Ec2 Student Notes ::

1. Explain about the laptop and its components

2. Explain about the server and necessity of using it

Difference between host based disk & external hard disk

Internal::

https://www.amazon.in/Dell-T30-Hard-Drive-400-ALEI/dp/B07VG7VW84/ref=sr\_1\_5?crid=1ZSD4XO8BZWM4&dchild=1&keywords=1tb+internal+hard+disk+for+laptop&qid=1592157815&sprefix=1tb+internal%2Caps%2C271&sr=8-5

External::

https://www.amazon.in/Lenovo-F309-USB3-0-External-Hard/dp/B00UJCZ9K0/ref=sr\_1\_4?crid=23WAUDAVW9BIF&dchild=1&keywords=1tb+external+hard+disk&qid=1592157850&sprefix=1tb+external+hards%2Caps%2C288&sr=8-4

3. Types of Instances

reserved

spot

on demand

dedicated

4. Explain about the Availability zones

5. Start Creating Ec2 & explain in detail about every stage

Type of instances (slide)

https://aws.amazon.com/ec2/instance-types/

Root Volume/disk details

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/InstanceStorage.html

Ebs Volume types

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volume-types.html

Default Users:

https://alestic.com/2014/01/ec2-ssh-username/

Note: Explain about securitygroup

Once instance launched go through the USERDATA(BootStrap) Part & accidental termination options

6. what is EBS & use of EBS & volume-types

Create one volume & attach the volume to one server & other server too ...

Increase the size of the volume & show the increased size

Example:

create two servers in 2 AZ's, create one EBS & show them the difference & drawback

7. EBS snapshots & importance of snapshot & moving disk across AZ's

explain about throughput & Iops

Throughput:

Amount of data can be process per second ie., it might be 30Mbps per GB

IOPS:

Its basically i/p & o/p per second. How many times the spindle can rotate for reading the data from the disk.

(New Topic)

8. Migrating EBS across regions

9. Explain about security group,inbound & outbound rules & importance of security group

Security groups are stateful: This means any changes applied to an incoming rule will be automatically

applied to the outgoing rule. e.g. If you allow an incoming port 80, the outgoing port 80 will be automatically opened.

10. Instance metadata

curl http://169.254.169.254/latest/meta-data

curl http://169.254.169.254/latest/meta-data/public-ipv4

11. AMI & its usage

explain about software installation for 100+ servers

(New Topic)

12. Moving AMI's across regions

Move it to Linux ::

13. Explain about the private interfaces & attaching new interfaces to the instance

similar tell them about the Eip (elastic ip address) allocation & deallocation

14. Instance Roles

Explain about Aws Cli by configuring programmatic access

Use the roles to list the s3 buckets

15. Console logs & explanation

Commands ::

commands to mount a new disk::

lsblk --> Lists all the disks

mkfs.ext4 /dev/xvdf --> helps to format the disk

mkdir /myapp

mount -t ext4 /dev/xvdf /myapp

df -hT /myapp

commands to unmount a disk

cd

umount /myapp

commands to mount and existing disk

mkdir -p /myapp

mount -t ext4 /dev/xvdf /myapp