

Lesson 03 Demo 02

Automating App Installation on EC2 Instance

Objective: To automate application installation during EC2 instance launch in AWS using User Data

Tools required: AWS workspace

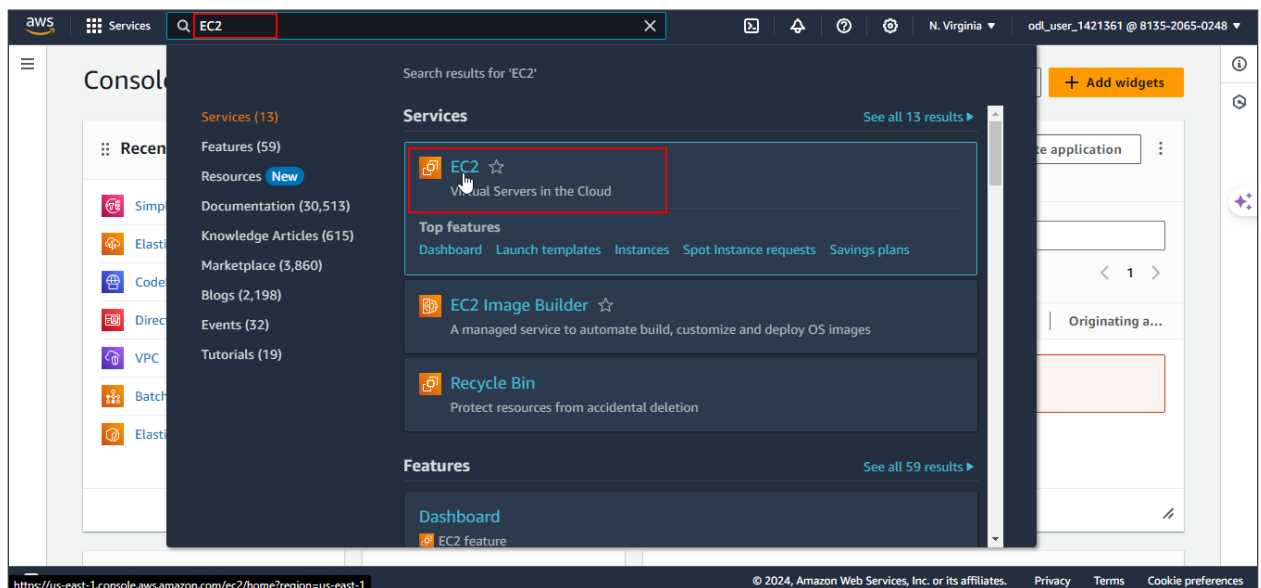
Prerequisites: NA

Steps to be followed:

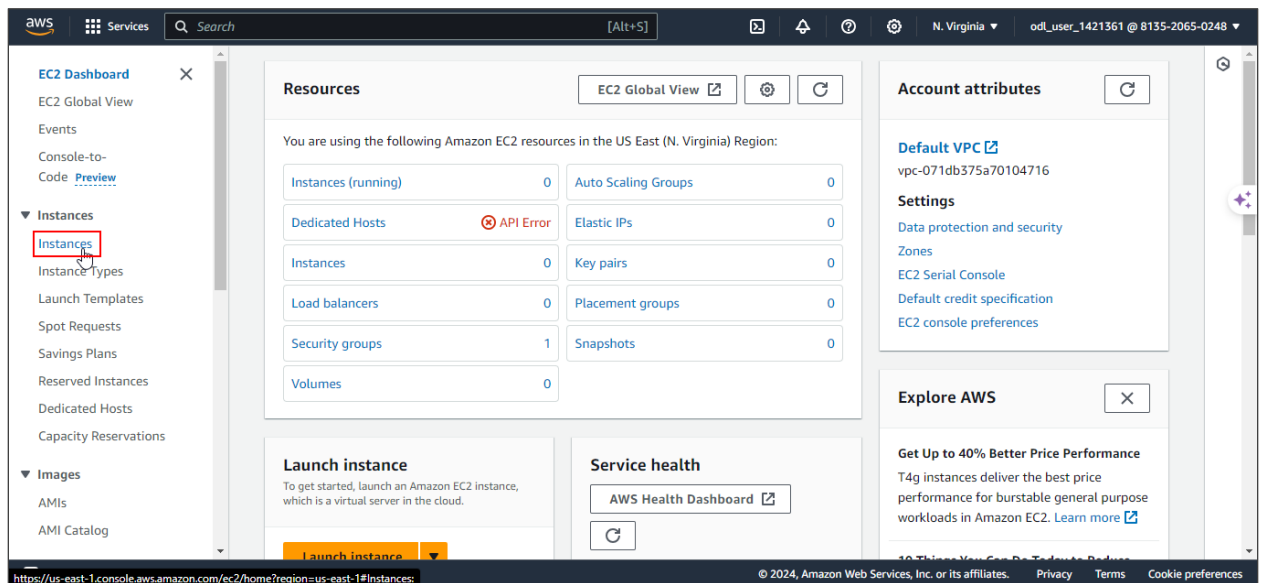
1. Install apps when launching an instance

Step 1: Install apps when launching an instance

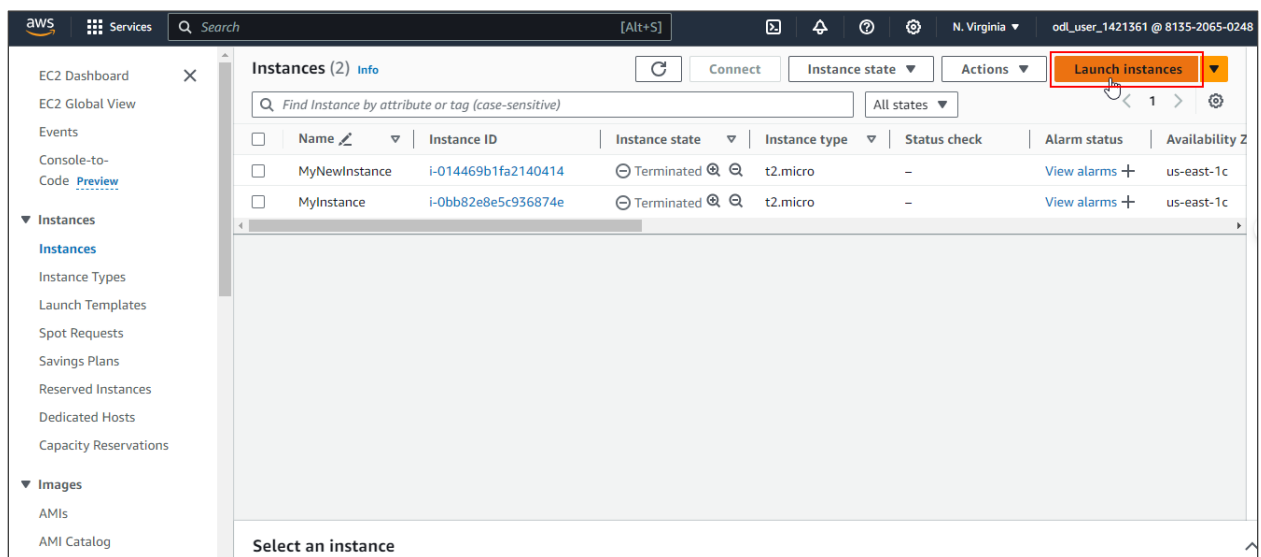
1.1 Navigate to the AWS console home dashboard, search for and click on **EC2** as shown:



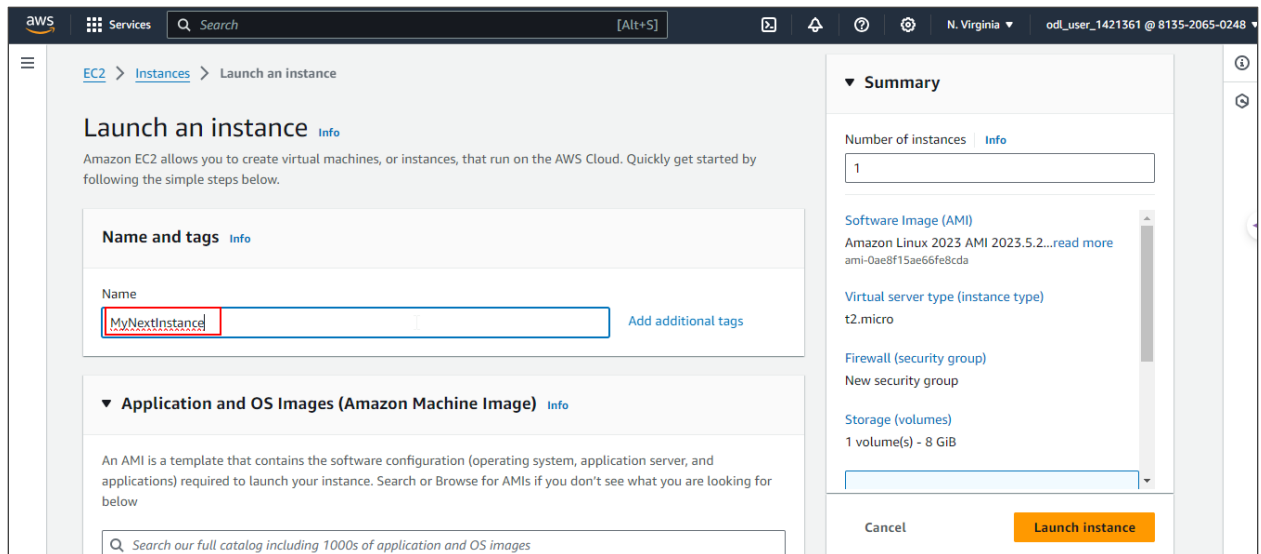
1.2 Click on **Instances** on the left pane as shown:



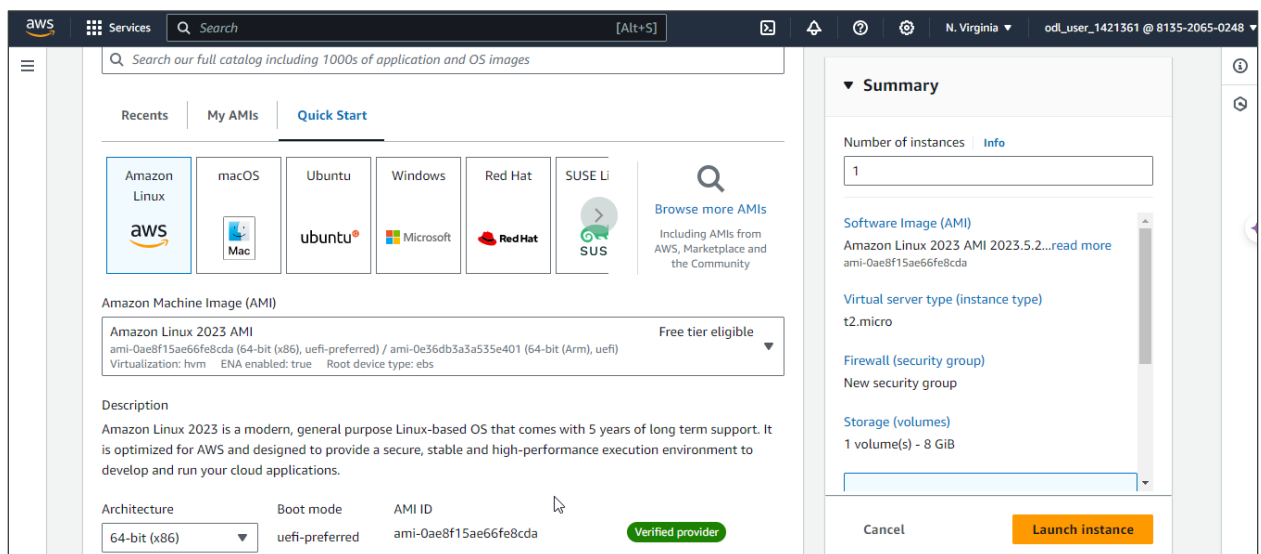
1.3 Click on the **Launch instances** button as shown:



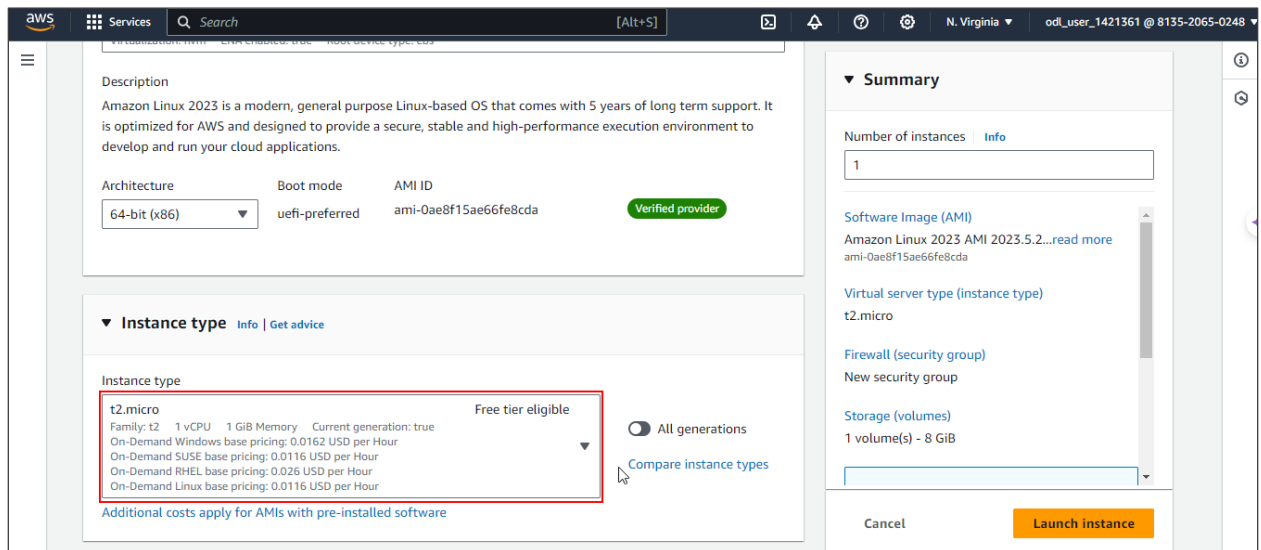
1.4 Add a desired name as shown:



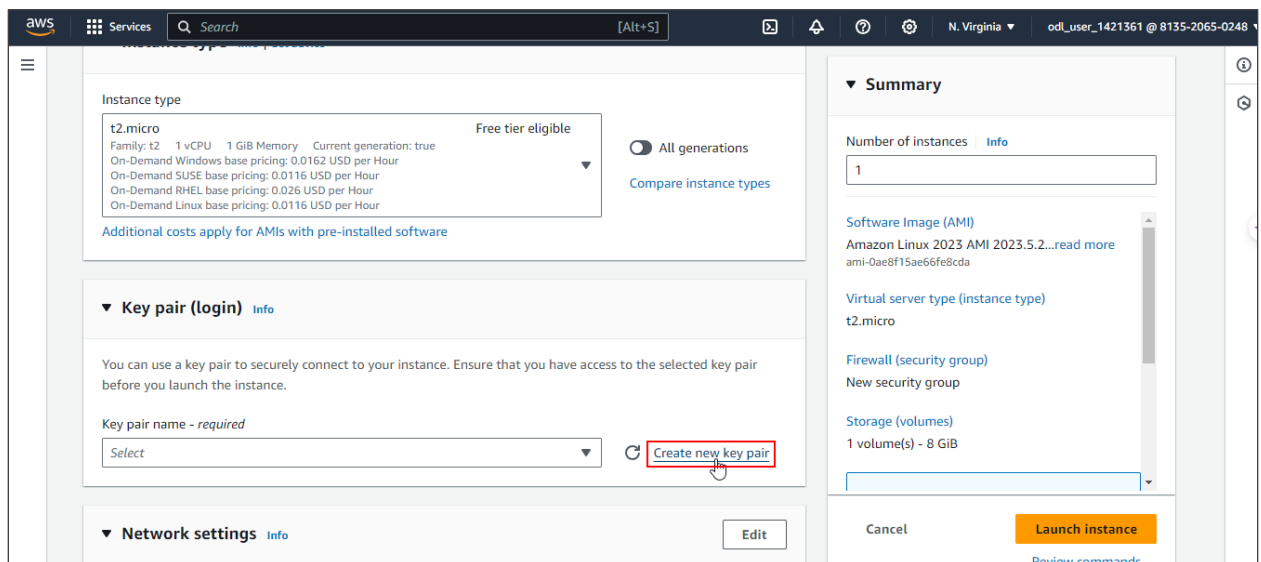
1.5 Select the desired AMI as shown:



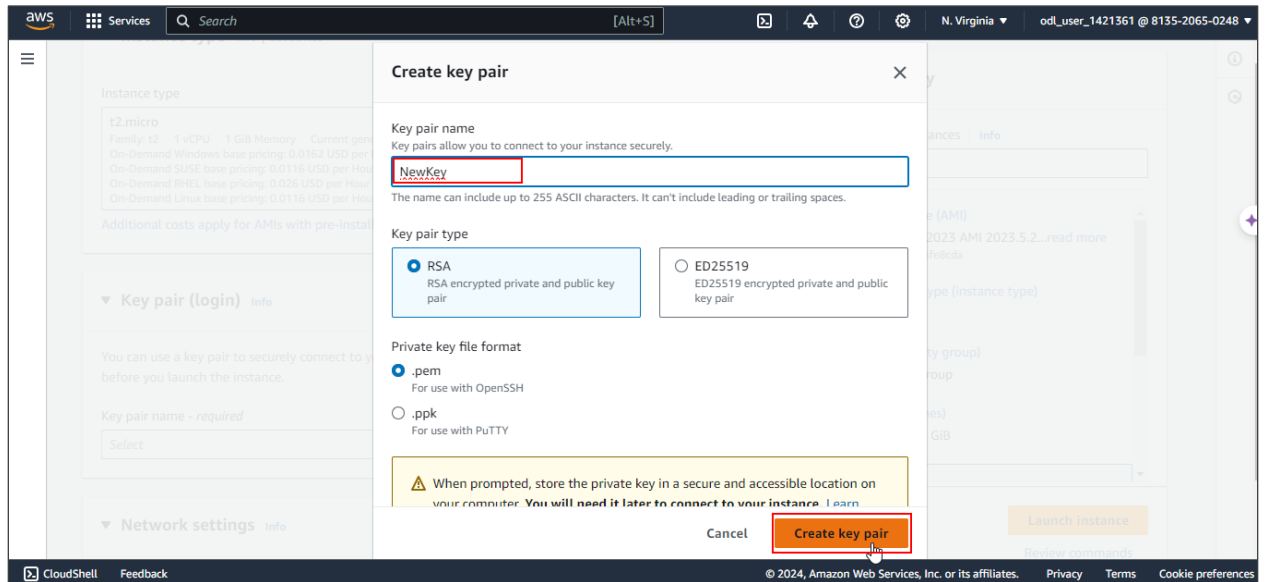
1.6 Select **t2.micro** as the **Instance type** as shown:



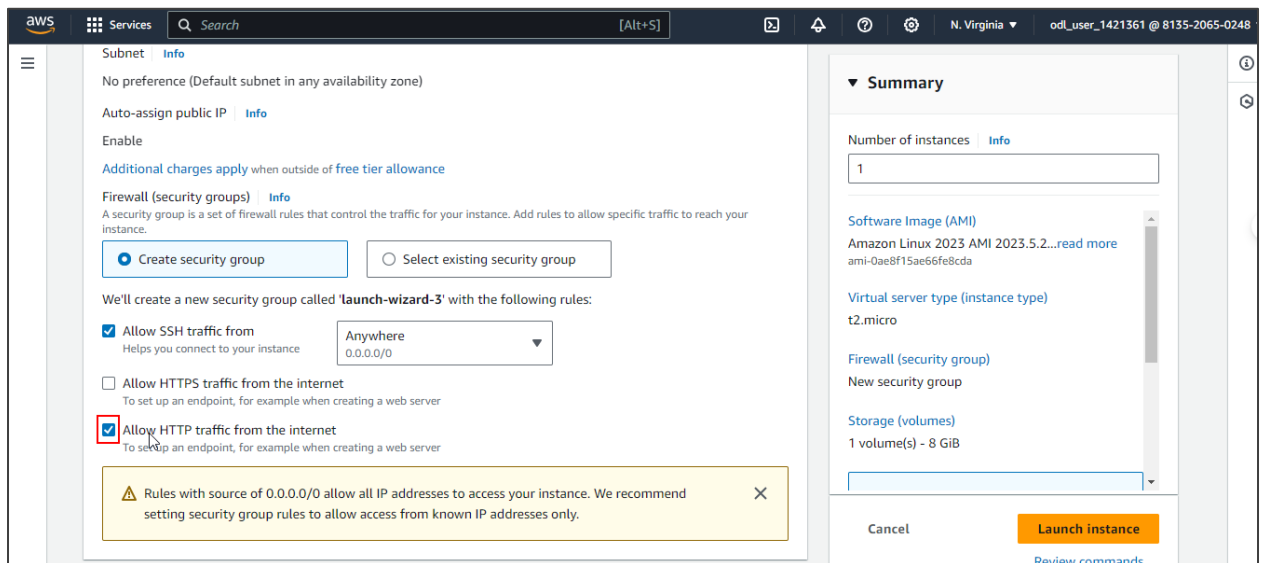
1.7 Click on **Create new key pair**



1.8 Add a desired name, select the required format for the private key file, and click on the **Create key pair** button as shown:



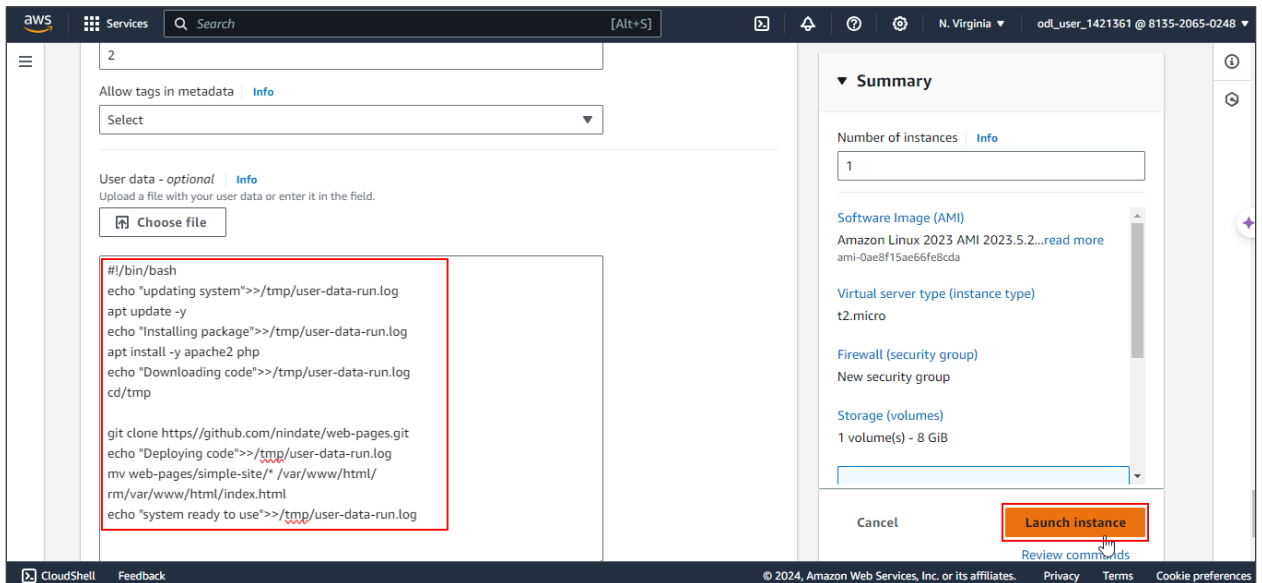
1.9 Click on the **Allow HTTP traffic from the internet** checkbox as shown:



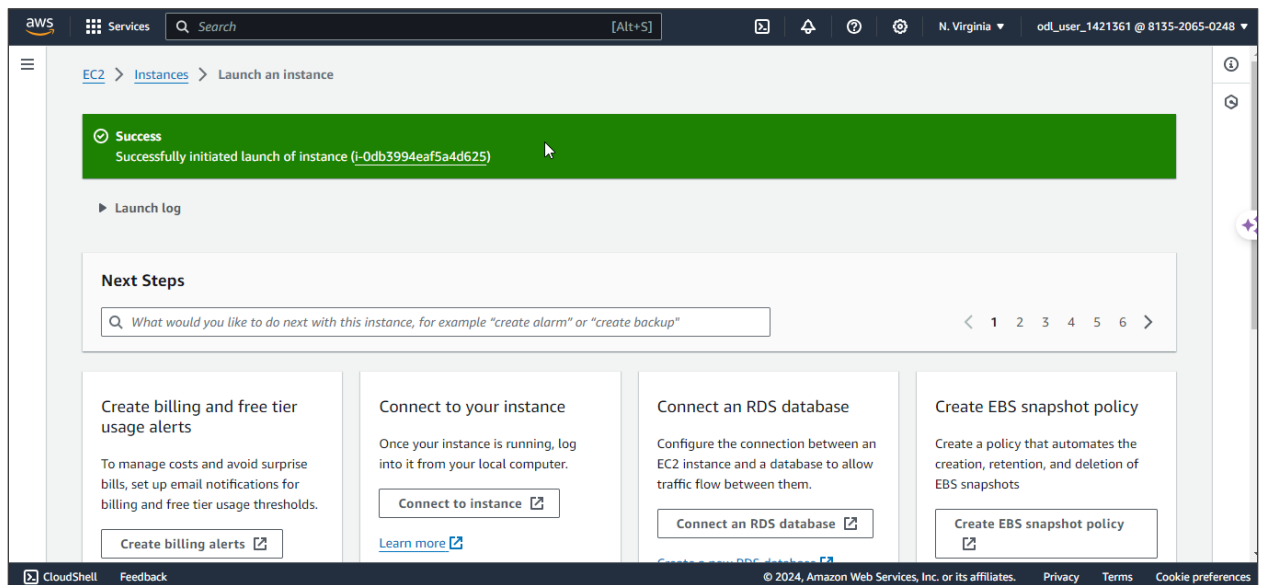
1.10 Navigate to the **Advance details** section and scroll down to the **User data** box. Add the following code and click on **Launch instance**:

```
#!/bin/bash
echo "updating system">>/tmp/user-data-run.log
apt update -y
echo "Installing package">>/tmp/user-data-run.log
apt install -y apache2 php
echo "Downloading code">>/tmp/user-data-run.log
cd/tmp

git clone https://github.com/nindate/web-pages.git
echo "Deploying code">>/tmp/user-data-run.log
mv web-pages/simple-site/* /var/www/html/
rm/var/www/html/index.html
echo "system ready to use">>/tmp/user-data-run.log
```



You will see the following interface:



By following these steps, you have successfully automated the installation of applications while launching an EC2 instance in AWS using User Data.