

LAUNCHING OF THE INSTANCE AND THE TEMPLATE



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INDEX

1. EC2 Launching options and Launch process	02
2. Steps for launching the Instance	05
3. What is a template, and what are the steps for launching the template?	07

> LAUNCHING OF EC2 AND IT'S LAUNCH OPTION:-

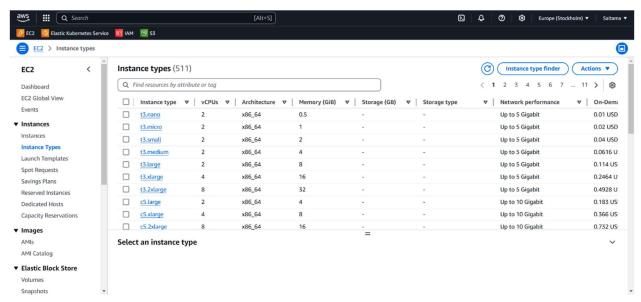
• What is the EC2 instance?

Amazon EC2 (Elastic Compute Cloud) is a web service that provides resizable and scalable computing capacity in the cloud. It allows you to launch virtual servers (instances) and run applications without investing in physical hardware.

What are the types of Instances?

There are 6 different types of instances, each of which you can choose according to your requirements. Each type of instance has a different hardware configuration. The following are some of the different types of Instances.

- **General purpose**:- This provides balanced computing, memory, and storage.
- Compute optimized:- This provides more computing compared to memory and storage.
- **Memory optimized:** This focuses on memory rather than storage and the compute.
- **Storage optimized:** This has more storage than compute and memory.
- Accelerated optimized:-This is a type of instance that provides more GPU or accelerated hardware.
- **High-performance Computing**:- These are types that are used for an application that requires low latency and high performance.



1.1 Types of Instances

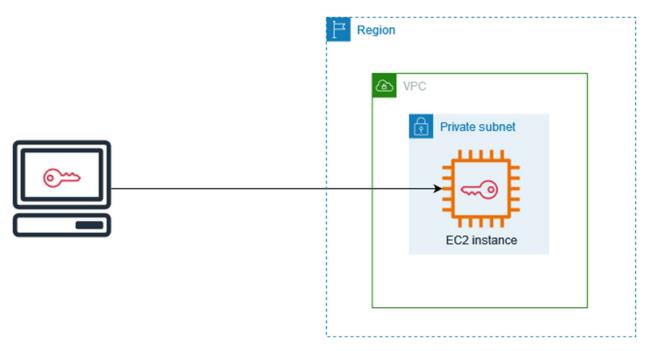
• What is the AMI?

An AMI stands for 'Amazon Machine Image' there are several Images available on it each image has some predefined configurations, and with the packages installed, you can even create your own images, which are called the **creation of templates** In the AMI option is four tabs

- Quick start,
- Created Images: this contains the images created by us.
- AWS marketplace: contains different images and has some predefined configurations,
- Community: this contains the images that are created by the community and are updated regularly.

• What is a Key pair?

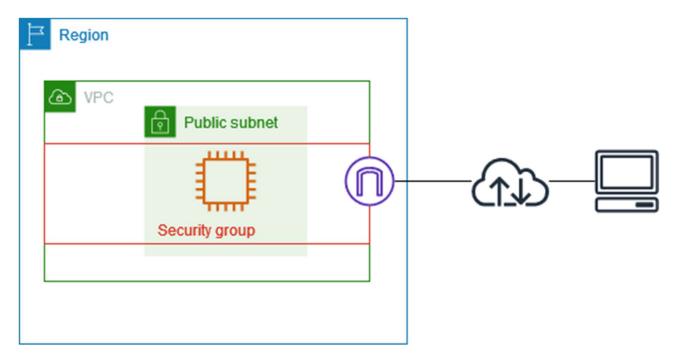
A Key Pair in AWS is a combination of a public key and a private key used for securely accessing EC2 instances.



1.2 Structure of the Key Pair

• What is a security group?

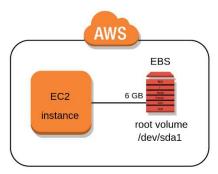
The security group is nothing but it is like a firewall that allows or decides which type of traffic is allowed to take the information or access the server. The traffic that is approaching the server is called the **Inbound traffic** and the Traffic that is coming out of the instance/server is called the **outbound rule**.



1.2 Structure of the Security Group

• What is the EBS volume for?

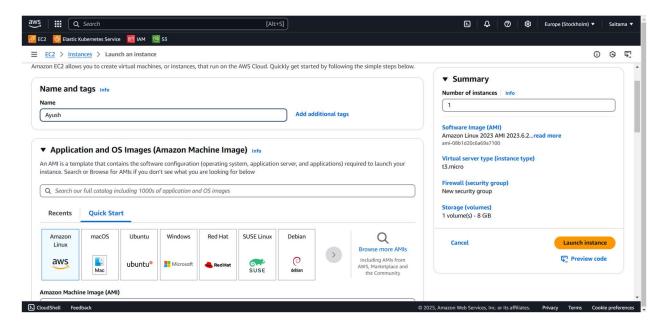
Amazon EBS is the block storage, which is an Elastic Block Store that is attached to the instance



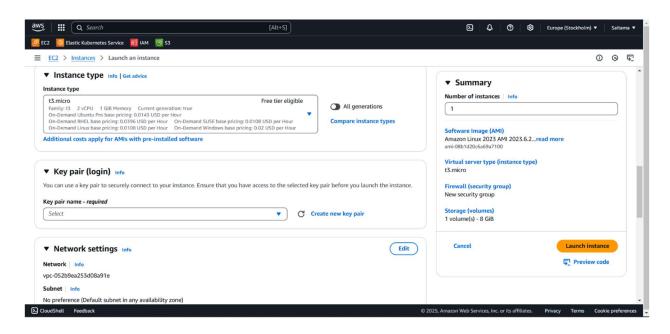
for the booting purpose and storage purpose.

> STEPS FOR LAUNCHING THE INSTANCE:-

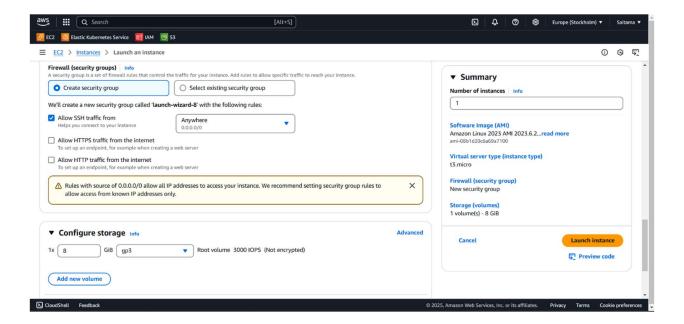
- 1. Enter the Name for Instance
- 2. Select AMI



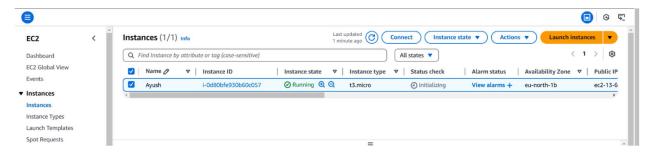
- 3. Select the type of the instance.
- 4. Select the **Key pair.**



- 5. Select / Edit the security group.
- 6. Check the **volume** attached.
- 7. Launch Instance.



7. Now select the instance and connect.



8. After the establishment of connection now you can hit the command.



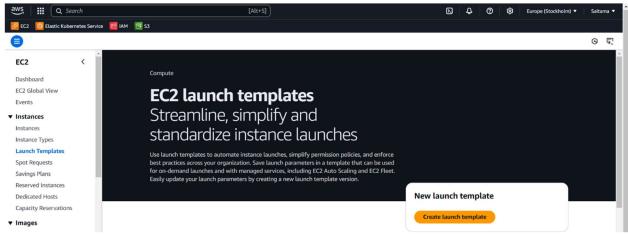
> WHAT IS A TEMPLATE AND STEPS FOR LAUNCHING IT:-

• What is a template?

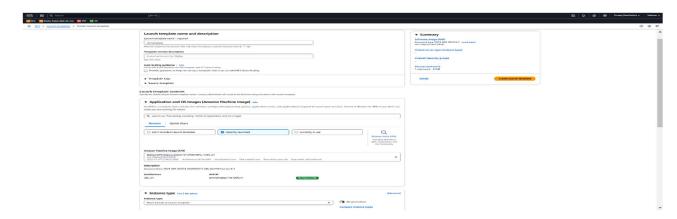
A template is nothing but the exit replica of the instance at the time of creating the image with the help of the template, we can create an exact copy of the instance with the same configurations and it can be even used for the backup.

• STEPS FOR LAUNCHING THE TEMPLATE:-

- 1. Click on the launch template
- 2. Create a launch template
- 3. Enter the name of the Template



- 4. Select the configuration and key if needed
- 5. Create a template



...*END*