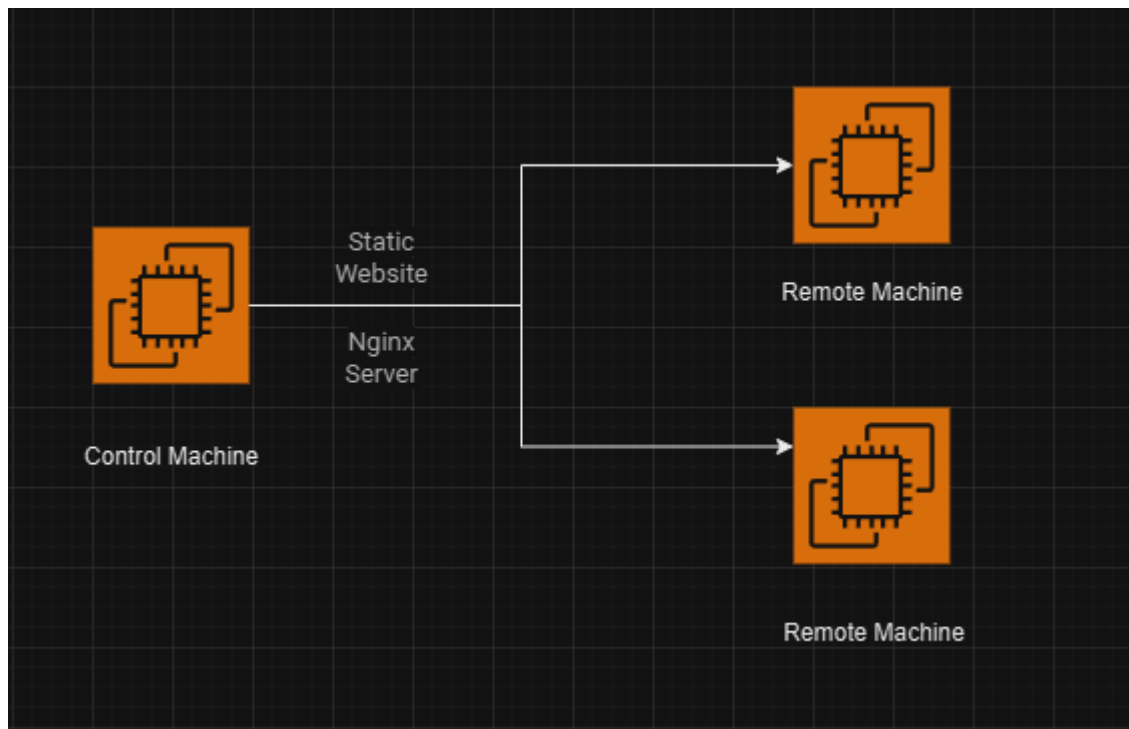


Ansible Project

Introduction :

In this project I automated tasks in EC2 instances such as basic confirmation (Installing common patches and required software) using ansible playbooks. So this feature will help our productivity and time management.

Diagram :



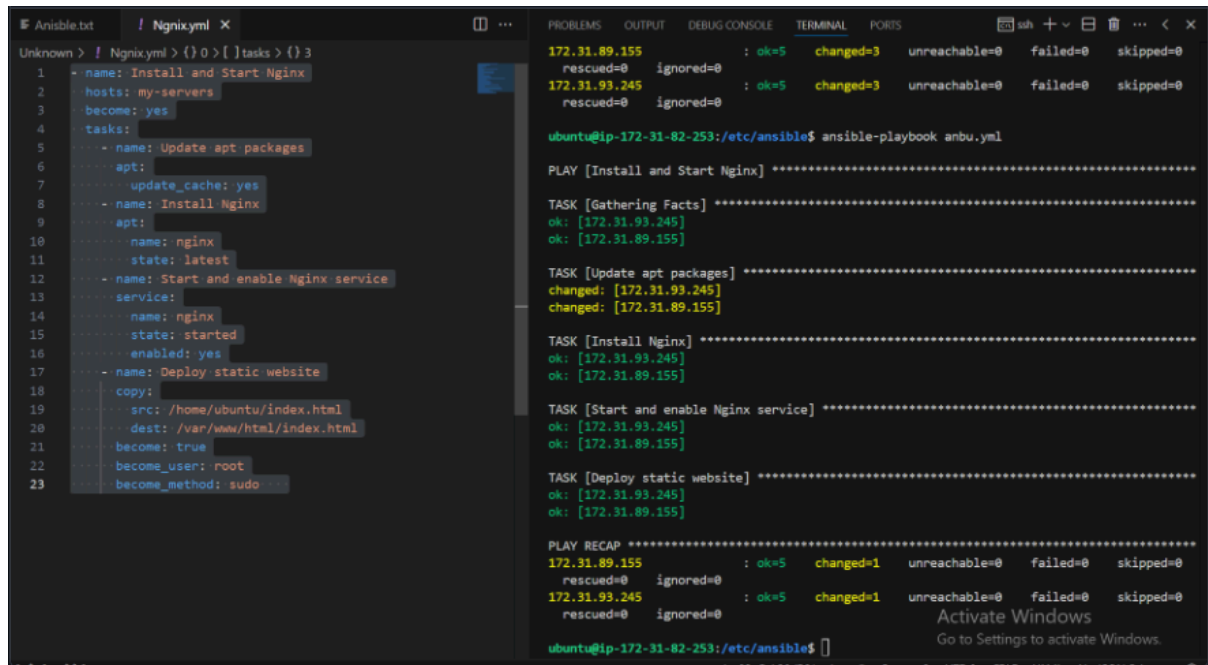
Launching Instances :

I have launched three instances as mentioned in the below screenshot for this project.

Instances (3) Info							
Find Instance by attribute or tag (case-sensitive)							
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Control Machine	i-022135173fec9ee1f	Running	t2.micro	2/2 checks passed...	View alarms	us-east-1b
<input type="checkbox"/>	Remote Machine	i-0462834e9f92222aa	Running	t2.micro	2/2 checks passed...	View alarms	us-east-1b
<input type="checkbox"/>	Remote Machine	i-007aa5e538dfb9487	Running	t2.micro	2/2 checks passed...	View alarms	us-east-1b

Installing Ansible playbook in control machine and YAML code:

I have installed an ansible playbook in the control machine and configured the remote machine's IP address in the control machine for automation.



```
Unknown > ! Nginx.yml > {} 0 > {} tasks > {} 3
1  - name: Install and Start Nginx
2    hosts: my-servers
3    become: yes
4    tasks:
5      - name: Update apt packages
6        apt:
7          update_cache: yes
8      - name: Install Nginx
9        apt:
10       name: nginx
11       state: latest
12       name: Start and enable Nginx service
13       service:
14         name: nginx
15         state: started
16         enabled: yes
17       name: Deploy static website
18       copy:
19         src: /home/ubuntu/index.html
20         dest: /var/www/html/index.html
21       become: true
22       become_user: root
23       become_method: sudo

172.31.89.155 : ok=5 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
172.31.93.245 : ok=5 changed=3 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

ubuntu@ip-172-31-82-253:/etc/ansible$ ansible-playbook anbu.yml

PLAY [Install and Start Nginx] *****

TASK [Gathering Facts] *****
ok: [172.31.93.245]
ok: [172.31.89.155]

TASK [Update apt packages] *****
changed: [172.31.93.245]
changed: [172.31.89.155]

TASK [Install Nginx] *****
ok: [172.31.93.245]
ok: [172.31.89.155]

TASK [Start and enable Nginx service] *****
ok: [172.31.93.245]
ok: [172.31.89.155]

TASK [Deploy static website] *****
ok: [172.31.93.245]
ok: [172.31.89.155]

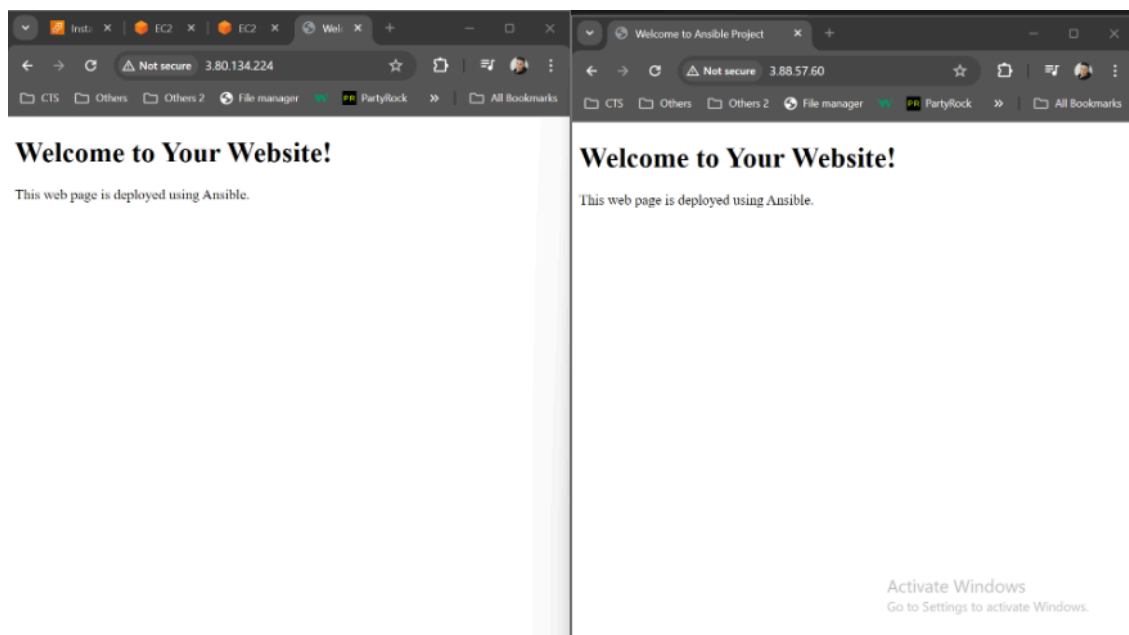
PLAY RECAP *****
172.31.89.155 : ok=5 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
172.31.93.245 : ok=5 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

Activate Windows
Go to Settings to activate Windows.

ubuntu@ip-172-31-82-253:/etc/ansible$
```

Automated :

Once done, we could see that our server successfully installed and applied to a remote machine.



Thank you ! Happy Learning !