PARSHVANATH CHARITABLE TRUST'S
A. P. SHAH INSTITUTE OF TECHNOLOGY
Department of Information Technology
(NBA Accredited)

Department of Information Technology

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Subject: DevOps Lab
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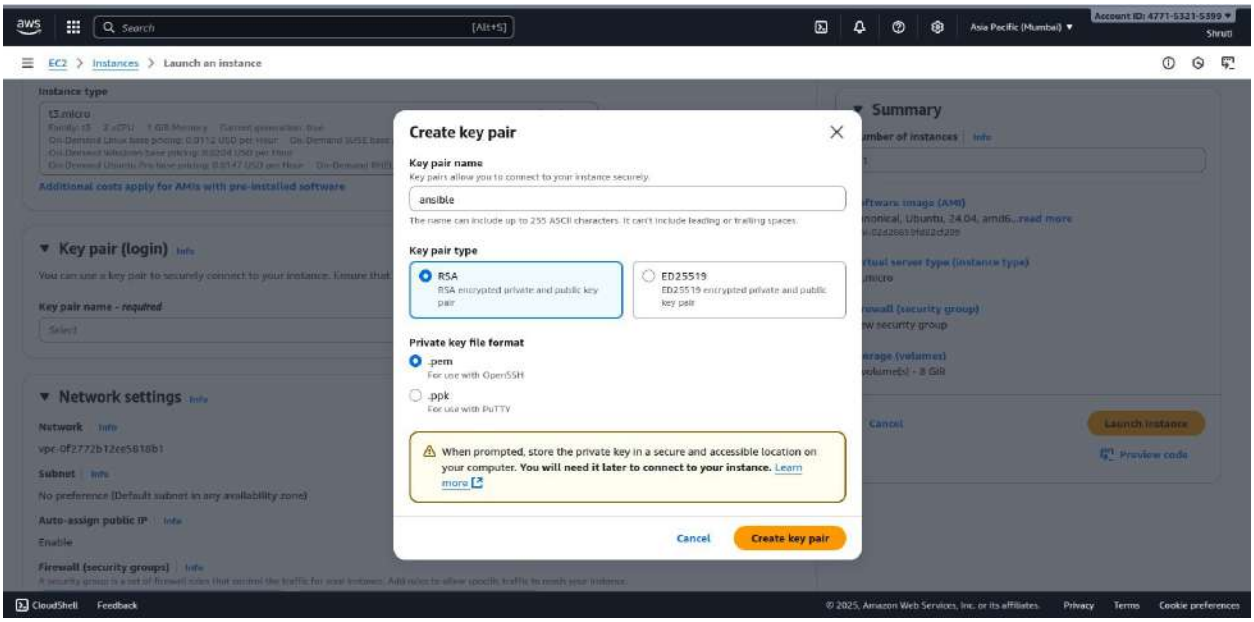
Experiment No. 10

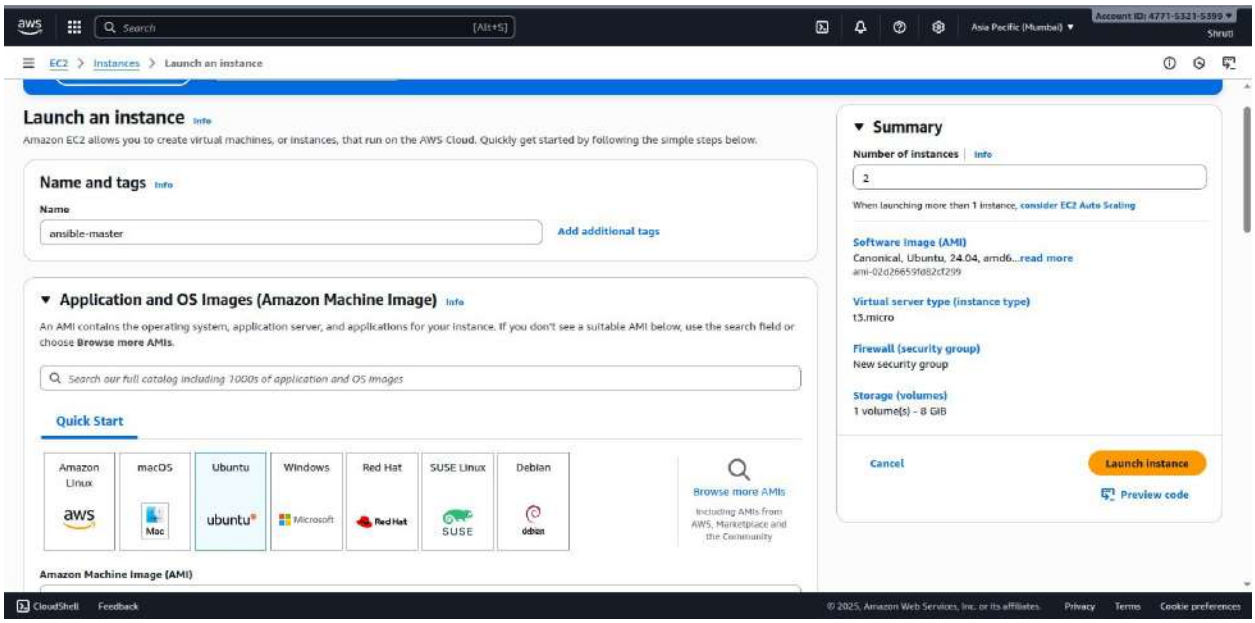
Aim:-Installation of Ansible on top of AWS instance. Configure SSH access to Ansible master/slave and setup ansible host and test the connection.

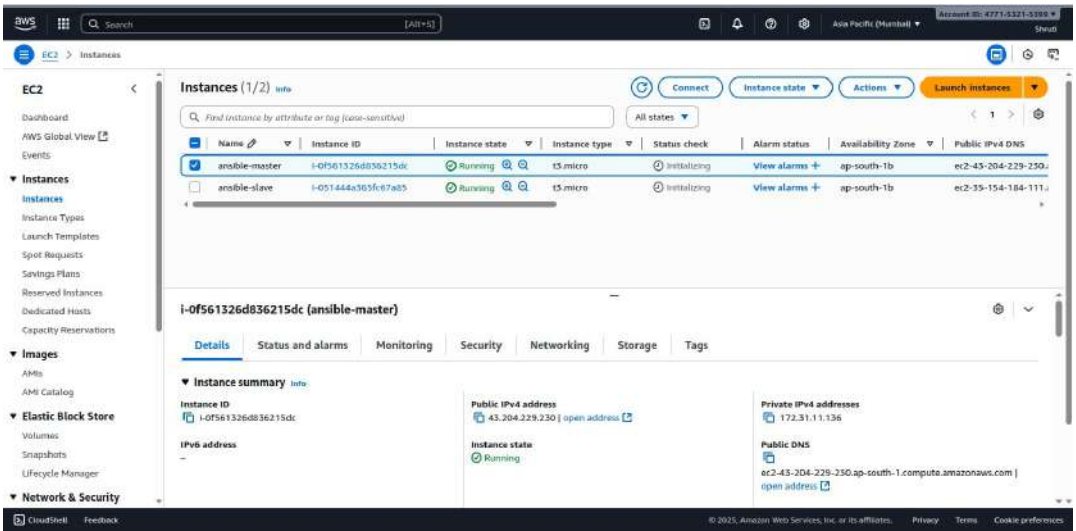
Code/Output with Screenshot:-

Step1:-Connect AWS console

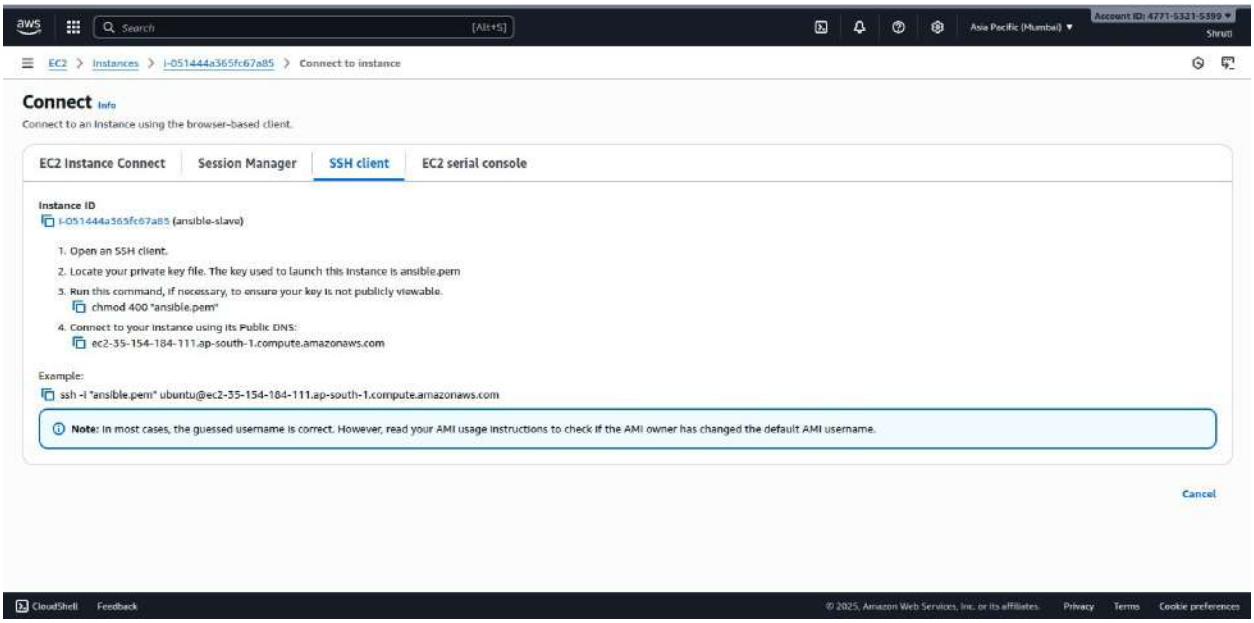
must have t3 micro, ubuntu 24.0.0.Lts, in netwrok settings allow all three http,https and the last option and in right side number of instances must be 2.


Create key pair
Key pair name
Key pairs allow you to connect to your instance securely.
ansible
The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.
Key pair type
RSA
RSA encrypted private and public key pair
ED25519
ED25519 encrypted private and public key pair
Private key file format
.pem
For use with OpenSSH
.ppk
For use with PuTTY
When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more
Cancel
Create key pair
Summary
Key pair (login)
Network settings
Launch instance
Preview code

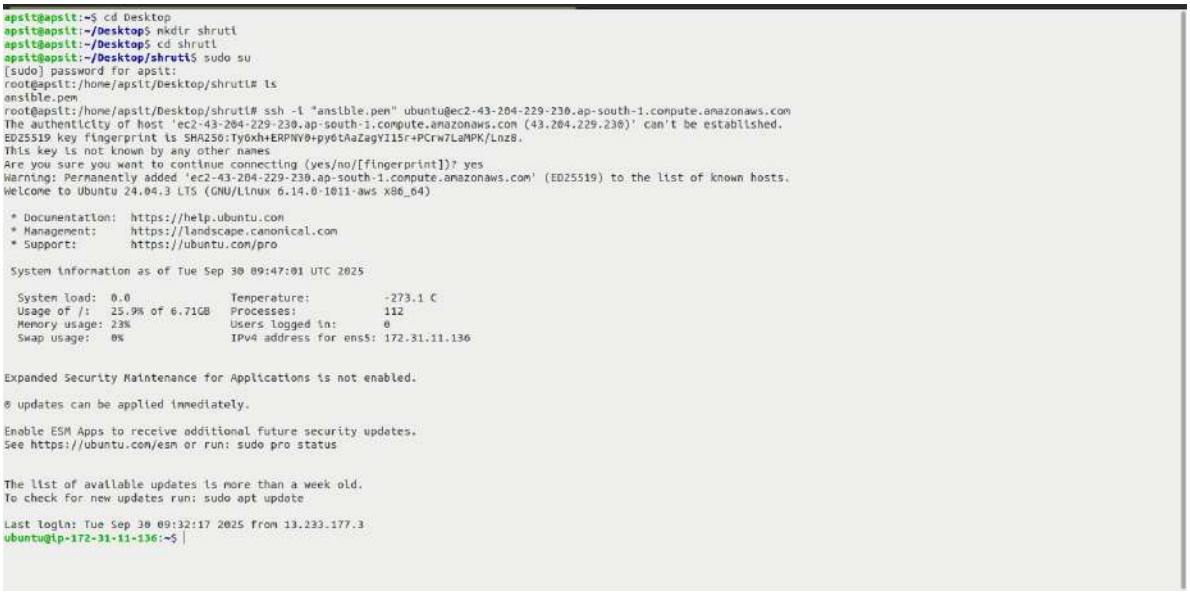

Launch an instance
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags
Name
ansible-master
Add additional tags
Application and OS Images (Amazon Machine Image)
An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose Browse more AMIs.
Search our full catalog including 1000s of application and OS images
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Summary
Number of instances
2
When launching more than 1 instance, consider EC2 Auto Scaling
Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
Virtual server type (instance type)
t3.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Preview code


Instances (1/2)
Connect
Instance state
Actions
Launch instances
ansible-master
ansible-slave
i-0f561326d836215dc (ansible-master)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary
Instance ID
Public IPv4 address
43.204.229.230
Private IPv4 addresses
172.31.11.136
Public DNS
Instance state
Running

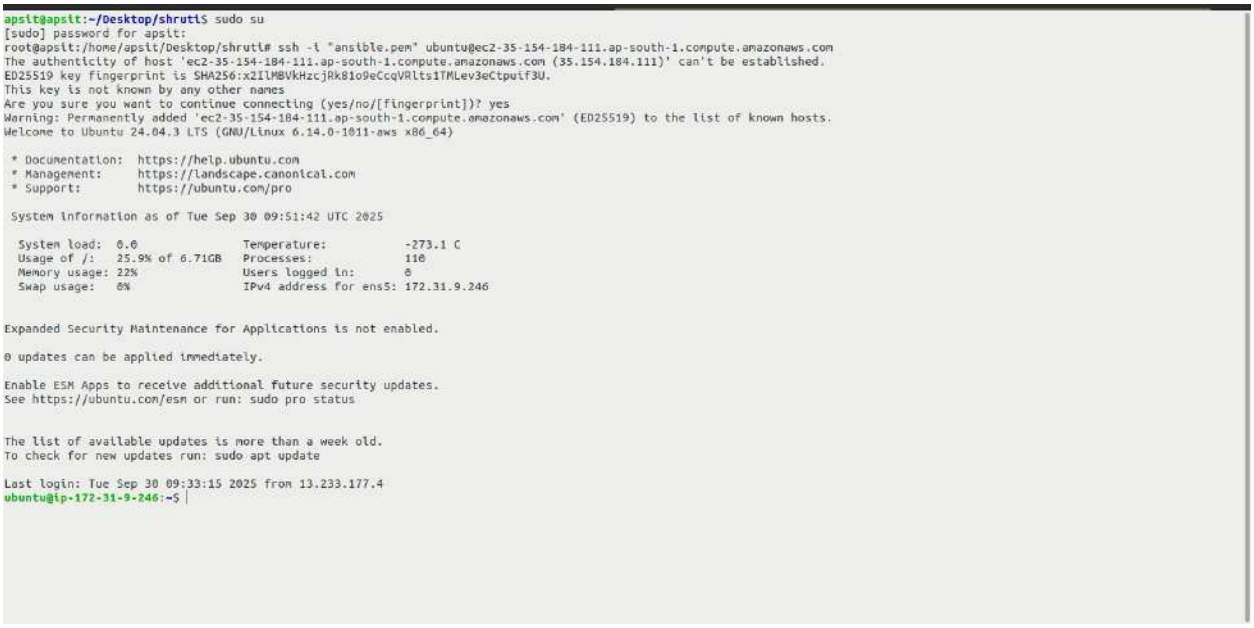
click on master then connect then click on SSH client then copy that client copy thing and then need to make a folder on desktop with your name themn move that ansible.pem to your folder then open that path in terminal and paste that ssh thing copied this made your master follow same for slave.



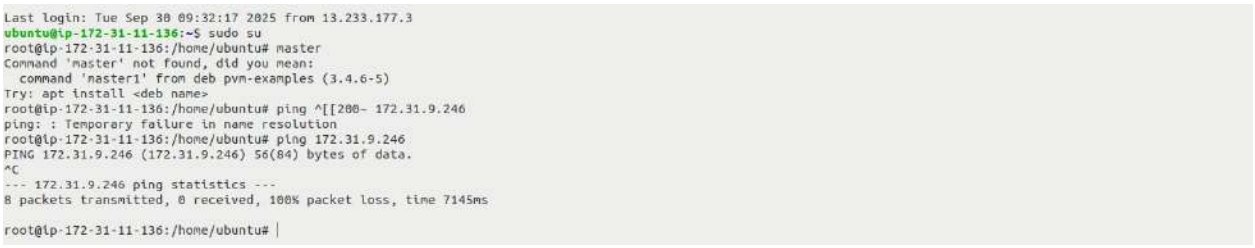
Master machine



Slave machine

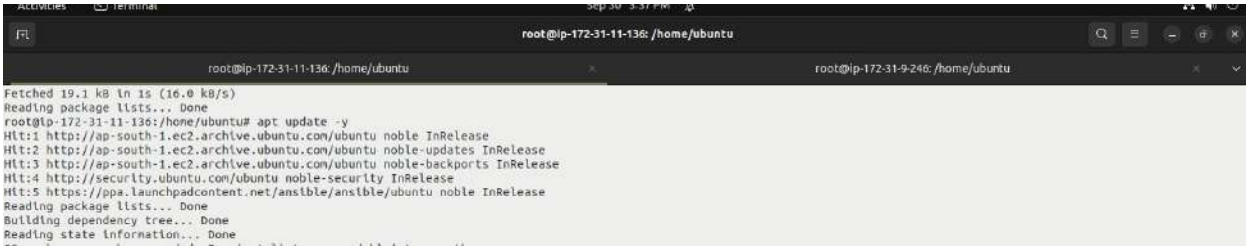


Step 2:-Now ping master and Slave

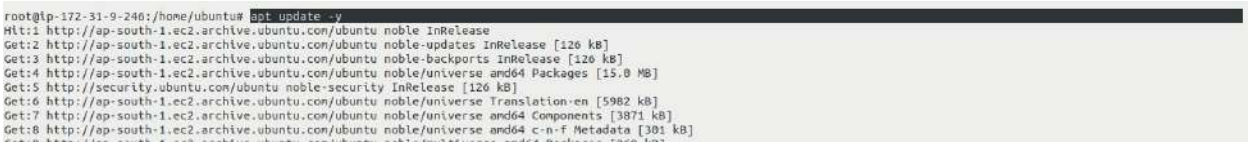


Step4:Ansible Installation

Ansible Master:-



Ansible Slave:-



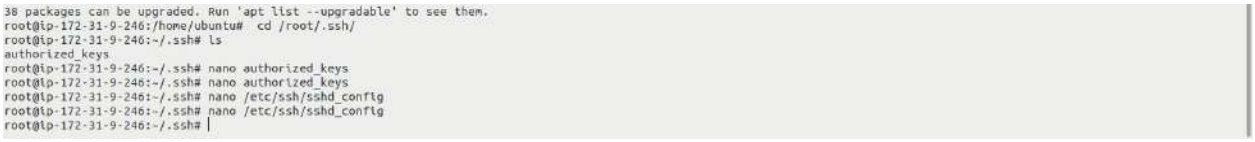
Step5:

Ansible-master:-

STEP6: To create SSH Key: Ansible-master: root@ip-172-31-18-177:/home/ubuntu# ssh-keygen -t rsa

Ansible slave:-

root@ip-172-31-16-10:/home/ubuntu# cd /root/.ssh/ root@ip-172-31-16-10:~/.ssh# ls root@ip-172-31-16-10:~/.ssh# nano authorized_keys



STEP7 :

Ansible-master: 1] root@ip-172-31-18-177:~/.ssh# ansible -m ping all

2] root@ip-172-31-18-177:~/.ssh# ansible client_1 -m setup

3] Ansible-slave:

root@ip-172-31-16-10:~/.ssh# git --version

So let me remove it

root@ip-172-31-16-10:~/.ssh# apt remove

git root@ip-172-31-16-10:~/.ssh# git –

version

Ansible-master: root@ip-172-31-18-177:~/.ssh# ansible client_1 -m apt -a "name=git state=present" –become

Ansible-slave:

root@ip-172-31-16-10:~/.ssh# git --version

How to uninstall package from a ansible-master machine?

In ansible-slave machine : root@ip-172-31-16-10:~/.ssh# nano test.txt

Conclusion:-

In the experiment, we successfully installed Ansible on top of AWS Instance. Also,configured SSH access to Ansible slave and setup ansible host and tested connection.