

AWS Class Notes

EC2 Dashboard

Features associated with EC2 Instances

1. **Security Groups – Required to create an EC2 instance**
 - a. What is the role of a security group?
 - i. By Default, Security Groups will block all access into EC2 instance unless allowed
 - b. How do you create a security?
 - c. How do you associate a SG to an existing Server?
2. **Instance Types**
 - a. What is an instance type and how is it related to an EC2 instance?
 - b. How do you change the instance type for an existing EC2 instance?
3. **EIP (Elastic Internet Protocol)**
 - a. What is an EIP?
 - b. How do you create an EIP?
 - c. How do you associate it to an EC2 instance?
4. **Snapshots**
 - a.
5. **AMI (Amazon Machine Image)**
 - a. What is an AMI
 - b. How to create a custom AMI from an existing EC2 instance
 - c. How to Copy an AMI from one region to another
6. **EBS (Elastic Block Storage)**
 - a. This is a storage volume
 - b. The main storage within our EC2 instance
 - i. Required for storing data
 - ii. Required for installing software

1. Snapshots

- a. How do we backup our EC2 instances
 - i. The way to take backup of our EC2 instance/EBS Volumes
 - ii. A Snapshots is a recovery plan for an EC2 instance to restore in the event of a disaster.
- b. How do you create a snapshot?
 - i. EBS volume
 - ii. EC2 instance
- c. How do we copy a snapshot from one region to another?
- d. How do you create an EBS volume from a snapshot?
- e. How do we create an AMI from a snapshot?

2. Backup in AWS

- a. **RTO – Recovery Time Objective**
 - i. How much time can a server be offline/down?
 - ii. What is the downtime for a particular server/server?

- b. **RPO** – Recovery Point Object
 - i. How much data can be lost for an EC2 instance in the even of a disaster?
 - ii. The specified time indicated by app team or respective development team will match the criterial for the backup plan. E.g Daily backup or Monthly backup
- 3. **AMI – Amazon Machine Image**
 - a. How do you create an AMI from an EC2 instance?
 - b. How do we launch/create an EC2 instance from a custom AMI?
 - i. By launching from AMI
 - ii. By selecting “My AMI”
- 4. **Lifecycle Manager**
 - a. Automate the backup of EC2 instances or EBS volumes
 - i. Assigning custom tags to these resources and using the tags are backup source.

Homework:

How can you copy a snapshot from one AWS account to another?

1. Share with my account number 1727-7514-0033