Automating NGINX Installation on RHEL using Ansible In AWS EC2!

🔧 In this post, I'll walk you through how I automated the installation of NGINX on a Red Hat Enterprise Linux (RHEL) server using Ansible.

💻 Amazon EC2 (Elastic Compute Cloud) allows you to create virtual servers on the cloud. To launch an instance:

Step1: Navigate to EC2 in the AWS Management Console.:

Step2: Click on Launch Instance.:

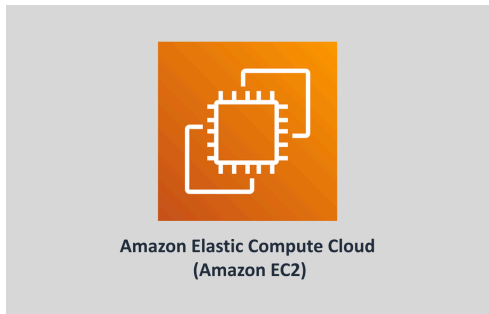
Step3: Choose RHEL its your choice to choose AMI in this case i used RHEL. You can use Amazon linux ,Ubuntu, any one you want but make sure the commands are diffrent for different OS

Step4: Select the t2.micro instance type .

Step5: Configure storage and security groups (allow port 22 for SSH and port 80 for HTTP).

Step6: Launch the instance .

Step7: Connect instance, i used MOBAEXTREAM .



Writing the Ansible Playbook

Step1: After connecing the instance install ansible in both Master and Slave nodes. using “sudo dnf install ansible -y command”

Step2: create a file called “inventory.ini” and put your slave private ip in the file and give naem for them as group i given as WEB .

Step3: Create a file named as nginx.yaml and write play book as mentioned below .

```yaml
---
- name: installing nginx
  hosts: web
  become: 'yes'
  tasks:
    - name: installing nginx
      ansible.builtin.dnf: # this command is used to install packages on RHEL
        name: nginx
        state: latest
    - name: start and enable nginx
      ansible.builtin.service:
        name: nginx
        state: started
        enabled: 'yes'
```

Executing the Ansible Playbook

Step1: After creating play book we need to execute for executing play book use command mentioned below

Step2: ansible-playbook -i inventory.ini -e ansible_user=ec2-user -e ansible-password=DevOps321 nginx.yaml “- this command works on RHEL OS only”

You can see output as give below after execution

```
54.162.193.1 | 172.31.36.113 | t2.micro | null
[ ec2-user@ip-172-31-36-113 ~ ]$ ansible-playbook -i inventory.ini -e ansible_user=ec2-user -e ansible_password=DevOps321 ng

PLAY [installing nginx] ********************************************************************************************

TASK [Gathering Facts] *********************************************************************************************
ok: [172.31.46.239]

TASK [installing nginx] ********************************************************************************************
changed: [172.31.46.239]

TASK [start and enable nginx] **************************************************************************************
changed: [172.31.46.239]

PLAY RECAP *********************************************************************************************************
172.31.46.239              : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

OUTPUT

Step1: Copy your slave node public IP address and paste it on you browser you can get output as shown below

You can see output as give below