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Class: Msc. Computer Science

Subject: Cloud Computing

Year: 2022-23

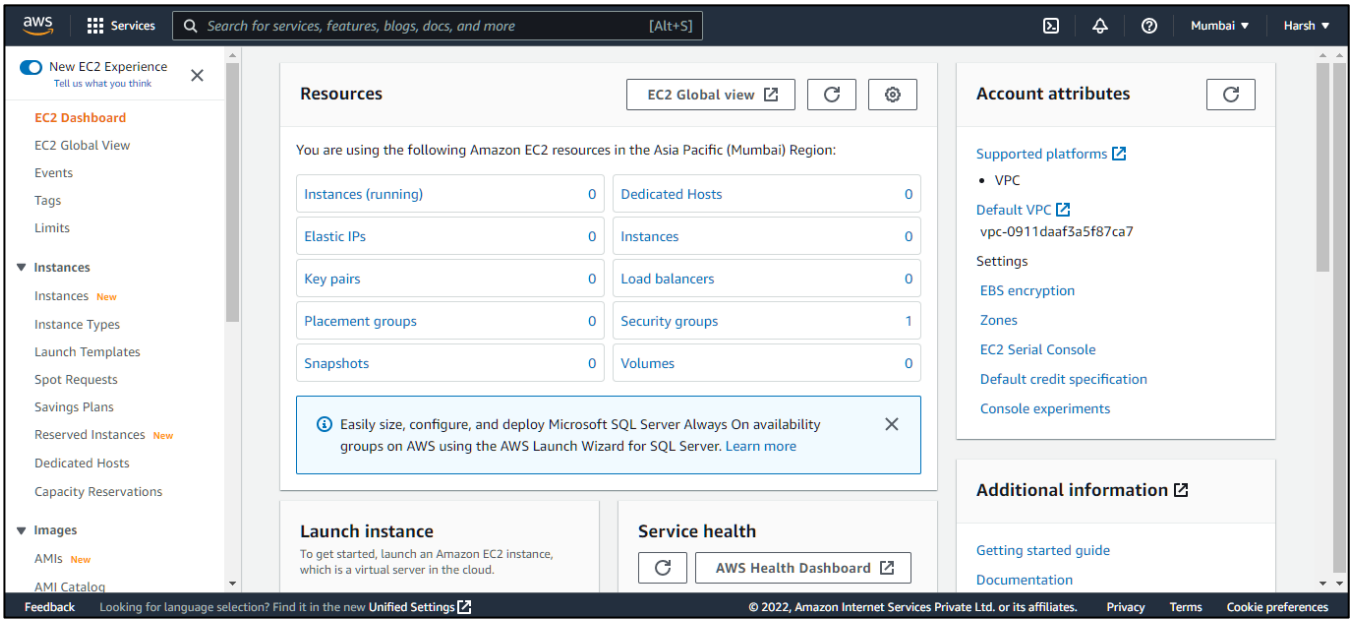
Practical 7

Aim: Implementation of Cloud services on Amazon web services.

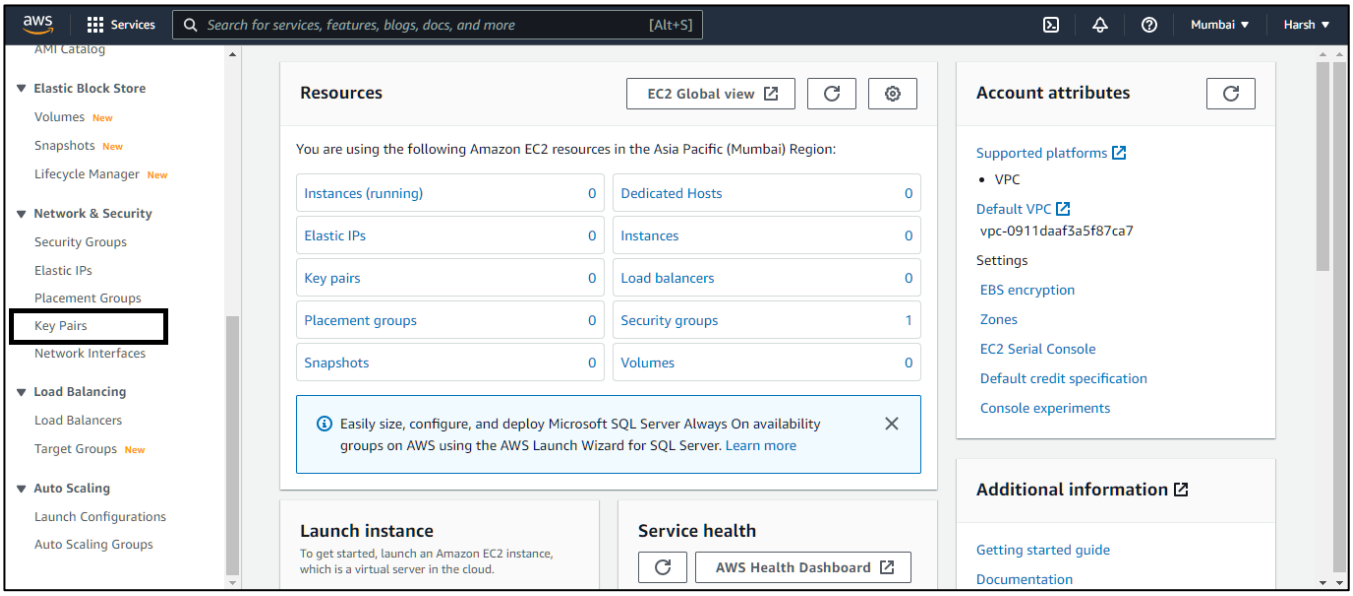
Code:

Setting up EC2 Key-Pairs

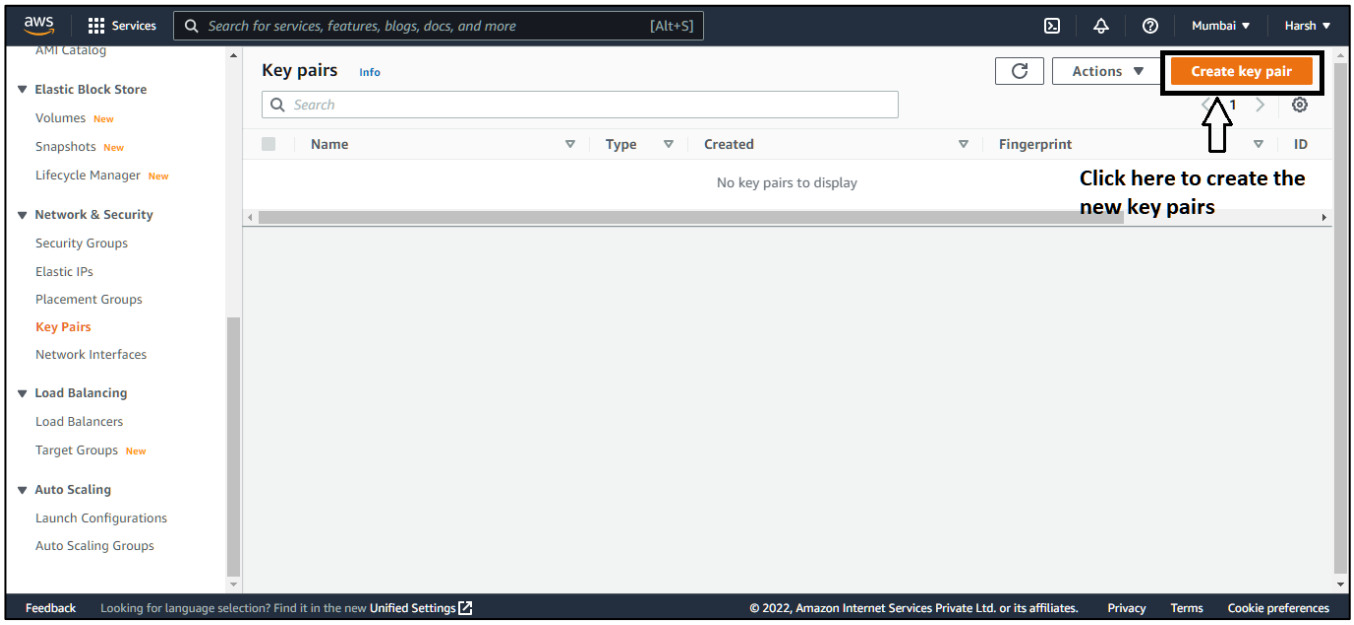
Step 1: Go to Amazon EC2 Console



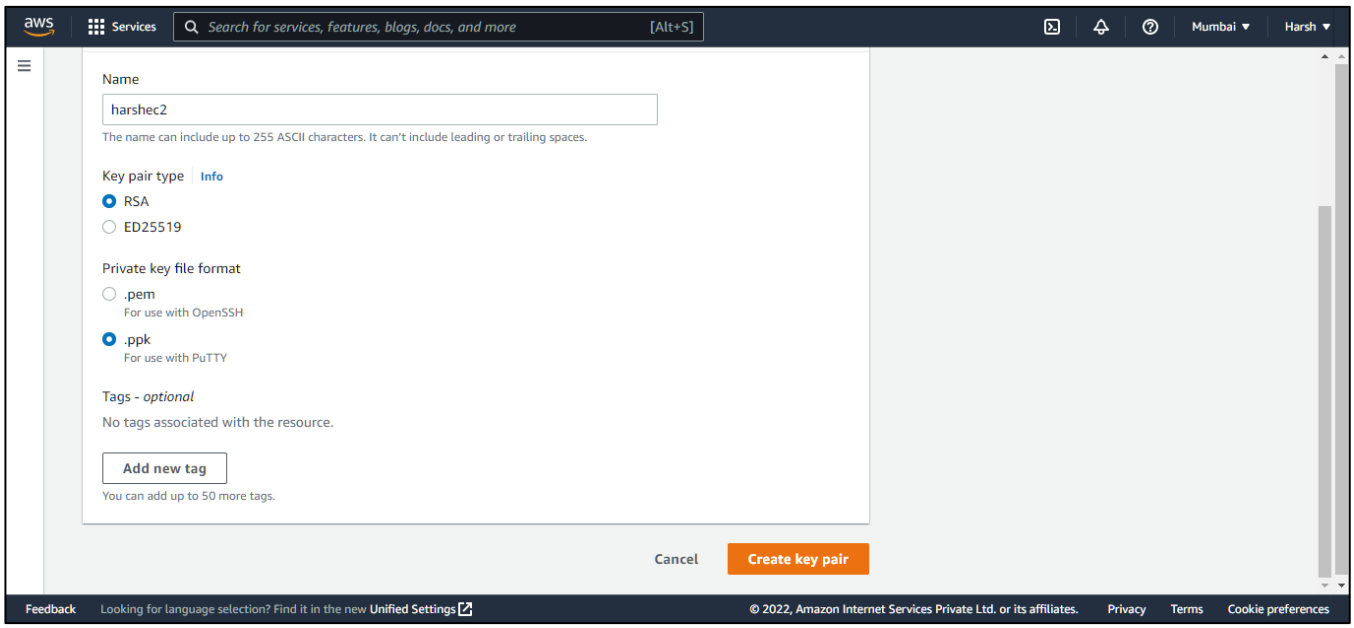
Step 2: In the Navigation pane, click Key Pairs under Network and Security Section



Step 3: On the Key Pairs page, click Create Key Pair

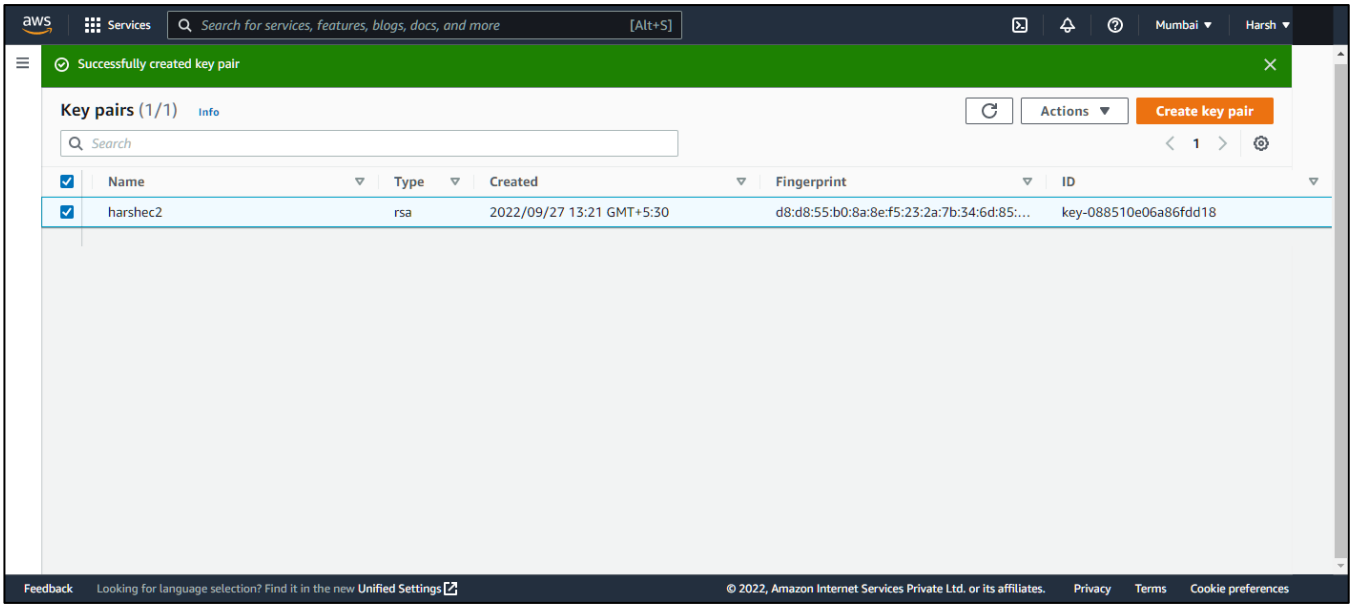


Step 4: In the Create Key Pair dialog box, enter a name for your key pair, such as, mykeypair



Step 5: Click Create key Pair

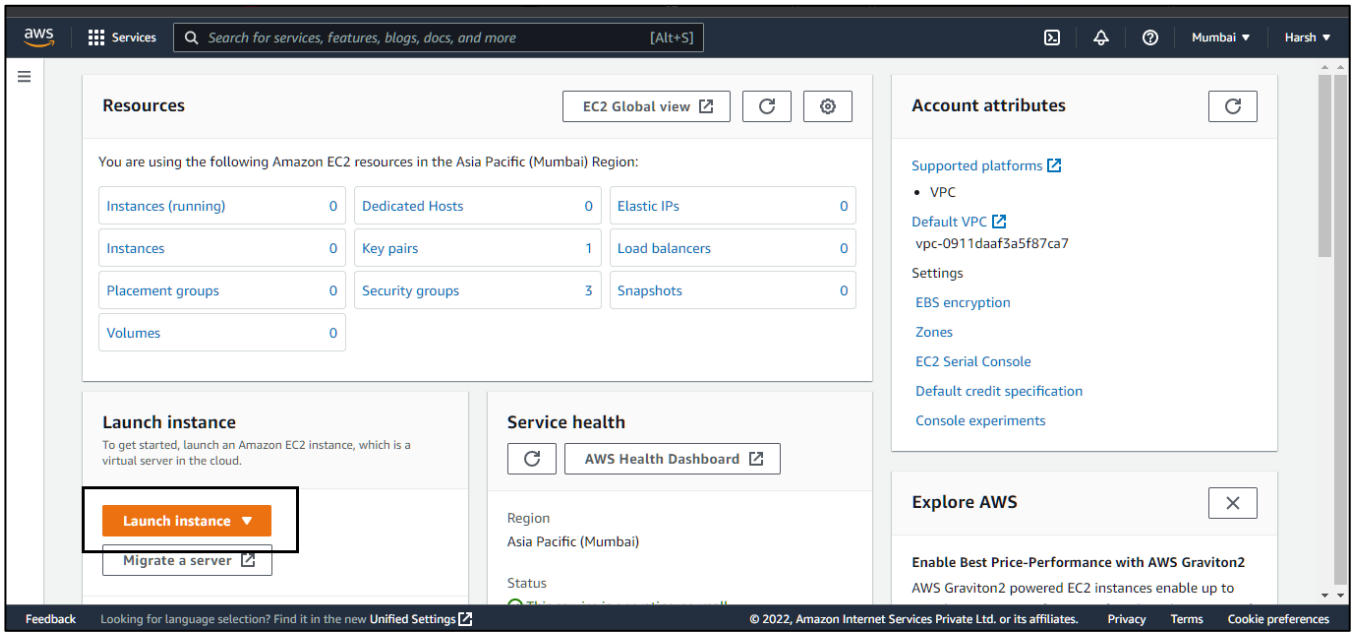
Step 6: Save the resulting PEM file in a safe location

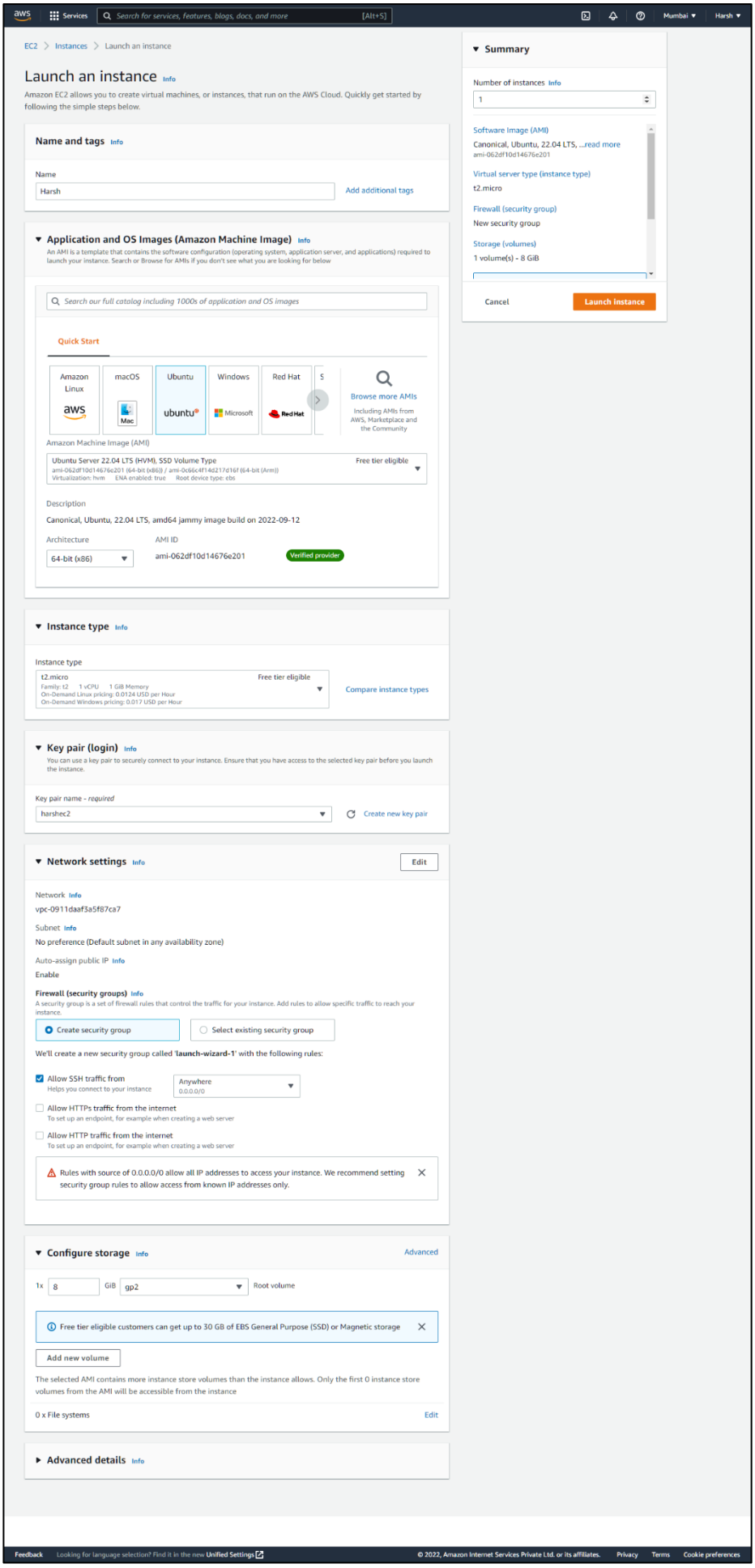


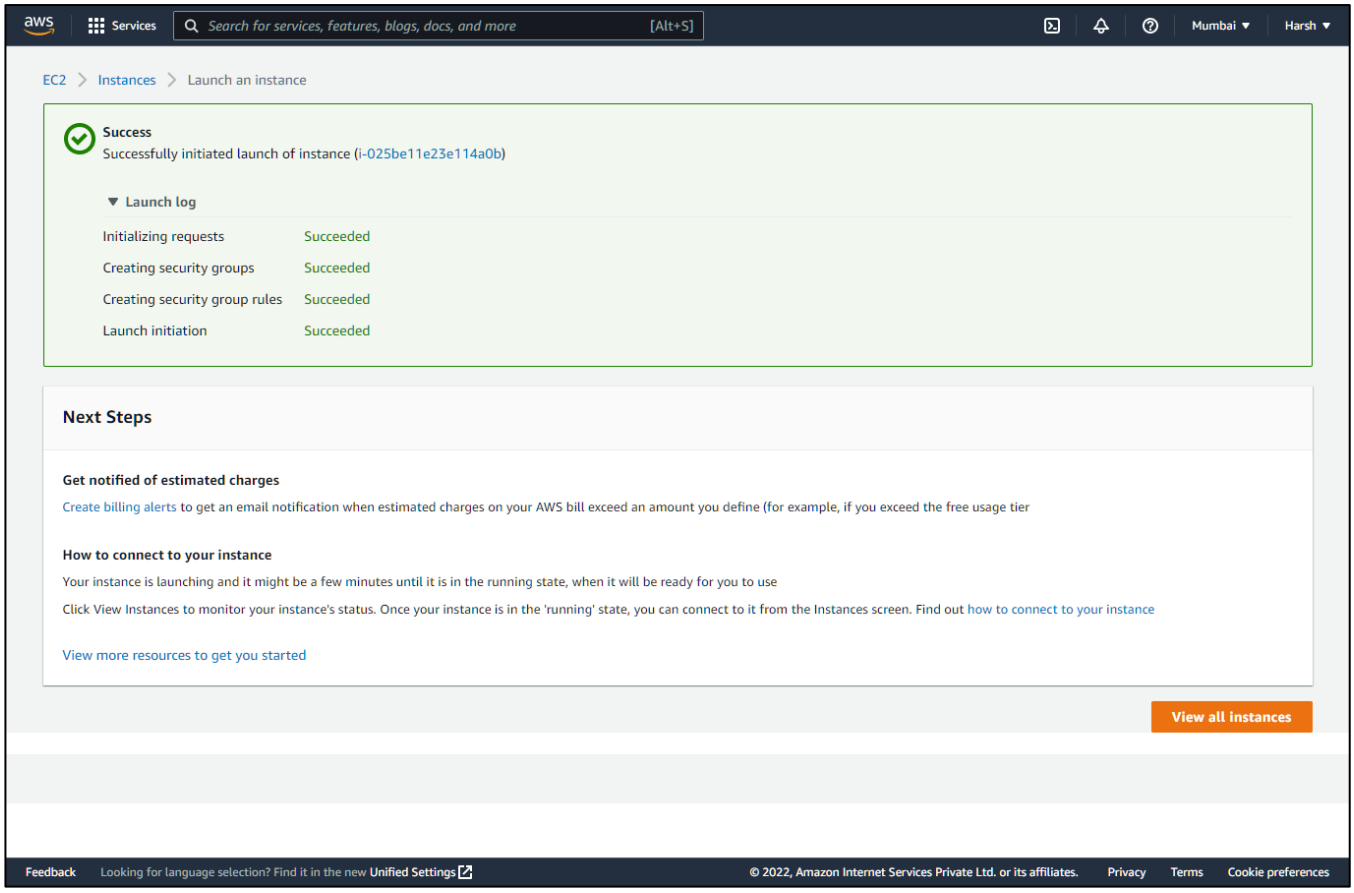
Setting up your environment on Amazon EC2

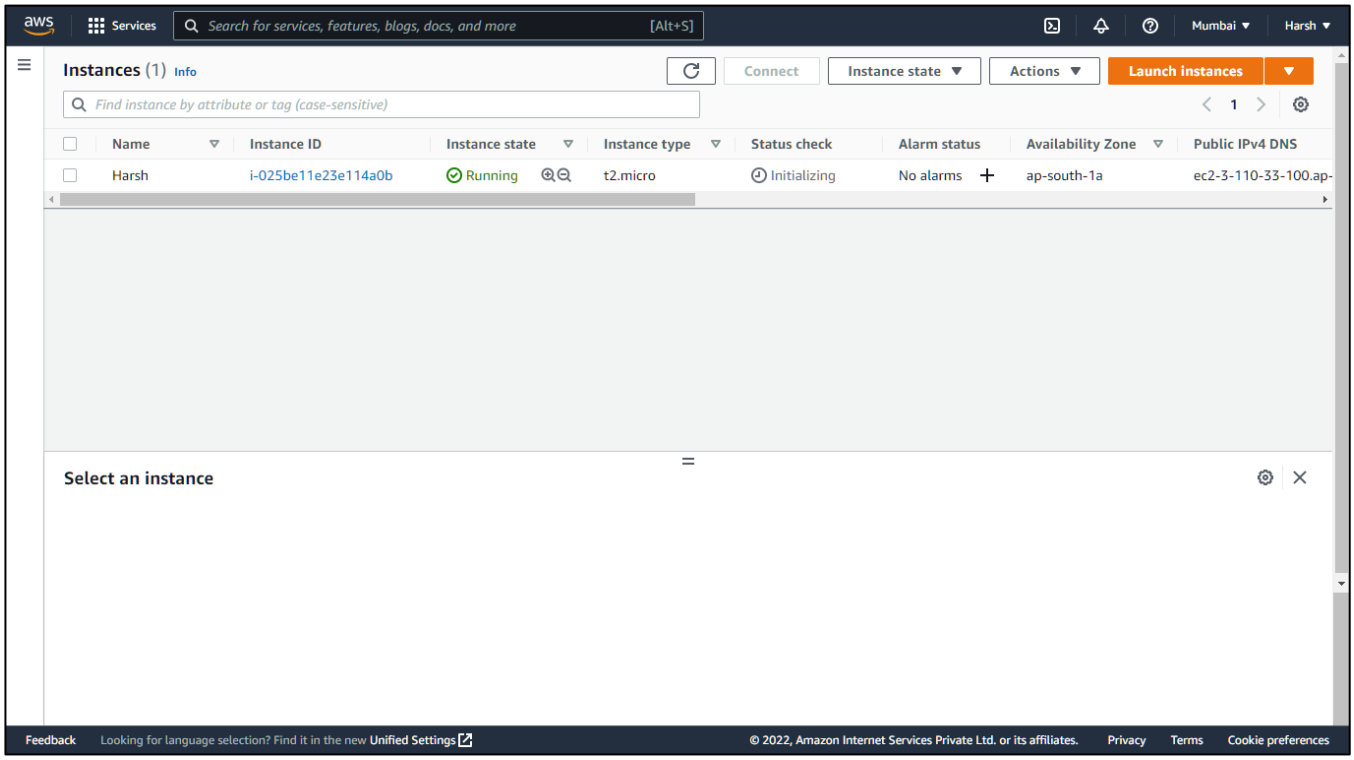
Step 1: Sign in to the AWS console and search EC2.

Step 2: Create new Instance

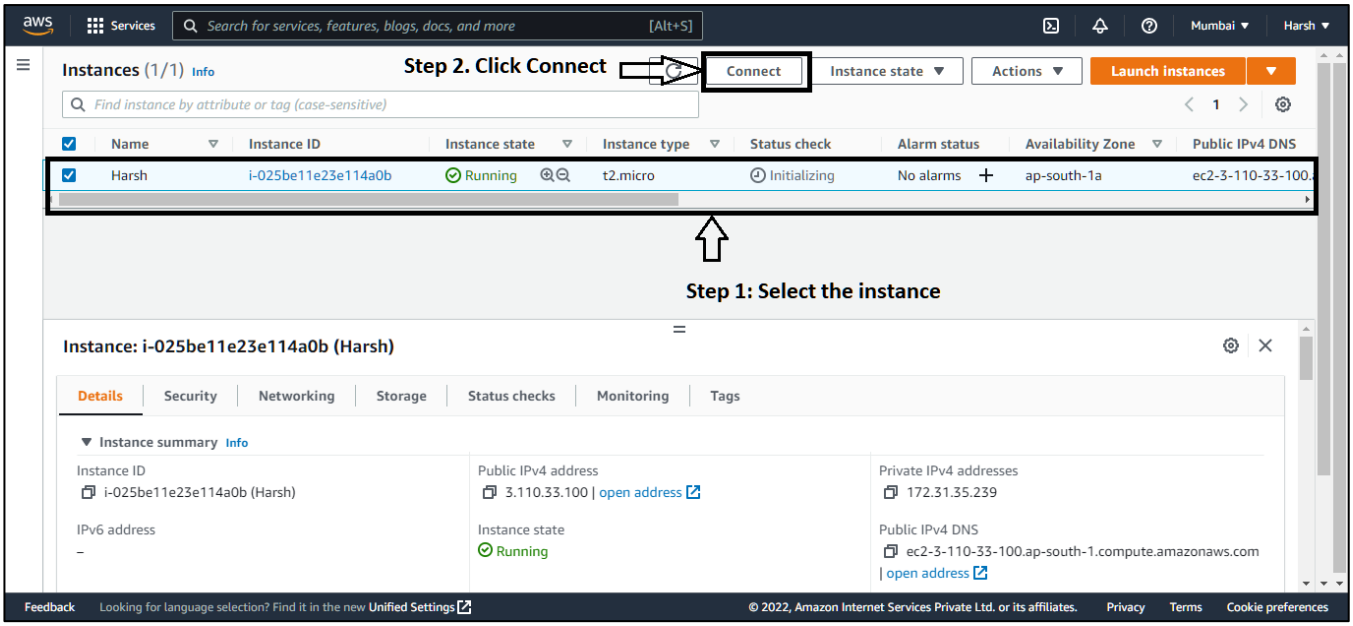


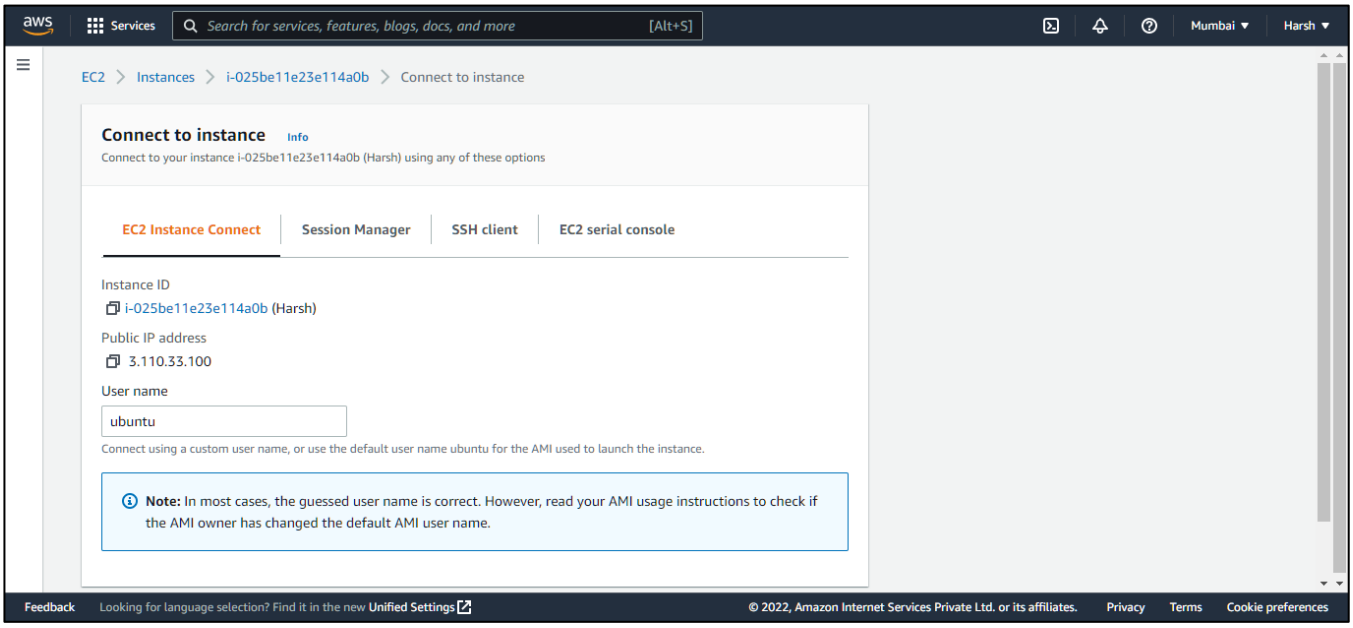

aws
Services
Search for services, features, blogs, docs, and more [Alt+S]
Mumbai
Harsh
EC2 > Instances > Launch an instance
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
Harsh
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
Free tier eligible
Description
Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2022-09-12
Architecture
64-bit (x86)
AMI ID
ami-062df10d14676e201
Verified provider
Instance type Info
Instance type
t2.micro
Free tier eligible
Compare instance types
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
harshec2
Create new key pair
Network settings Info
Edit
Network Info
vpc-0911daaf3a5f87ca7
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 instance.
Create security group
Select existing security group
We'll create a new security group called 'launch-wizard-1' with the following rules:
Allow SSH traffic from
Helps you connect to your instance
Anywhere
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
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Configure storage Info
Advanced
1x
8
GiB
gp2
Root volume
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Add new volume
The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance
0 x File systems
Edit
Advanced details Info
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-062df10d14676e201
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Cancel
Launch instance
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Internet Services Private Ltd. or its affiliates.
Privacy
Terms
Cookie preferences

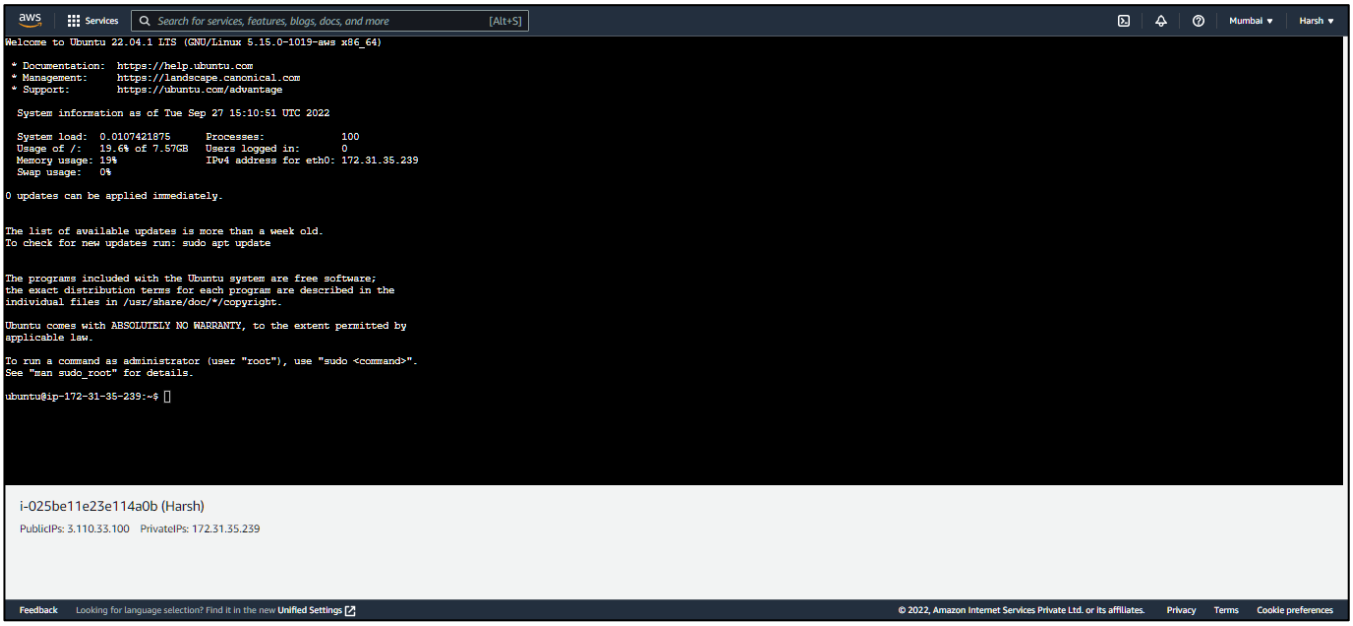




Step 3: Start the instance


Step 2. Click Connect
Connect
Instance state
Actions
Launch instances
Instances (1/1) Info
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Harsh
i-025be11e23e114a0b
Running
t2.micro
Initializing
No alarms
ap-south-1a
Step 1: Select the instance
Instance: i-025be11e23e114a0b (Harsh)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-025be11e23e114a0b (Harsh)
Public IPv4 address
3.110.33.100 | open address
Private IPv4 addresses
172.31.35.239
IPv6 address
Instance state
Running
Public IPv4 DNS
ec2-3-110-33-100.ap-south-1.compute.amazonaws.com | open address


EC2 > Instances > i-025be11e23e114a0b > Connect to instance
Connect to instance Info
Connect to your instance i-025be11e23e114a0b (Harsh) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-025be11e23e114a0b (Harsh)
Public IP address
3.110.33.100
User name
ubuntu
Connect using a custom user name, or use the default user name ubuntu for the AMI used to launch the instance.
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.


Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1019-aws x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Tue Sep 27 15:10:51 UTC 2022
System load: 0.0107421875 Processes: 100
Usage of /: 19.6% of 7.57GB Users logged in: 0
Memory usage: 19% IPv4 address for eth0: 172.31.35.239
Swap usage: 0%
0 updates can be applied immediately.
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-35-239:~$
i-025be11e23e114a0b (Harsh)
PublicIPs: 3.110.33.100 PrivateIPs: 172.31.35.239