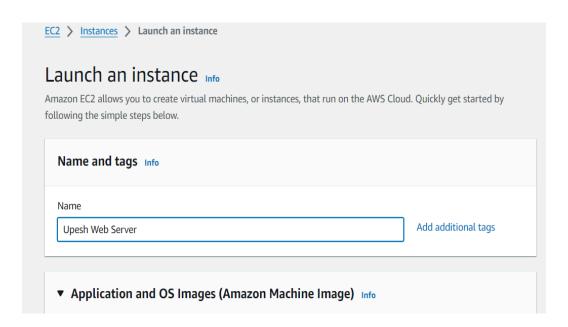
Basic Labs

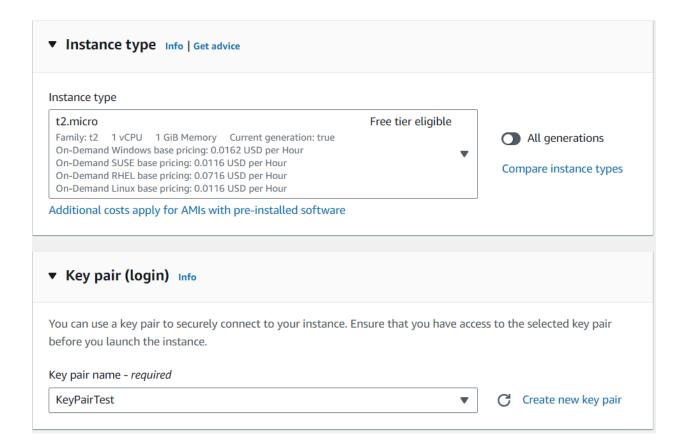
1. EC2 Basics Lab

- 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.

1. Launching EC2 Instance



2. Selecting Instance Type and creating key value pair

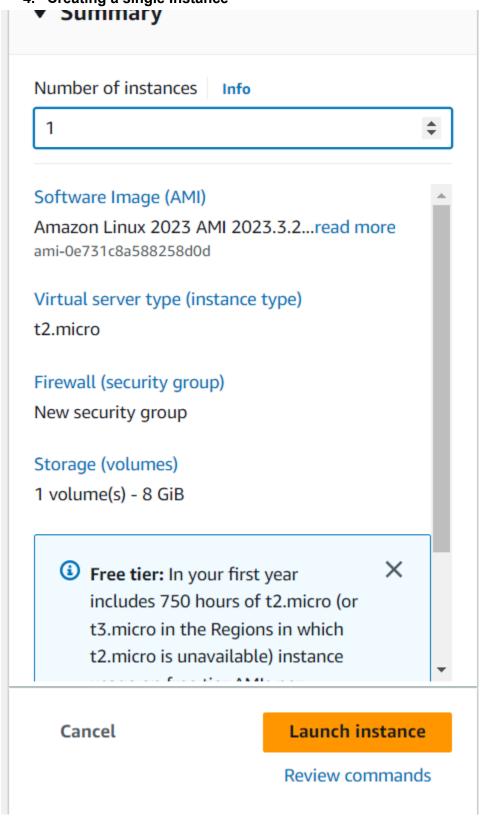


Create key pair X Key pair name Key pairs allow you to connect to your instance securely. KeyPairTest The name can include up to 255 ASCII characters. It can't include leading or trailing spaces. Key pair type RSA O ED25519 RSA encrypted private and public key ED25519 encrypted private and public key pair Private key file format o .pem For use with OpenSSH O .ppk For use with PuTTY ⚠ When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more 🛂 Cancel Create key pair

▼ Network settings Info **Edit** Network Info vpc-09def53eb1315ff84 Subnet Info No preference (Default subnet in any availability zone) Auto-assign public IP Info Enable Firewall (security groups) Info A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your Create security group Select existing security group We'll create a new security group called 'launch-wizard-5' with the following rules: ✓ Allow SSH traffic from Anywhere Helps you connect to your instance 0.0.0.0/0 ✓ Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

A Pules with source of 0.0.0.0/0 allowall IR addresses to access your instance. We recommend cotting

4. Creating a single Instance



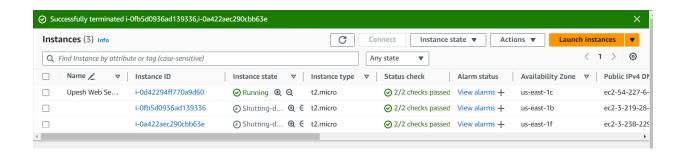
```
EC2 > Instances > Launch an instance

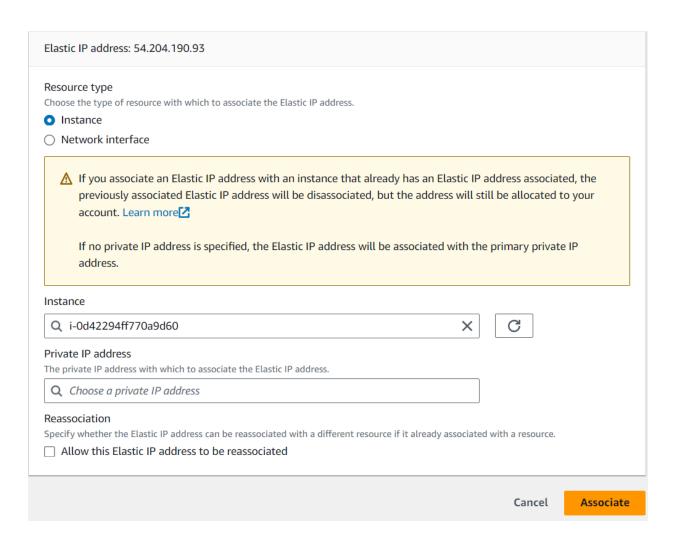
Success
Successfully initiated launch of instance (I-0d42294ff770a9d60)

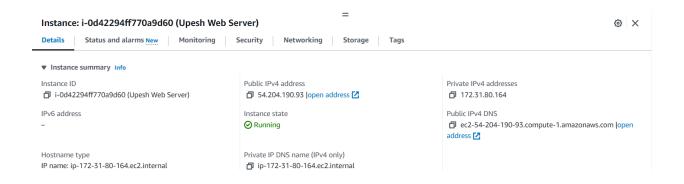
▶ Launch log
```

5. Elastic Ip allocation for Instance









7. Connecting to the instance via SSH