**WHAT IS EC2?**

Elastic compute cloud is a webservice that provides security and resizable compute capacity in the cloud which represents a physical server to deploy the applications.

**STEPS TO CREATE EC2 INSTANCE**

1. **AMI:**

* Amazon machine image contains the software configuration (OS, Applications servers, and Apps)
* Each AMI is different from one region to another.
* We have to use only free tier AMI’s for practice.

1. **INSTANCE TYPE**

* Here we need to select instance type for free tier, we can use only T2 Micro (1 CPU and 1GB) AND T2 Nano (1 CPU and 0.5 GB).
* Total instance families 64 available.

1. **CONFIGURE INSTANCE**

* Here you need to configure all your instance details like no. of instances, subnets, VPC, IAM role, Tenancy, and all other stuff.

1. **ADD STORAGE**

* Here you can add your data that is elastic block storage which is up to 8 GB for free and extend up to 30GB.

1. **ADD TAGS**

* You can have name tags here.

1. **SECURITY GROUPS**

* It acts as firewall and provide security to stop unwanted access.
* These are region and network specific
* Inbound and outbound rules
* Provides security at the protocol and port level access
* It acts as a firewall and deals with the traffic (HTTP &HTTPS)
* S.G in one region can’t be seen on another region.
* Multiple SG’S can be attached to one EC2 instance

1. **REVIEW**

* You can check all the details that you have given to make EC2 instance.

**Q. what are the types of virtualizations do we have on AWS platform?**

HVM (under AMI) & para virtual (select community AMI’S you can see there) and also para virtualization on HVM.