EC2 (Elastic Compute Cloud)

- ## Make short notes on :-

- What is cloud ?

   Ans:- Cloud is a service provided by various service provider. Cloud follows pay as you go model.

- How many cloud service providers are there?

 Ans:-   AWS
           Azure
            Sales force .etc

- What is Region

 Ans:- In area enclosing two or more than two datacenter is called region.
      Every region is provide with a default network know as a default VPC.

- What is Zone

 Ans:- It is logical location of a data center.

- What is Key Pair

 Ans:- Its combination of public and private key which used to generate password.

         Pem- window

         Ppk- linux

- What is Security Group. Explain Inbound and Outbound rules.

Ans:- It acts as a firewall . it allows protocol and port numbers.

RDP - Window

SSH - Linux

Inbound :- Inbound traffic originates from outside the network

Outbound :- while outbound traffic originates inside the network..

. Create a windows instance with volume less than 30 GB.

EC2 > Instances > Launch an instance

⊗ **Instance launch failed**
Volume of size 28GB is smaller than snapshot 'snap-0656dce7eb222831f', expect size >= 30GB

▼ Launch log

Initializing requests	⊘ Succeeded
Creating security groups	⊘ Succeeded
Creating security group rules	⊘ Succeeded
Launch initiation	⊗ Failed

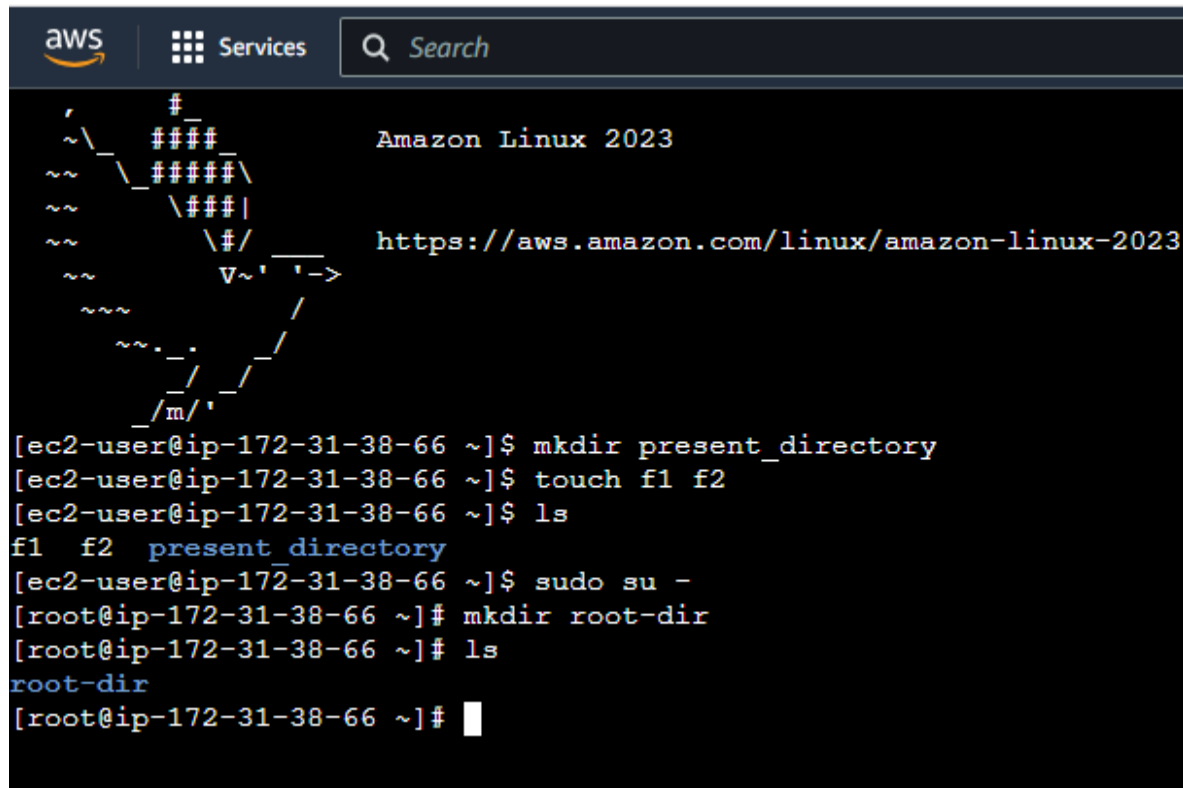Cancel   Edit instance config   Retry failed tasks

- Create an Amazon Linux instance :-

    1. Create a directory as normal user
    2. Create a directory as root user

1. Create a directory as normal user :-

2. Create a directory as root user :-

- Create one ec2 instance with two volumes :-

1. One volume with delete on termination enabled

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

⊘ Successfully attached volume vol-0acf6472c0810aa1c to instance i-0522769faa287e71d.

Volumes (2) Info

	Name ▽	Volume ID ▽	Type ▽	Size ▽	IOPS ▽
☐	root-vol	vol-04968482c29139022	gp2	30 GiB	100
☐	vol-1	vol-0acf6472c0810aa1c	gp2	10 GiB	100

=

nstance: i-0522769faa287e71d (my-server)

Filter block devices

B)	Attachment status	Attachment time	Encrypted	KMS key ID
	⊘ Attached	2023/08/29 14:55 GMT+5:30	No	–
	⊘ Attached	2023/08/29 15:00 GMT+5:30	No	–

Recent root volume replacement tasks

2. One volume with delete on termination disabled.

- Create a server with custom AMI where the base server is having windows OS and a website hosted on it.

- Create a server with a custom AMI where the base server is having Linux OS and a website hosted on it.

- Add an extra volume to the linux instance.

- Replace root volume of a server with the volume created from snapshot of other server.

2 Dashboard

2 Global View

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Instances (1/2) Info

Q Find instance by attribute or tag (case-sensitive)

▬	Name ▽	Instance ID	Instance state ▽	
☐	base-server	i-090c90812102ae60f	⊝ Terminated ⊕ ⊖	
☑	new-server	i-0d1aeb7ad405da28b	⊘ Running ⊕ ⊖	

Instance: i-0d1aeb7ad405da28b (new-server)

Volume ID	Device name	Volume size (GiB)	A
vol-0e31bea243f9b983e	/dev/sda1	100	⊘

▼ Recent root volume replacement tasks

Q Filter tasks

Task ID	Task state	Start tin
		No recen