yaml
---
- name: task for assign2 on slave1
  hosts: slave1
  become: true
  tasks:
    - name: running a script on slave1
      script: assignemnet2.sh
- name: task for assign2 on slave2
  hosts: slave2
  become: true
  tasks:
    - name: running a script on slave2
      script: assignemnet2.sh

Help Write Out Where Is Cut Execute Location Undo Set Mark To Bracket Previous
Exit Read File Replace Paste Justify Go To Line Redo Copy Where Was Next
i-0f933668392767f3f (Ansible Master)
PublicIPs: 3.238.108.248 PrivateIPs: 172.31.11.97
```

Let us syntax check and dry run this yaml file like before.

## For syntax check use command: ansible-playbook <file.yaml>--syntax-check

```
Last login: Sun Feb 26 11:23:45 2023 from 18.206.107.27
ubuntu@ip-172-31-11-97:~$ ls
Playbook
ubuntu@ip-172-31-11-97:~$ cd Playbook
ubuntu@ip-172-31-11-97:~/Playbook$ mkdir Assignment2
ubuntu@ip-172-31-11-97:~/Playbook$ nano assignment2.sh
ubuntu@ip-172-31-11-97:~/Playbook$ nano assignment2.yaml
ubuntu@ip-172-31-11-97:~/Playbook$ ansible-playbook assignment2.yaml --syntax-check

playbook: assignment2.yaml
ubuntu@ip-172-31-11-97:~/Playbook$
```

I-Of933668392767f3f (Ansible Master)  
PublicIPs: 3.238.108.248 PrivateIPs: 172.31.11.97

## For dry run use command:ansible-playbook <file.yaml> --check

```
ubuntu@ip-172-31-11-97:~/Playbook$ ansible-playbook assignment2.yaml --syntax-check

playbook: assignment2.yaml
ubuntu@ip-172-31-11-97:~/Playbook$ ansible-playbook assignment2.yaml --check

PLAY [task for assign2 on slave1] *****
TASK [Gathering Facts] *****
ok: [172.31.55.6]
TASK [running a script on slave1] *****
skipping: [172.31.55.6]
PLAY [task for assign2 on slave2] *****
TASK [Gathering Facts] *****
ok: [172.31.60.154]
TASK [running a script on slave2] *****
skipping: [172.31.60.154]
PLAY RECAP *****
172.31.55.6      : ok=1  changed=0  unreachable=0  failed=0  skipped=1  rescued=0  ignored=0
172.31.60.154   : ok=1  changed=0  unreachable=0  failed=0  skipped=1  rescued=0  ignored=0
ubuntu@ip-172-31-11-97:~/Playbook$
```

I-Of933668392767f3f (Ansible Master)  
PublicIPs: 3.238.108.248 PrivateIPs: 172.31.11.97

Now let us run the playbook to see actual results.

## ansible-playbook <filename.yaml>

```
aws Services Search [Alt+S] N. Virginia Anshul
PLAY RECAP *****
172.31.55.6      : ok=1  changed=0  unreachable=0  failed=0  skipped=1  rescued=0  ignored=0
172.31.60.154   : ok=1  changed=0  unreachable=0  failed=0  skipped=1  rescued=0  ignored=0
ubuntu@ip-172-31-11-97:~/Playbook$ ansible-playbook assignment2.yaml

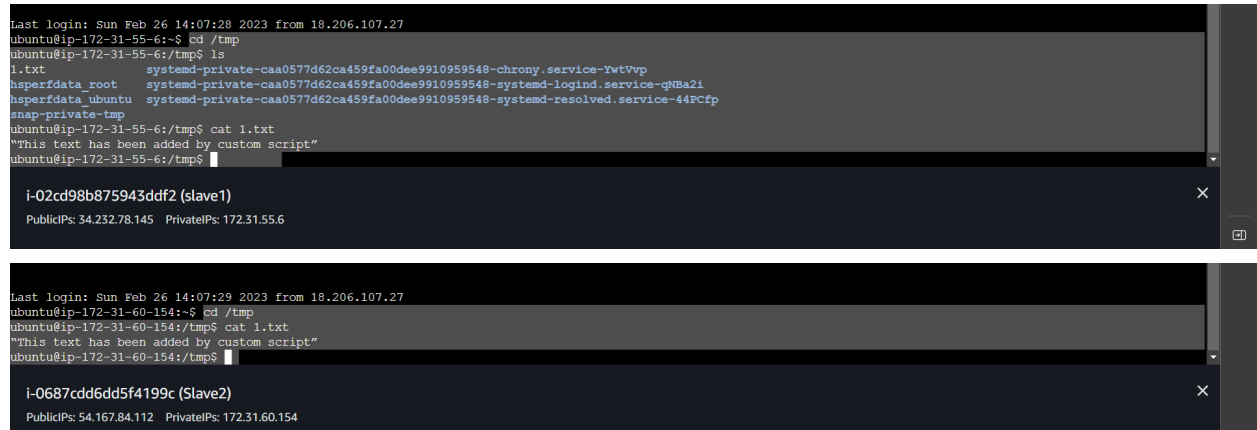
PLAY [task for assign2 on slave1] *****
TASK [Gathering Facts] *****
ok: [172.31.55.6]
TASK [running a script on slave1] *****
changed: [172.31.55.6]
PLAY [task for assign2 on slave2] *****
TASK [Gathering Facts] *****
ok: [172.31.60.154]
TASK [running a script on slave2] *****
changed: [172.31.60.154]
PLAY RECAP *****
172.31.55.6      : ok=2  changed=1  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0
172.31.60.154   : ok=2  changed=1  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0
ubuntu@ip-172-31-11-97:~/Playbook$
```

I-Of933668392767f3f (Ansible Master)  
PublicIPs: 3.238.108.248 PrivateIPs: 172.31.11.97

Now let us see if file with those contents are reflected or not. Do this in both slave servers:

**cd /tmp**

**Cat 1.txt**



```
Last login: Sun Feb 26 14:07:28 2023 from 18.206.107.27
ubuntu@ip-172-31-55-6:~$ cd /tmp
ubuntu@ip-172-31-55-6:/tmp$ ls
1.txt
systemd-private-caa0577d62ca459fa00dee9910959548-chrony.service-YwtVvp
haperfdata_root      systemd-private-caa0577d62ca459fa00dee9910959548-systemd-logind.service-qNBa2i
haperfdata_ubuntu    systemd-private-caa0577d62ca459fa00dee9910959548-systemd-resolved.service-44PCfp
snap-private-tmp
ubuntu@ip-172-31-55-6:/tmp$ cat 1.txt
"This text has been added by custom script"
ubuntu@ip-172-31-55-6:/tmp$

i-02cd98b875943ddf2 (slave1)
PublicIPs: 34.232.78.145  PrivateIPs: 172.31.55.6

Last login: Sun Feb 26 14:07:29 2023 from 18.206.107.27
ubuntu@ip-172-31-60-154:~$ cd /tmp
ubuntu@ip-172-31-60-154:/tmp$ cat 1.txt
"This text has been added by custom script"
ubuntu@ip-172-31-60-154:/tmp$

i-0687cdd6dd5f4199c (Slave2)
PublicIPs: 54.167.84.112  PrivateIPs: 172.31.60.154
```

**Conclusion: We can create files or do any changes in Slave servers by creating and running shell script files with the help of a playbook file from the master server. The changes can be made on n number of servers with help of a single playbook run.**