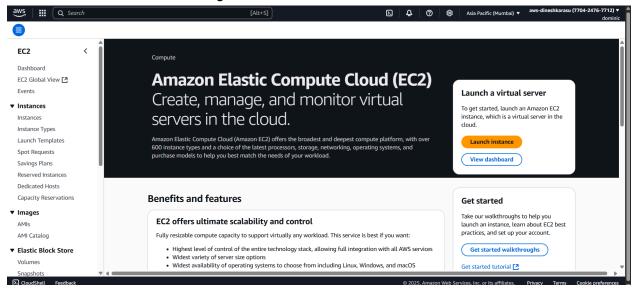
Use case

Use case discription

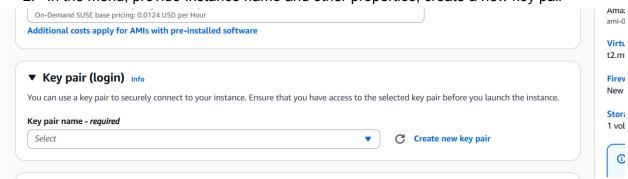
Creating and managing EC2 Instances

launching, connecting via SSH, and understanding security groups and key pairs.

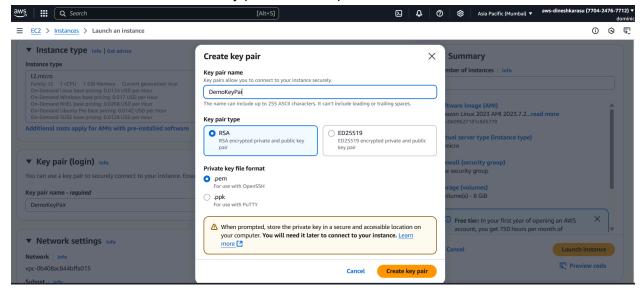
1. In the AWS console, navigate to EC2 service and launch an instance



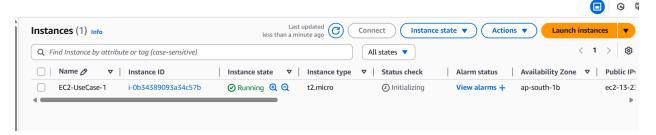
2. In the menu, provide Instance name and other properties, create a new key pair



3. Give a name and create key pair so that a .pem file will be downloaded in local machine



- 4. Allow http traffic from internet and configure storage as per the requirements
- 5. Choose a security group if already existing else create one
- 6. Security groups are like firewalls for our instance so proper configuration is important
- 7. Launch the instance and navigate to instances tab to see the newly created instance and wait for a few seconds for the instance to come in running status



- 8. To connect SSH, navigate to the command prompt and move to the directory in which your downloaded .pem file is located
- 9. Connect to EC2 with the following command ssh -i .\YourKeyPairFileName ec2-user@Public IPV4 of the EC2 instance

```
Windows PowerShell
     Windows PowerShell
     Copyright (C) Microsoft Corporation. All rights reserved.
     Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
ew PS C:\Users\dkarasu> cd desktop
PS C:\Users\dkarasu\desktop> cd awsfiles
PS C:\Users\dkarasu\desktop\awsfiles> ls
          Directory: C:\Users\dkarasu\desktop\awsfiles
lates
     Mode
                              LastWriteTime
                                                        Length Name
                      16-06-2025
                                        19:31
                                                          1678 DemoKeyPair.pem
                      10-06-2025
                                        17:13
                                                          1674 Practice.pem
     PS C:\Users\dkarasu\desktop\awsfiles> ssh -i .\DemoKeyPair.pem ec2-user@13.233.194.103
sts
```

10. Now we have successfully connected our EC2 instance using SSH

Summary:

We have created a new EC2 instance in the AWS console and connected to it using SSH (AWS CLI) from our local machine. Understood what security groups and Key pairs are