



Discipline

Ec2-Classic

CS5002

Assignment-14

Sheikh Muhammed Tadeeb (AU19B1014)

❖ **Problem Statement:**

Explain what is Ec2-Classic in network and why we should use or do not use it. Please provide some examples of it.

❖ **Solution:**

➤ **Brief:**

With EC2-Classic, our instances run in a single, flat network that we share with other customers. With Amazon VPC, your instances run in a virtual private cloud (VPC) that's logically isolated to our AWS account.

The EC2-Classic platform was introduced in the original release of Amazon EC2. If we created our AWS account after 2013-12-04, it does not support EC2-Classic, so we must launch our Amazon EC2 instances in a VPC.

➤ **Why to use Ec2-Classic?**

The following are some of the key attributes, why to use EC2-Classic network:

1. Public IP address - Our instance receives a public IP address.
2. Private IP - Our instance receives a private IP address from the EC2-Classic, default VPC range each time it's started.
3. Multiple IP addresses - We can assign a single IP address to our instance.
4. Elastic IP address - An EIP is disassociated from our instance when you stop it.
5. DNS hostnames - DNS hostnames are enabled by default.
6. Security group - A security group can reference security groups that belong to other AWS accounts. We can create up to 500 security groups in each region.

7. Security group association - You can assign an unlimited number of security groups to an instance when you launch it.
8. Security group rules - You can add rules for inbound traffic only and can add up to 100 rules to a security group.
9. Tenancy - Our instance runs on shared hardware.

➤ **Why not to use?**

The following are the reason why not to use a Ec2-classic network:

1. Multiple IP addresses are not supported.
2. We can't change the security groups of your running instance. we can either modify the rules of the assigned security groups, or replace the instance with a new one.
3. An Elastic IP is disassociated from your instance when you stop it. (Hourly charges apply on disassociated or stopped instance)
4. IPv6 addressing is not supported. we cannot assign IPv6 addresses to your instances.
5. You can add rules for inbound traffic only.

➤ **Examples of Instances that supports EC2-classic:**

The following are the examples under each criterion:

1. General purpose: M1, M3, and T1
2. Compute optimized: C1, C3, and CC2
3. Memory optimized: CR1, M2, and R3
4. Storage optimized: D2, HS1, and I2
5. Accelerated computing: G2