Lab 1 bootcamp - Sonu Subedi

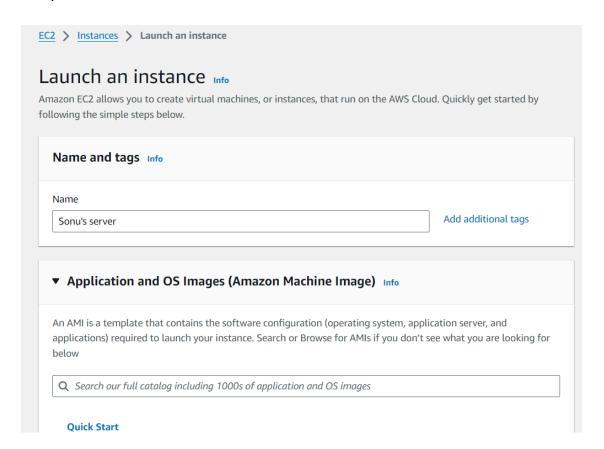
1. EC2 Basics Lab

- Objective: To understand the process of setting up and managing an Amazon EC2 instance.
- Approach: Students will start by launching a new EC2 instance, selecting an
 appropriate instance type and configuring the instance details. They will then
 create and configure a new Security Group, and allocate an Elastic IP address to
 the instance. The lab will also include connecting to the instance via SSH.
- Goal: By the end of this lab, students should be able to launch and manage an EC2 instance, understand instance types, security groups, and IP addressing in AWS.

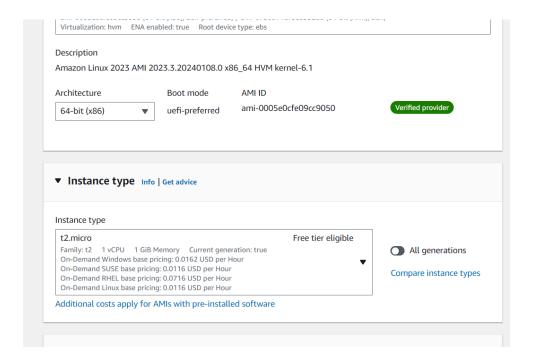
Steps involved:

Step 1:

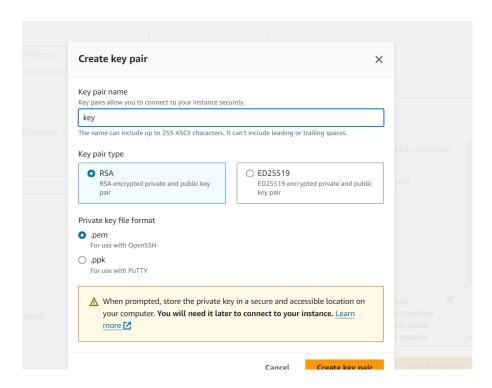
1) Search EC2 > Instances then launch an instance. Give the name of instance



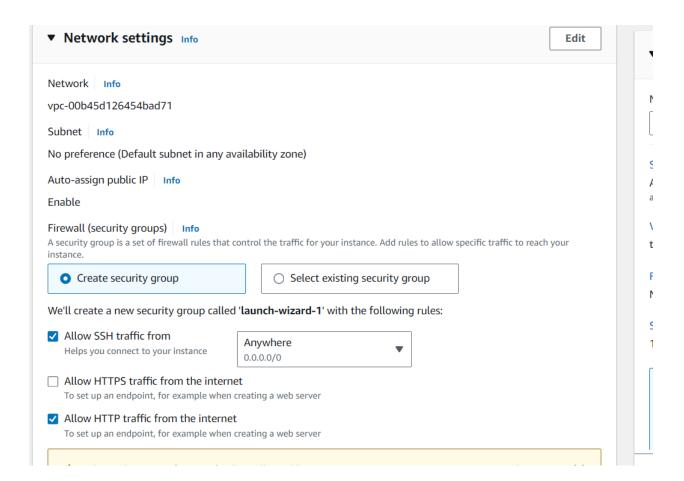
2) Configure the instance details. Select instance type as t2.micro



3) Create a new key pair

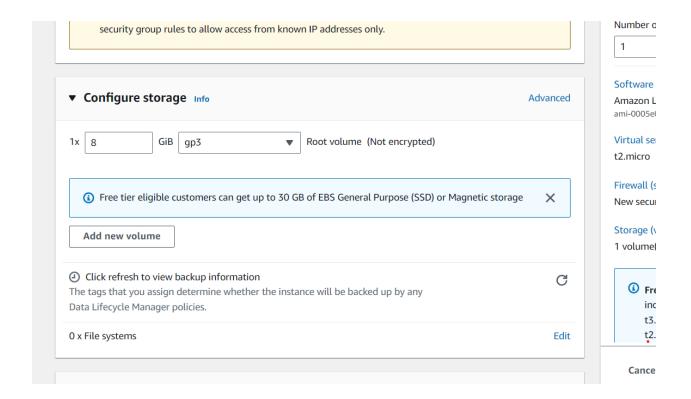


4) Create and configure a new Security Group. Tick on allow HTTP traffic and SSH traffic.

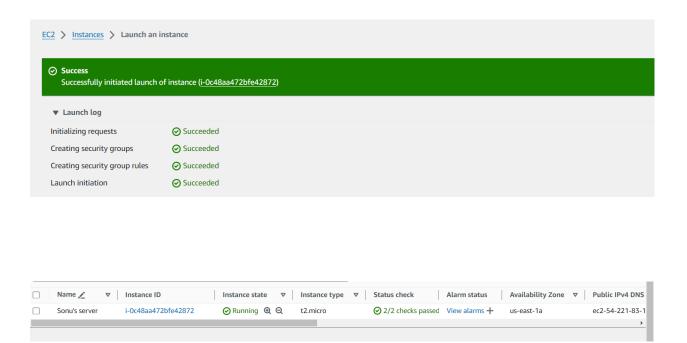


5)

Configure storage:

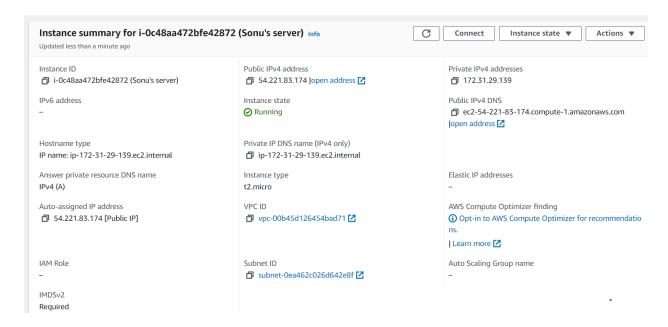


New instance has been launched.

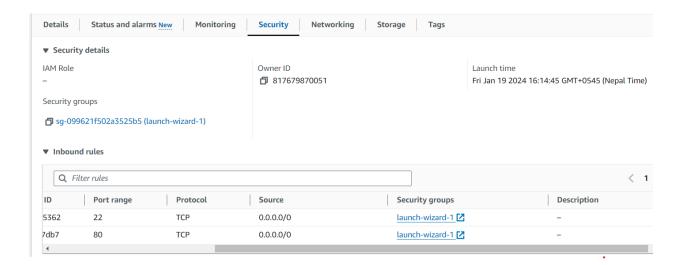


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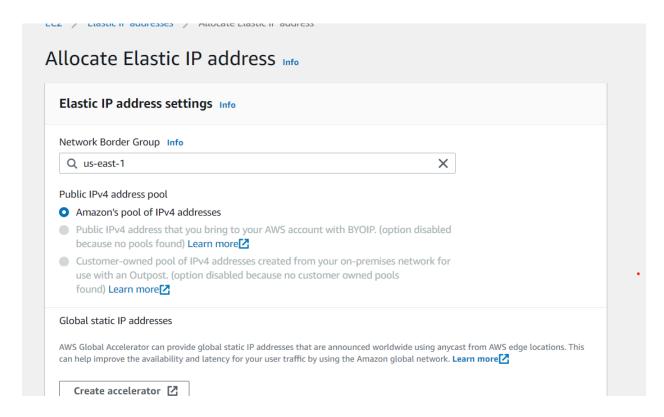
Click on instance Id and see its various properties.

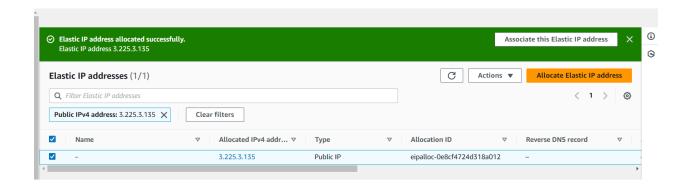


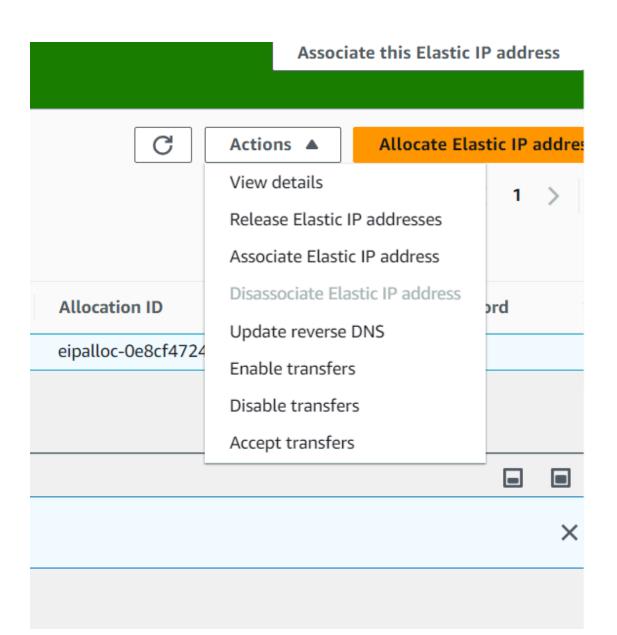
Go to the Security tab and see its security groups.



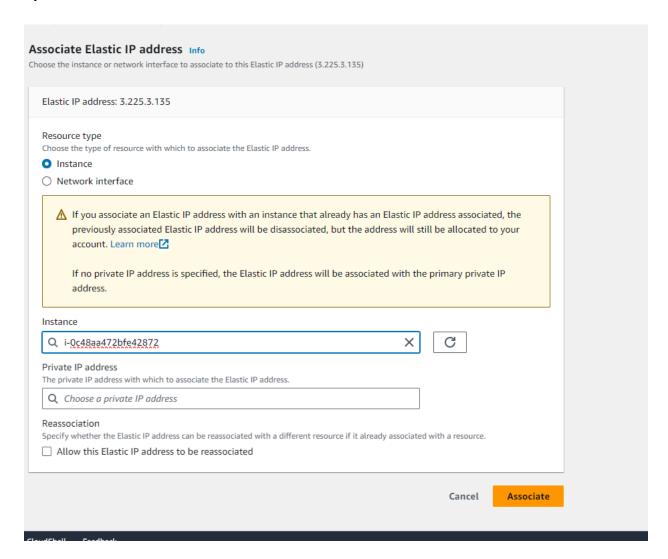
6) Allocate an Elastic IP address to the instance



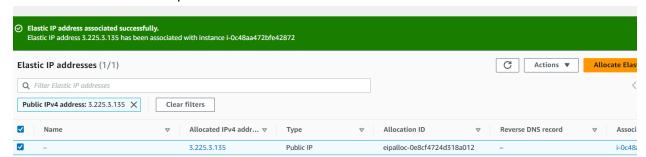




Open created elastic IP address and associate them.



After allocation of elastic ip address in created ec2 instance



Connecting to the EC2 instance via SSH

```
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.
C:\Windows\System32>cd Users
The system cannot find the path specified.
C:\Windows\System32> cd C:\Users\subed\Downloads
 C:\Users\subed\Downloads> icacls key1.pem /inheritance:r /grant:r "%USERNAME%:R"
processed file: key1.pem
Successfully processed 1 files; Failed processing 0 files
C:\Users\subed\Downloads>
C:\Users\subed\Downloads>ssh -i "key1.pem" ec2-user@3.225.3.135
The authenticity of host '3.225.3.135 (3.225.3.135)' can't be established.
ED25519 key fingerprint is SHA256:vNRM9jkQxNCUVKDzSsQnoPkEF5nolqX4k4a/XjqVFbg.
This key is not known by any other names

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added '3.225.3.135' (ED25519) to the list of known hosts.
A newer release of "Amazon Linux" is available.
Version 2023.3.20240117:
Run "/usr/bin/dnf check-release-update" for full release and version update info
              #_
            ####_
                                Amazon Linux 2023
          \_#####\
               \###|
                                https://aws.amazon.com/linux/amazon-linux-2023
           _/m/'
 [ec2-user@ip-172-31-29-139 ~]$|
```