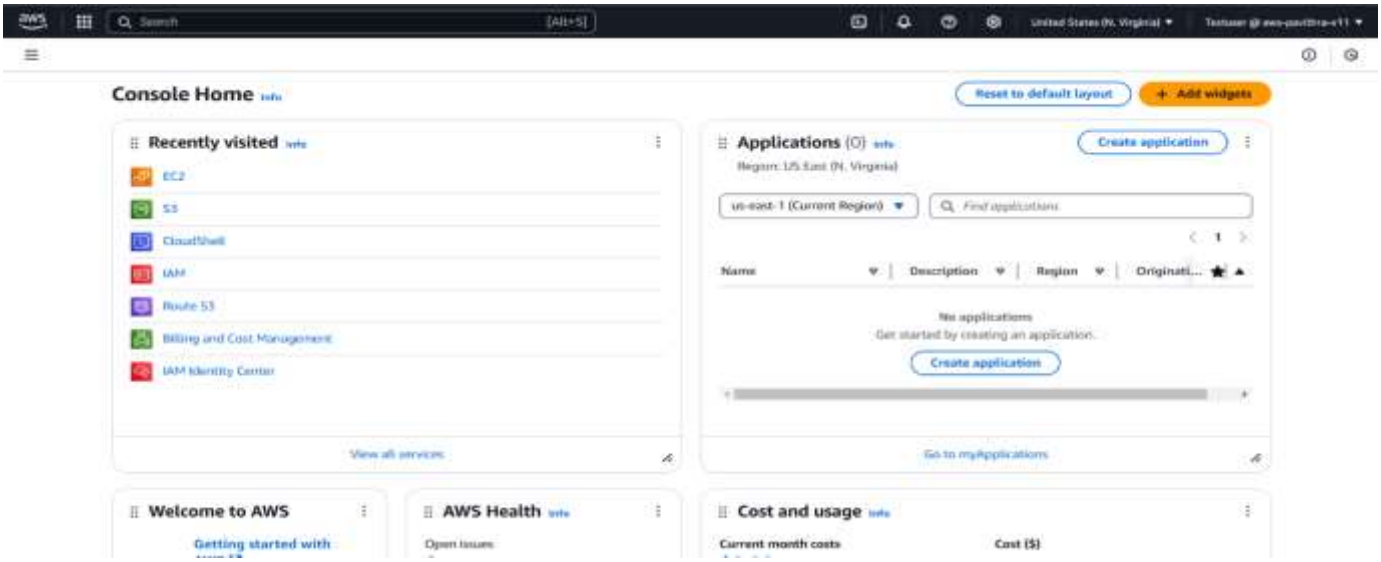
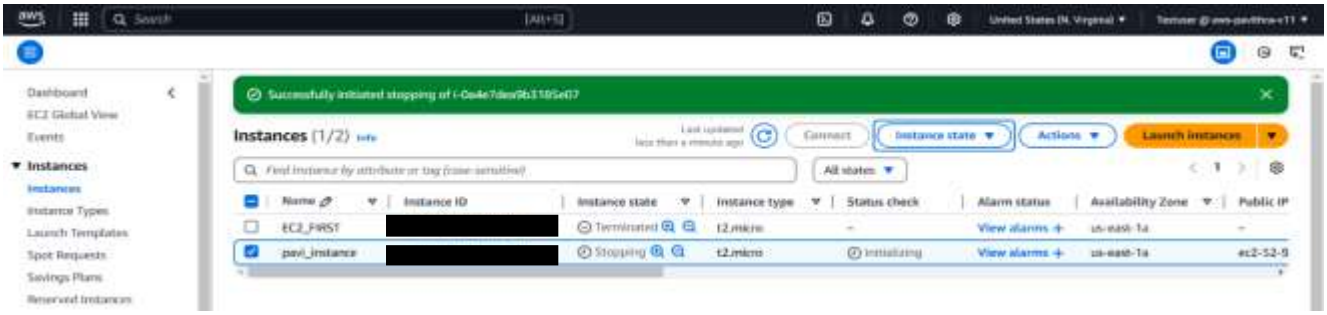
# Creating and Connecting to a Windows EC2 Instance on AWS

## Step 1: Log In to the AWS Management Console

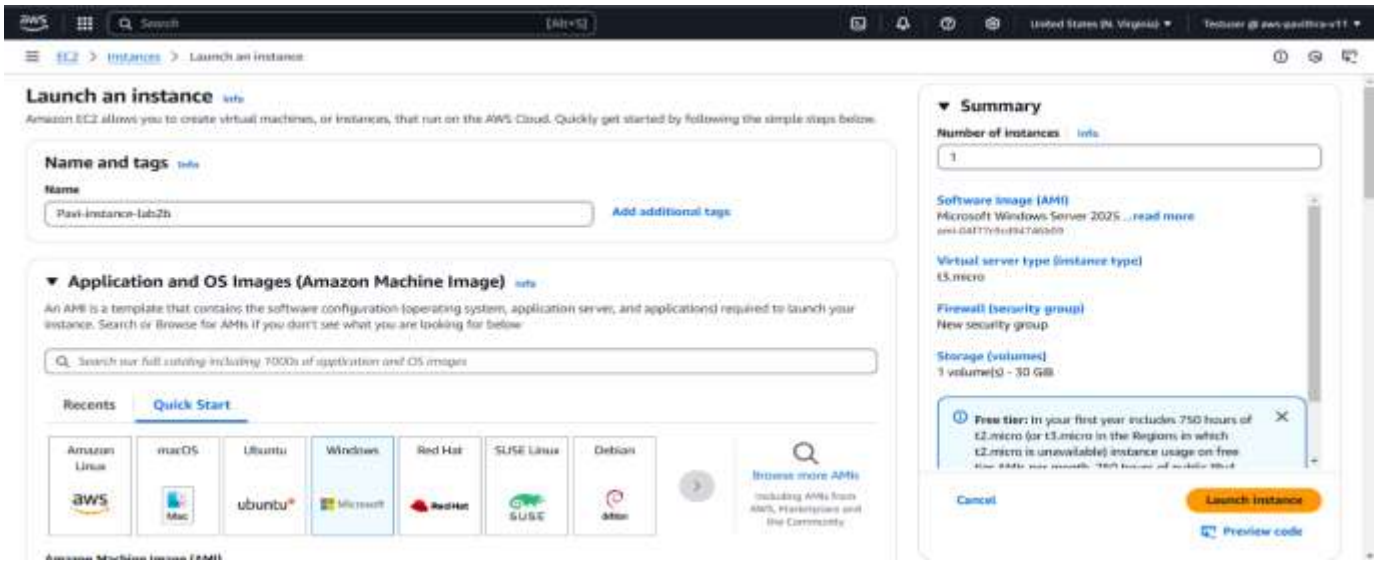


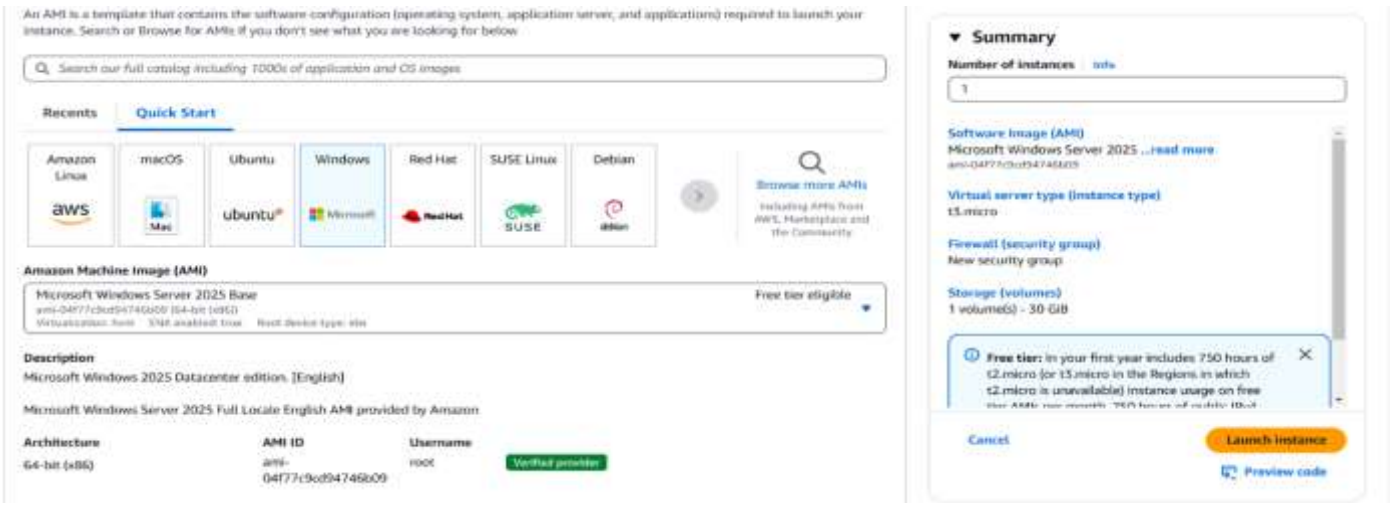

## Step 2: Launch an EC2 Instance

1. **Go to the EC2 Dashboard:**

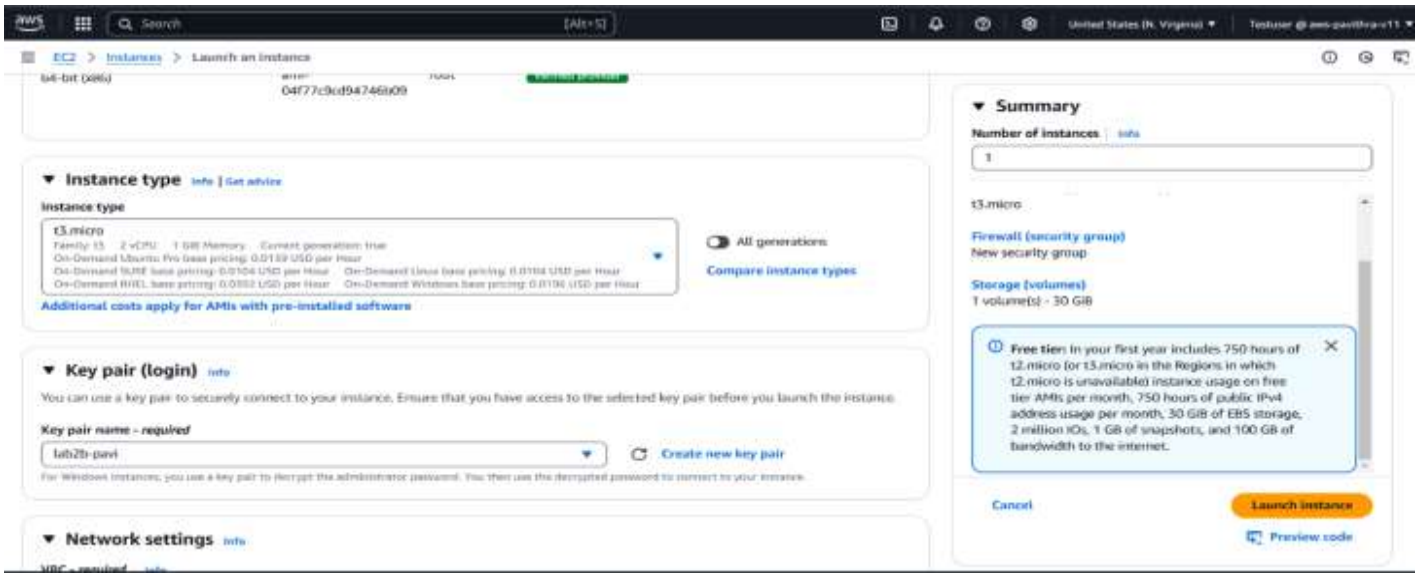



2. **Choose an Amazon Machine Image (AMI):**

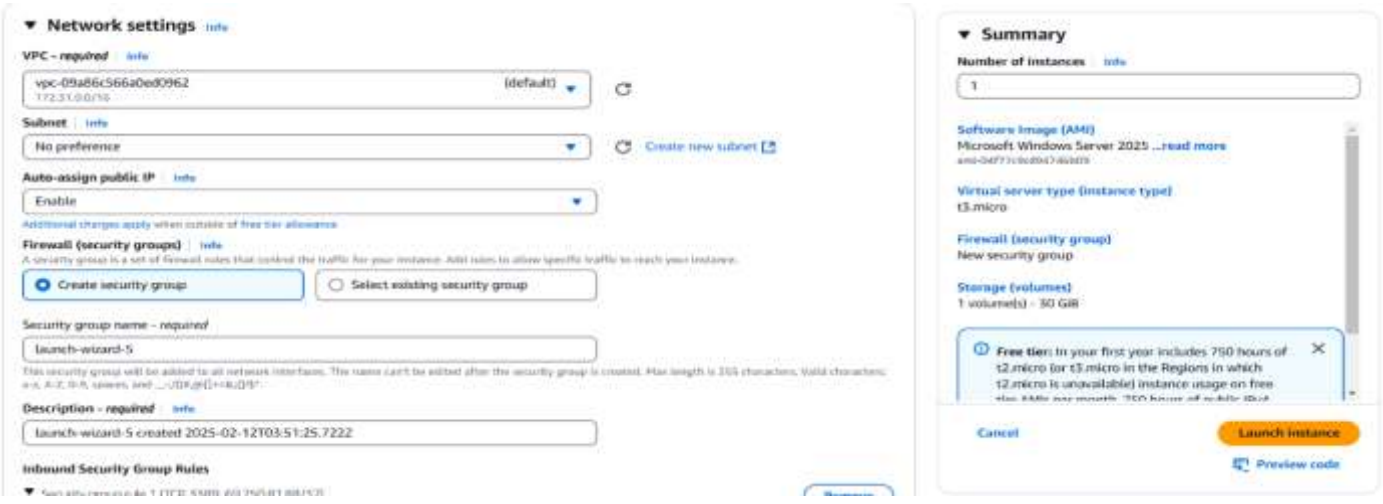




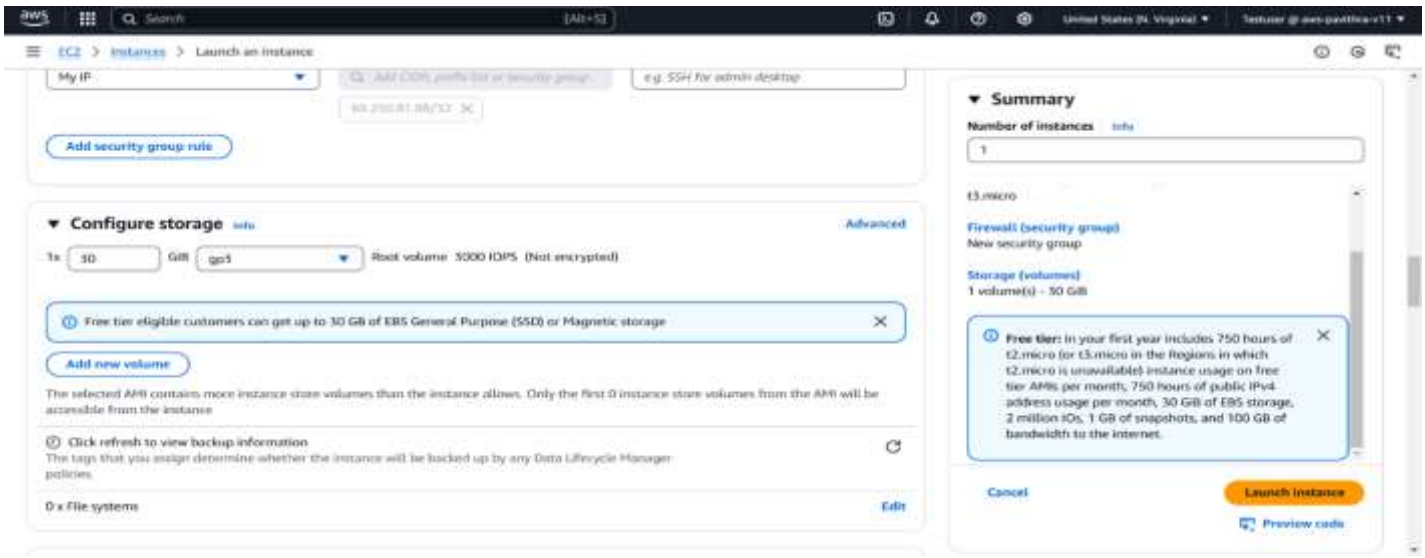

### 3. Select Instance Type:




### 4. Configure Instance Details:

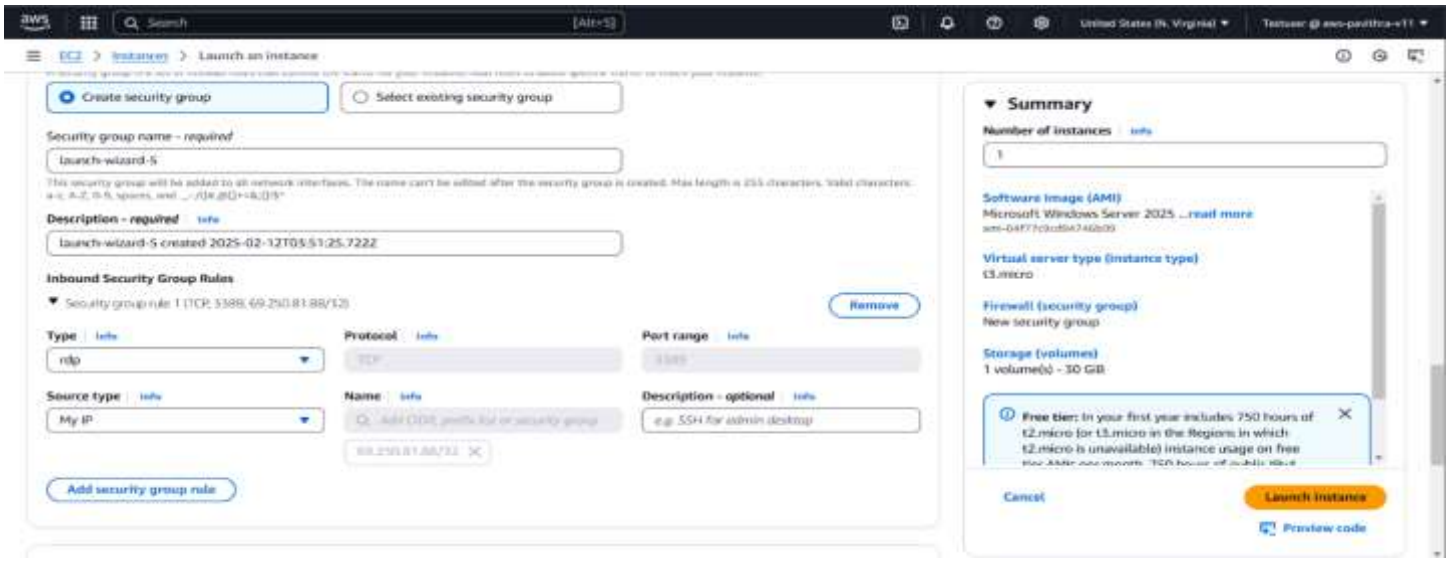


**5.Add Storage:**

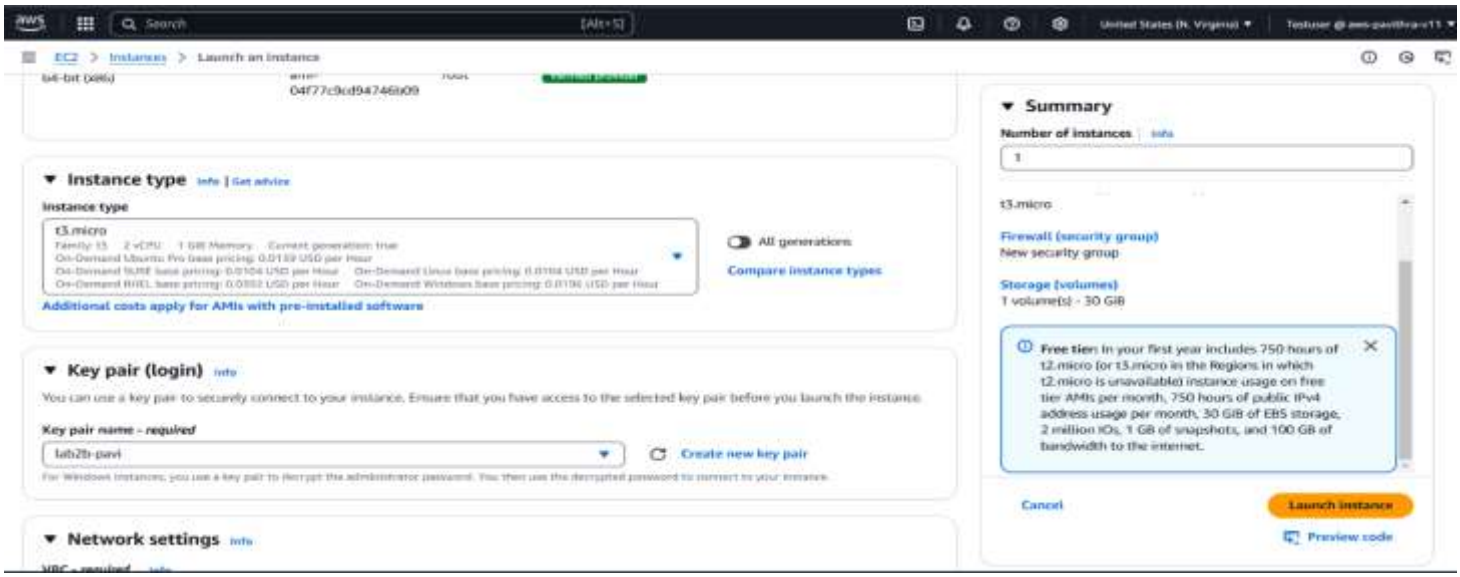



**5. Add Tags:**

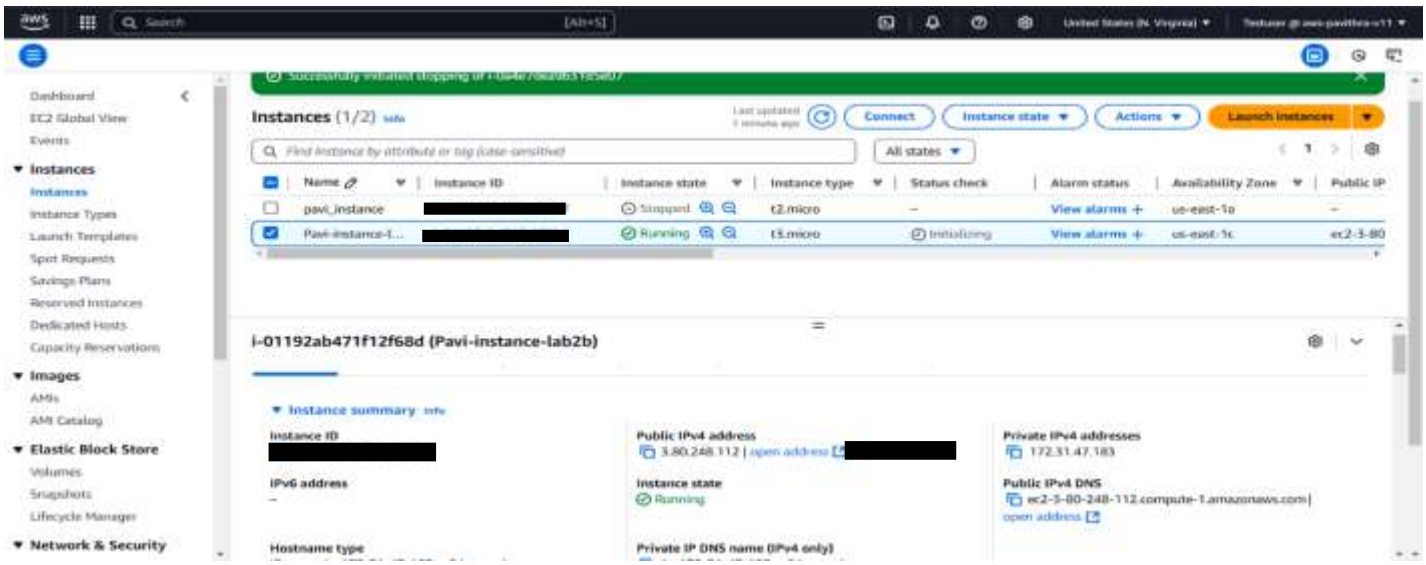
**6. Configure Security Group:**




**7. Review and Launch:**



**Step 3: Find the Public IP Address of Your Windows Instance**

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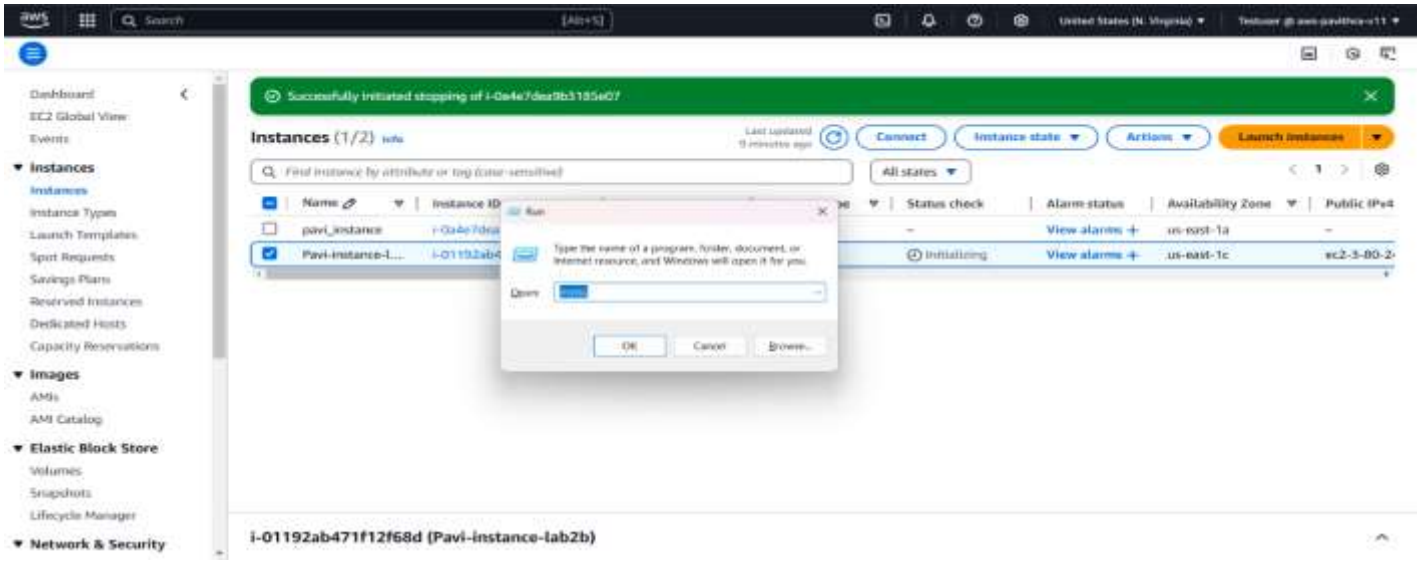
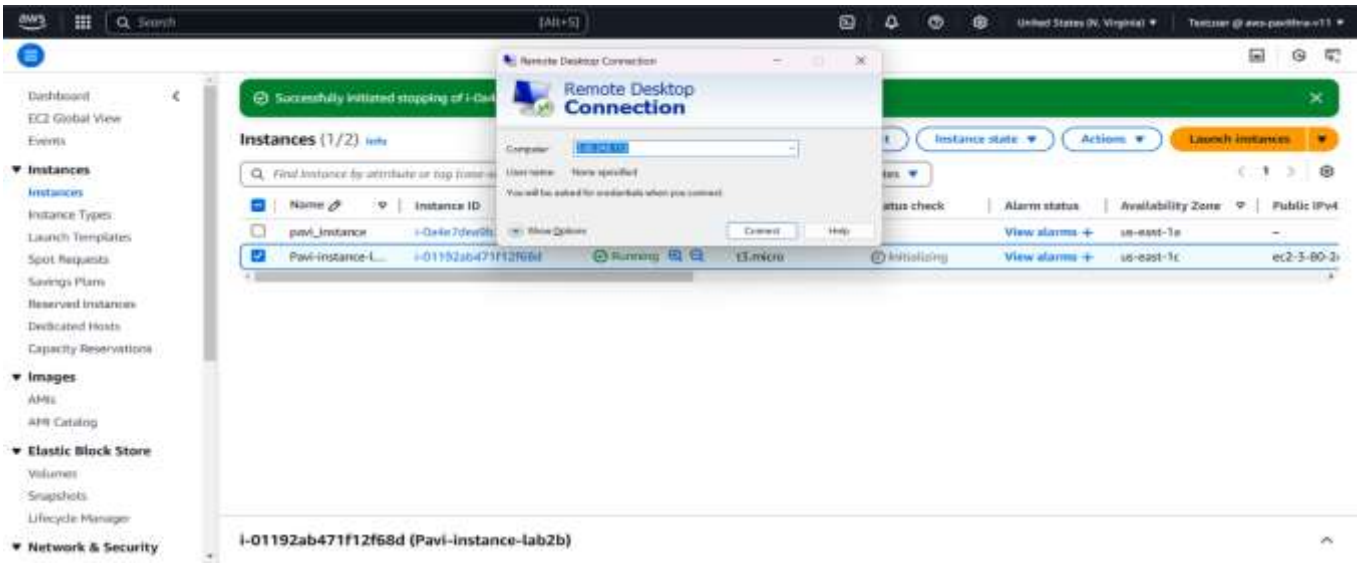
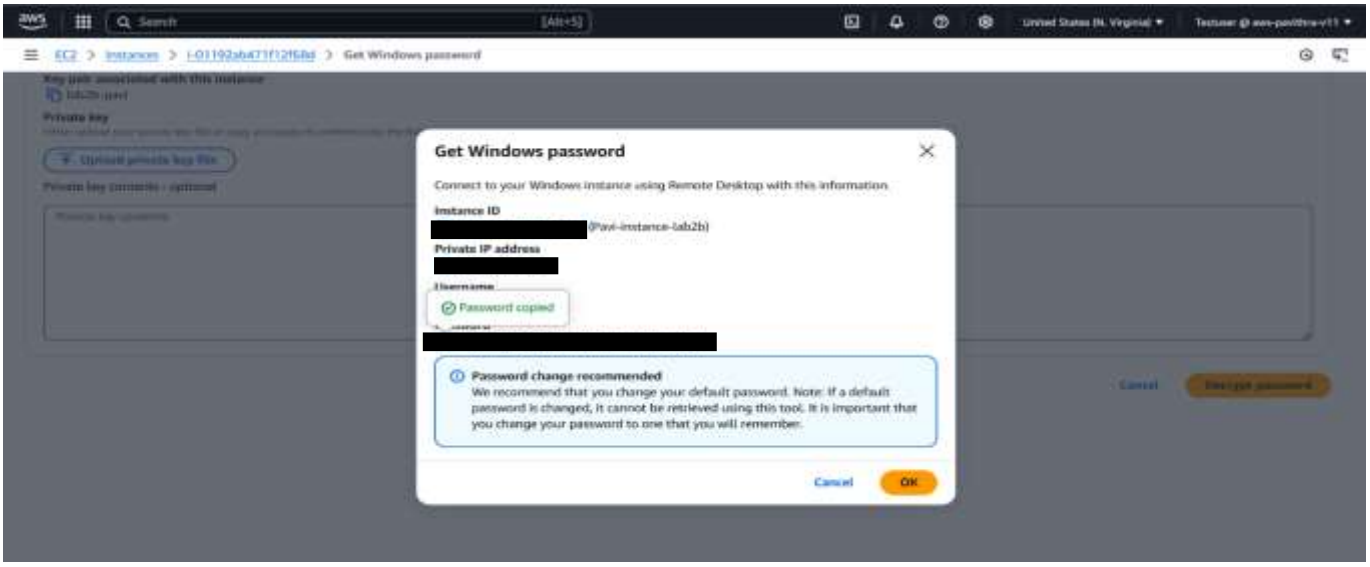
**Step 4: Use Remote Desktop Connection (RDP) to Connect**

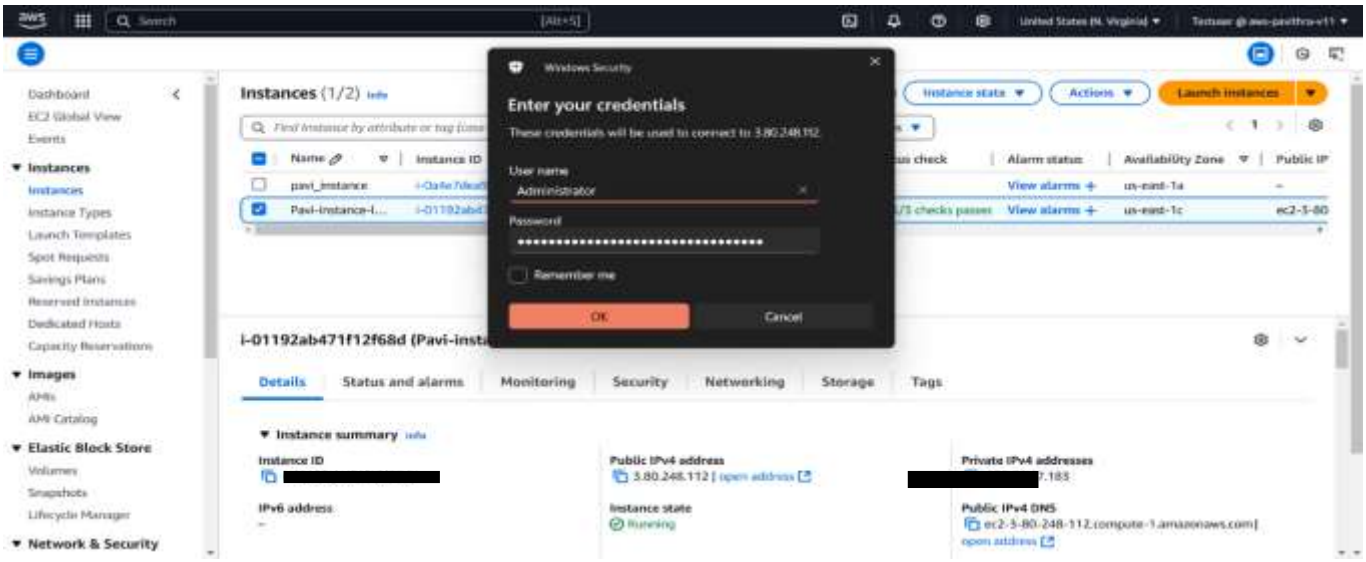
**For Windows Users:**

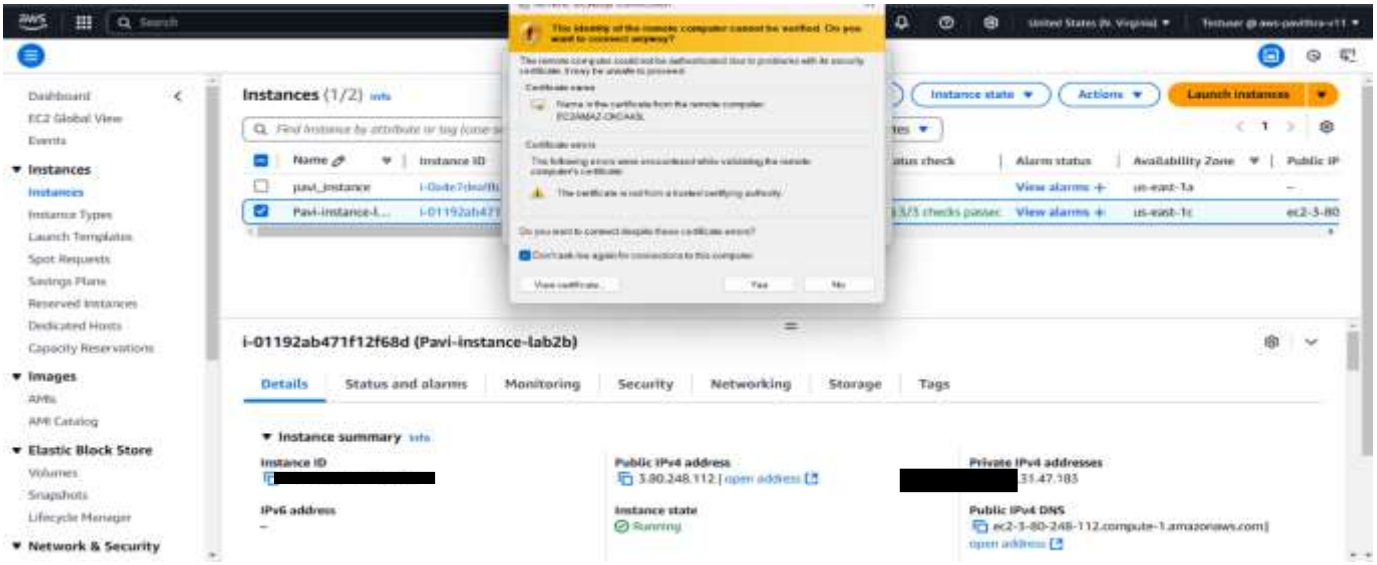


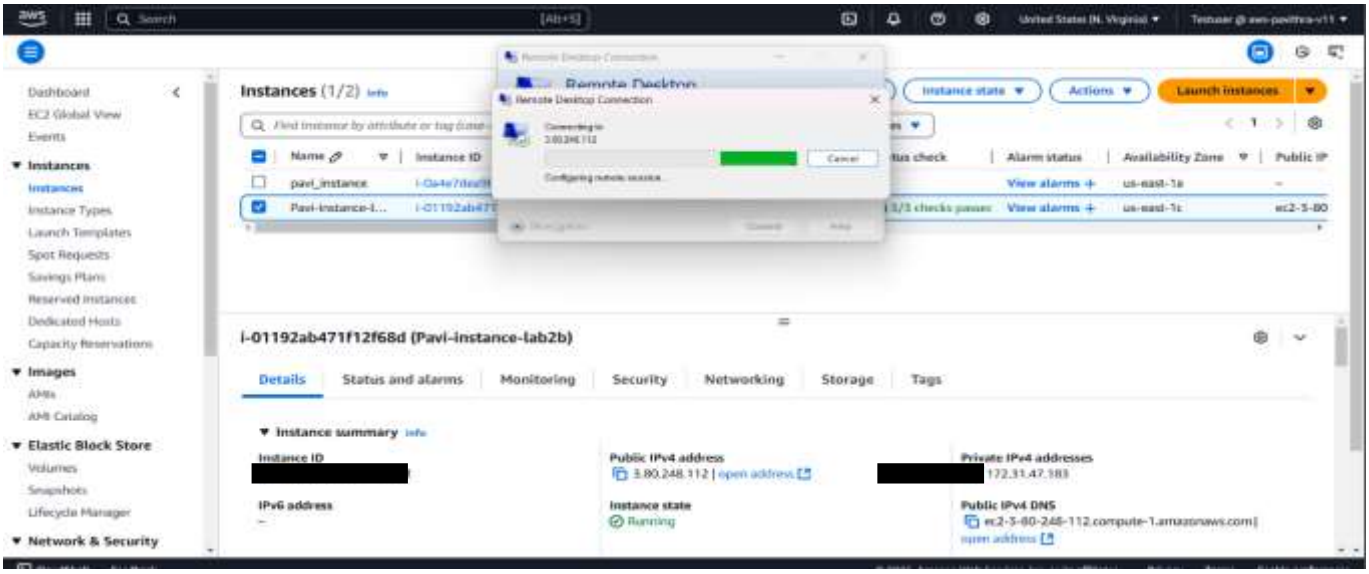
**In the Computer field, enter the Public IPv4 Address from Step 3.**



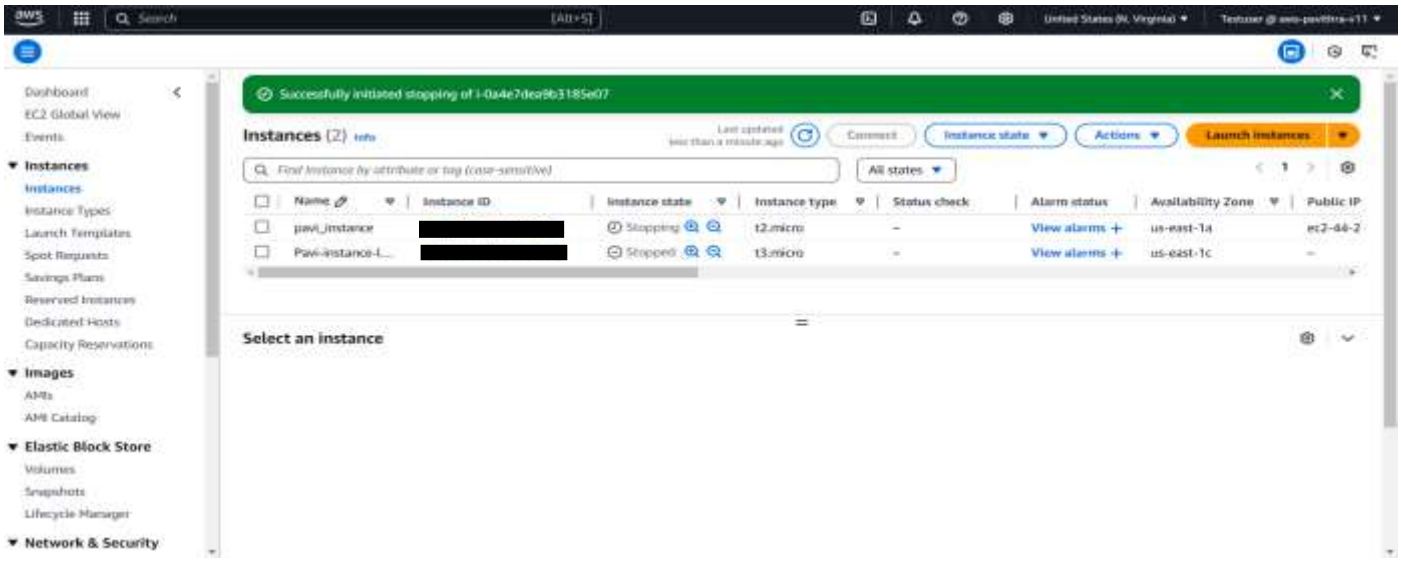






## Step 5: Verify Connection

**Step 6: Clean Up (Optional)**

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**Troubleshooting**

**Issue: Connection Refused or Timeout-VERIFIED**

- Ensure the Windows instance is running in AWS.
- Confirm Security Group allows RDP (Port 3389) from your IP.
- Verify that your Public IPv4 Address is correctly entered in the RDP client.

**Issue: Incorrect Password-VERIFIED**

- Make sure you retrieved the password after the instance launched.
- Re-download and decrypt the password using the .pem file.

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1. **Summary Report:**

**Steps Performed:**

1. **Log In to AWS Management Console**
    - Accessed the AWS Management Console using login credentials.
2. **Launch an EC2 Instance**
    - Navigated to the EC2 Dashboard.
    - Selected an Amazon Machine Image (AMI): Chose a Windows AMI for the instance.
    - Selected an Instance Type: Picked an instance type based on requirements.
    - Configured Instance Details: Set up instance parameters such as network settings, IAM role, and shutdown behavior.
    - Added Storage: Configured the necessary disk size and type.
    - Added Tags: Labeled the instance for easier identification.
    - Configured Security Group: Allowed RDP (port 3389) to enable remote access.
    - Reviewed and Launched the Instance.
3. **Find the Public IP Address of the Windows Instance**

- Located the instance in the AWS EC2 dashboard and retrieved the Public IPv4 Address.

4. **Use Remote Desktop Connection (RDP) to Connect**
    - Opened Remote Desktop Connection (RDP).
    - Entered the Public IPv4 Address in the "Computer" field.
    - Provided the administrator username and password to log in**.**
5. **Verify Connection**
    - Successfully accessed the Windows EC2 instance using RDP.
6. **Clean Up (Optional)**
    - **If** required, terminated the instance to avoid unnecessary billing.

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**Issues Faced and Resolutions: Retrieving Password for Windows EC2 Instance**

Issue: Unable to Retrieve the Administrator Password for RDP Login

- The main issue faced was how to get the password for the Windows EC2 instance after launching it.

Resolution Steps:

1. Access the AWS Management Console
    - Logged in to the AWS Management Console.
    - Navigated to EC2 Dashboard.
2. Select the Running Instance
    - Located the Windows EC2 instance in the Instances section.
    - Selected the instance for which the password was needed.
3. Retrieve the Administrator Password
    - Clicked on Actions > Security > Get Windows Password.
    - Selected the private key file (.pem) used during instance creation.
    - Clicked Decrypt Password to reveal the Administrator password.
4. Use the Retrieved Password in RDP
    - Opened Remote Desktop Connection (mstsc) using Win + R → typed mstsc → hit Enter.
    - Entered the Public IPv4 Address in the "Computer" field.
    - Used Username: Administrator.
    - Pasted the decrypted password retrieved from AWS.
    - Clicked OK and accepted the security warning to proceed.

Final Outcome:

- Successfully retrieved the Windows password and used it to connect to the EC2 instance via Remote Desktop Connection (RDP).