

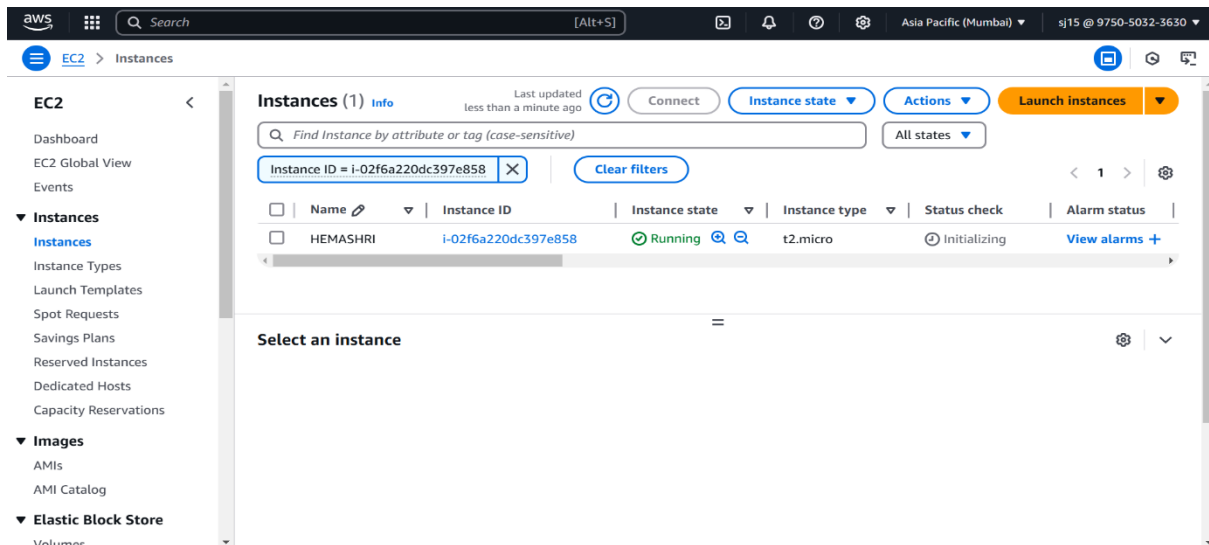
Publishing a Website on AWS

Create an Ubuntu EC2 Instance

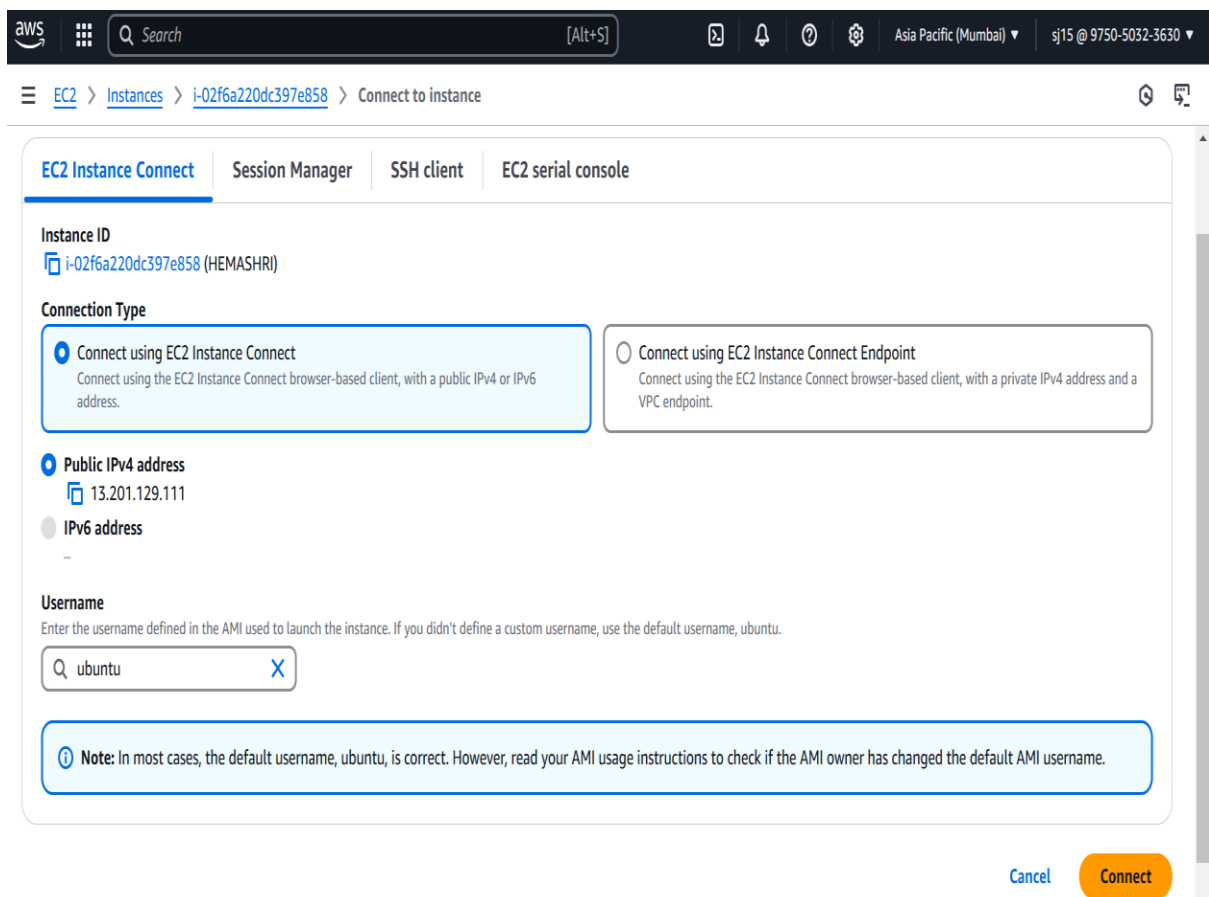
Launch an EC2 instance with Ubuntu.

The screenshot shows the 'Launch an instance' page in the AWS Management Console. The 'Name and tags' section has a text input for 'Name' containing 'HEMASHRI' and a button 'Add additional tags'. The 'Application and OS Images (Amazon Machine Image)' section includes a search bar, tabs for 'Recents', 'My AMIs', and 'Quick Start', and a grid of AMI options: Amazon Linux, macOS, Ubuntu (selected), Windows, Red Hat, and SUSE Linux. A 'Browse more AMIs' link is also present. The right sidebar shows a 'Summary' section with 'Number of instances' set to 1, 'Software Image (AMI)' as 'Canonical, Ubuntu, 24.04, amd64...', 'Virtual server type (instance type)' as 't2.micro', 'Firewall (security group)' as 'New security group', and 'Storage (volumes)' as '1 volume(s) - 8 GiB'. At the bottom right are 'Cancel' and 'Launch instance' buttons, along with a 'Preview code' link.

This screenshot shows the 'Launch an instance' page with the 'Key pair name' and 'Network settings' sections expanded. The 'Key pair name' section has a dropdown menu showing 'HemaVM' and a 'Create new key pair' button. The 'Network settings' section includes fields for 'Network' (vpc-0b918116e453a16a9), 'Subnet' (No preference), and 'Auto-assign public IP' (Enabled). The 'Firewall (security groups)' section has radio buttons for 'Create security group' and 'Select existing security group', with the latter selected. Below, a 'Common security groups' dropdown shows 'hemashrihm-security sg-030742e2f6a4b9b97' selected. A 'Compare security group rules' button is at the bottom right of this section. The right sidebar 'Summary' section remains the same as in the previous screenshot, showing 1 instance, Ubuntu AMI, t2.micro instance type, new security group, and 8 GiB storage. 'Cancel' and 'Launch instance' buttons are at the bottom right.



Connect to the instance.



Install Apache

1. Update the package lists:

```
sudo apt update -y
```

2. Install Apache:

```
sudo apt install apache2 -y
```

3. Start and enable Apache:

```
sudo systemctl start apache2  
sudo systemctl enable apache2
```

4. Verify Apache installation by accessing the public IP address in a web browser.
The default Apache server page should be visible

Clone the Repository

1. Install Git:

```
sudo apt install git -y
```

2. Navigate to the default HTTP directory:

```
cd /var/www/html
```

3. Clone the repository:

```
sudo git clone https://github.com/your-username/your-repo.git
```

4. Move the contents of the repository to the HTML directory:

5.

```
sudo mv your-repo/* .  
sudo rm -rf your-repo
```

Set Permissions

1.

```
sudo chmod -R 755 /var/www/html  
sudo chown -R www-data:www-data /var/www/html
```

```
aws [Alt+S] Asia Pacific (Mumbai) sj15 @ 9750-5032-3630
building dependency tree... Done
reading state information... Done
it is already the newest version (1:2.43.0-lubuntu7.2).
it is set to manually installed.
^ upgraded, 0 newly installed, 0 to remove and 106 not upgraded.
buntu@ip-172-31-4-250:~$ sudo apt install git -y
reading package lists... Done
building dependency tree... Done
reading state information... Done
it is already the newest version (1:2.43.0-lubuntu7.2).
^ upgraded, 0 newly installed, 0 to remove and 106 not upgraded.
buntu@ip-172-31-4-250:~$ cd /var/www/html
buntu@ip-172-31-4-250:/var/www/html$ sudo git clone https://github.com/HemashriHM/portfolio2/
Cloning into 'portfolio2'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 10 (delta 1), reused 10 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (10/10), 2.19 MiB | 5.51 MiB/s, done.
Resolving deltas: 100% (1/1), done.
buntu@ip-172-31-4-250:/var/www/html$ sudo mv portfolio2/* .
buntu@ip-172-31-4-250:/var/www/html$ sudo rm -rf portfolio2/
buntu@ip-172-31-4-250:/var/www/html$ sudo chmod -R 755 /var/www/html
buntu@ip-172-31-4-250:/var/www/html$ sudo chown -R www-data:www-data /var/www/html
buntu@ip-172-31-4-250:/var/www/html$
```

i-02f6a220dc397e858 (HEMASHRI)
PublicIPs: 13.201.129.111 PrivateIPs: 172.31.4.250

Restart Apache

1. Restart the Apache server:

```
sudo systemctl restart apache2
```

Access the Website

1. Open a web browser and navigate to:

<http://your-ec2-public-ip>

