

Ansible - 4

You have been asked to:

- Use the previous deployment of ansible cluster
- Configure the files with index.html which should be replaced with the original index.html

Now we will create another folder for this task then create a playbook and html file here which will be then replaced by index.html main file in respective engines of respective slave/worker nodes.

mkdir Assignment4

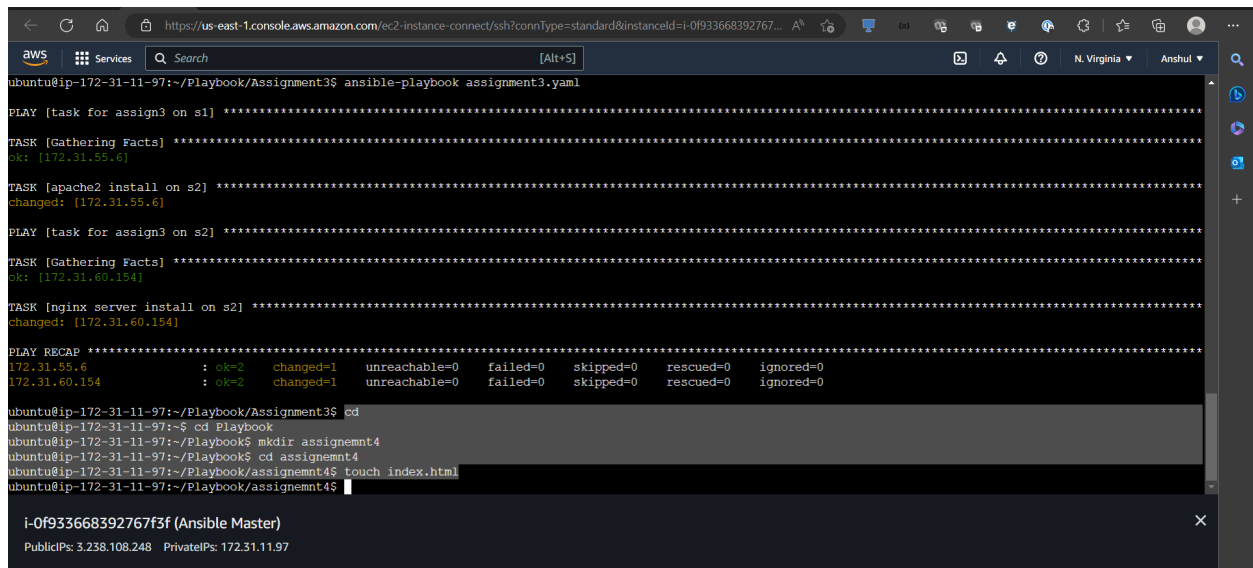
cd assignment4

Touch index.html

mkdir nginx

Touch index.html

nano assignment4.yaml



The screenshot shows an AWS console terminal window with the following content:

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

ubuntu@ip-172-31-11-97:~/Playbook/Assignment3$ ansible-playbook assignment3.yaml

PLAY [task for assign3 on s1] *****
TASK [Gathering Facts] *****
ok: [172.31.55.6]

TASK [apache2 install on s2] *****
changed: [172.31.55.6]

PLAY [task for assign3 on s2] *****
TASK [Gathering Facts] *****
ok: [172.31.60.154]

TASK [nginx server install on s2] *****
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/Assignment3$ cd
ubuntu@ip-172-31-11-97:~$ cd Playbook
ubuntu@ip-172-31-11-97:~/Playbook$ mkdir assignment4
ubuntu@ip-172-31-11-97:~/Playbook$ cd assignment4
ubuntu@ip-172-31-11-97:~/Playbook/assignment4$ touch index.html
ubuntu@ip-172-31-11-97:~/Playbook/assignment4$

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

we will be using this yaml file:

- name: task for assign4 on w1
 - hosts: slave1
 - become: true
 - tasks:
 - name: apache2 install w1
 - apt: name=apache2 update_cache=yes state=latest
 - name: copy the index.html from the home dir == /home/ubuntu/assign4/index.html
 - copy: src=/home/ubuntu/assign4/index.html dest=/var/www/html/index.html
- name: task for assign4 on w2
 - hosts: slave2
 - become: true
 - tasks:
 - name: nginx install w2

apt: name=nginx update_cache=yes state=latest

- name: copy the index.html from the home dir == /home/ubuntu/assign4/nginx/index.html

copy: src=/home/ubuntu/assign4/nginx/index.html dest=/var/www/html/index.html

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

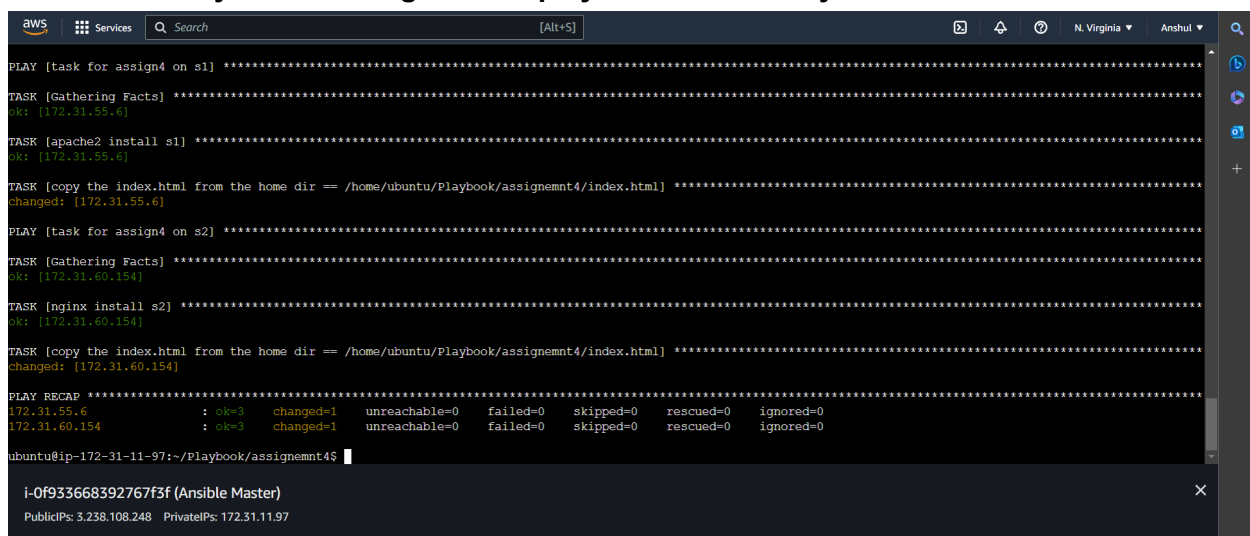
For the task on "slave1", the script installs the Apache web server using the "apt" module, and then copies an index.html file from "/home/ubuntu/assign4/index.html" to "/var/www/html/index.html" using the "copy" module.

For the task on "slave2", the script installs the Nginx web server using the "apt" module, and then copies an index.html file from "/home/ubuntu/assign4/nginx/index.html" to "/var/www/html/index.html" using the "copy" module.



```
--
- name: task for assign4 on s1
  hosts: slave1
  become: true
  tasks:
    - name: apache2 install s1
      apt: name=apache2 update_cache=yes state=latest
    - name: copy the index.html from the home dir == /home/ubuntu/assignment4/index.html
      copy: src=/home/ubuntu/assignment4/index.html dest=/var/www/html/index.html
- name: task for assign4 on s2
  hosts: slave2
  become: true
  tasks:
    - name: nginx install s2
      apt: name=nginx update_cache=yes state=latest
    - name: copy the index.html from the home dir == /home/ubuntu/assignment4/nginx/index.html
      copy: src=/home/ubuntu/assignment4/nginx/index.html dest=/var/www/html/index.html
```

Let us run this yaml file using:ansible-playbook <filename.yaml>



```
PLAY [task for assign4 on s1] *****
TASK [Gathering Facts] *****
ok: [172.31.55.6]

TASK [apache2 install s1] *****
ok: [172.31.55.6]

TASK [copy the index.html from the home dir == /home/ubuntu/Playbook/assignemnt4/index.html] *****
changed: [172.31.55.6]

PLAY [task for assign4 on s2] *****
TASK [Gathering Facts] *****
ok: [172.31.60.154]

TASK [nginx install s2] *****
ok: [172.31.60.154]

TASK [copy the index.html from the home dir == /home/ubuntu/Playbook/assignemnt4/index.html] *****
changed: [172.31.60.154]

PLAY RECAP *****
172.31.55.6      : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.60.154   : ok=3    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

ubuntu@ip-172-31-11-97:~/Playbook/assignemnt4$
```

Let us see on the respective workers public ip if index.html file changes has been reflected or not.



Conclusion: Any html page can be launched in any engine in n number of worker nodes at the same time using one master node and proper Playbook using Ansible.