

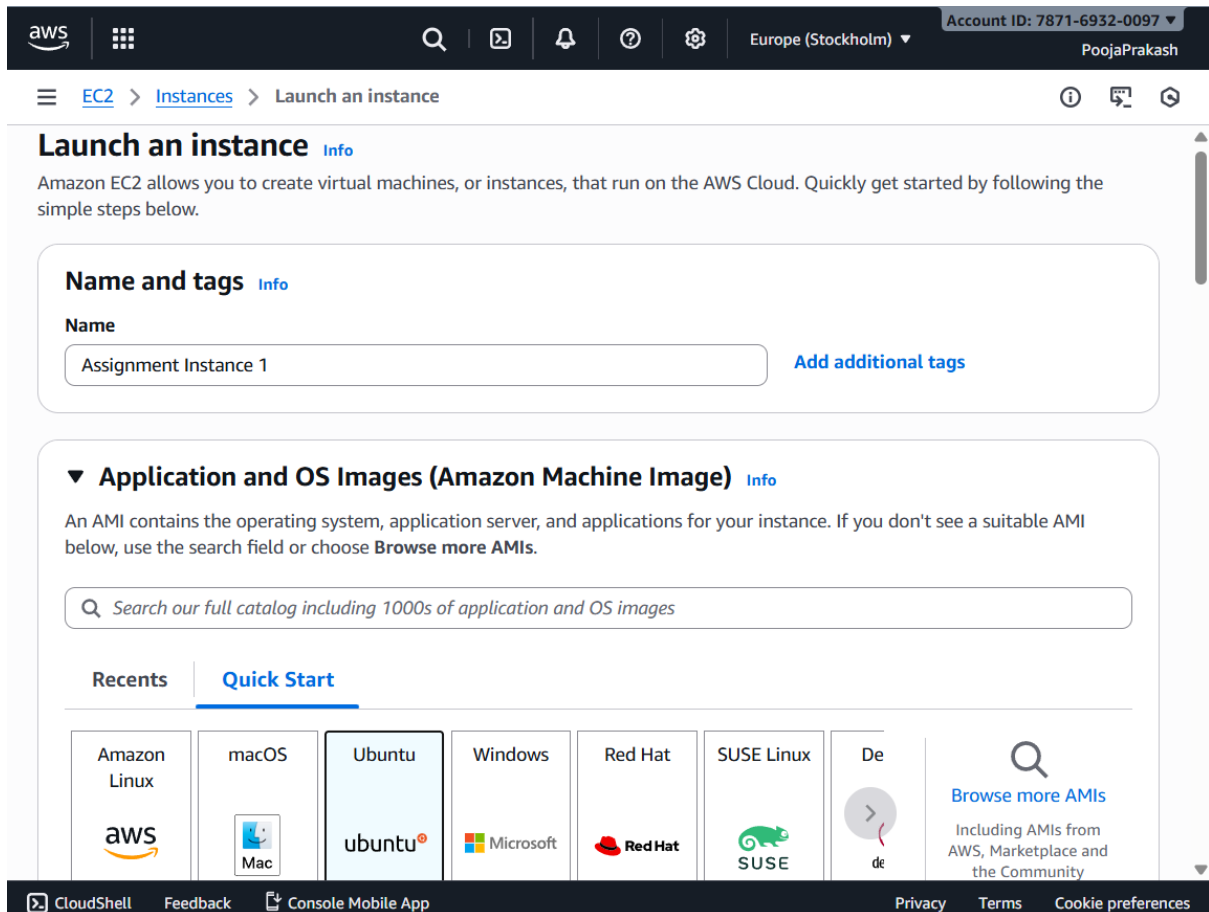
01 Assignment - AWS Cloud

Name: Pooja Prakash Belgaumkar

1. L1 - Create an AWS EC2 Ubuntu instance and connect to it securely using SSH through MobaXterm or PuTTY.

a) Method 1: Using PuTTY

- Select **Ubuntu Server** as the Amazon Machine Image.



- Create new key pair choose **.ppk** to connect with PuTTY

Create key pair

✕

Key pair name
Key pairs allow you to connect to your instance securely.

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ **RSA**
RSA encrypted private and public key pair

☐ **ED25519**
ED25519 encrypted private and public key pair

Private key file format

☐ **.pem**
For use with OpenSSH

☒ **.ppk**
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Cancel

Create key pair

aws

Q

Europe (Stockholm)

Account ID: 7871-6932-0097

PoojaPrakash

EC2

Instances

i-0e17d19f2d7d67b1a

Instance summary for i-0e17d19f2d7d67b1a (Assignment Instance 1)

Info

🔄

Connect

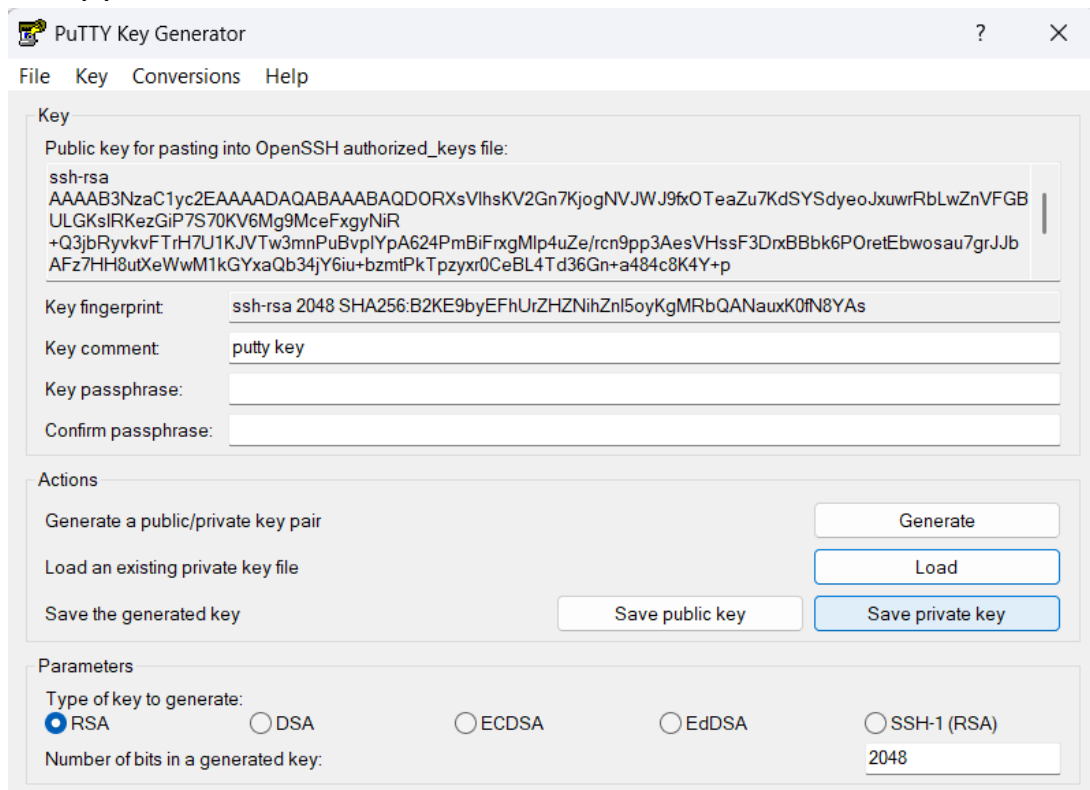
Instance state ▼

Actions ▼

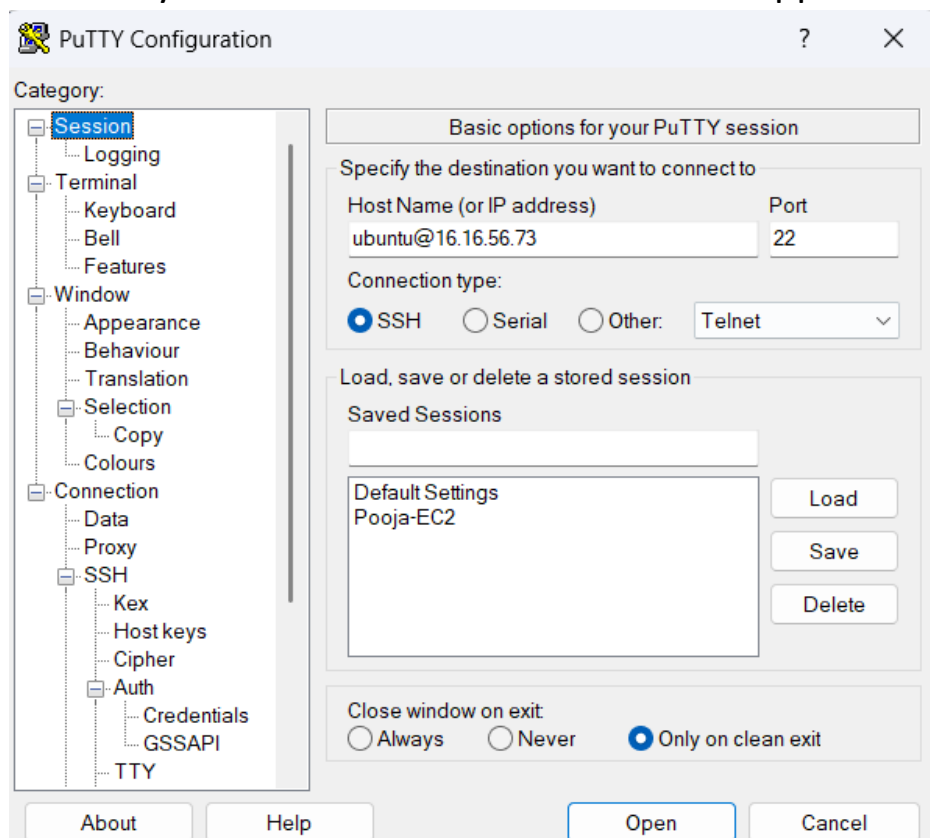
Updated less than a minute ago

Instance ID i-0e17d19f2d7d67b1a	Public IPv4 address 16.16.56.73 open address	Private IPv4 addresses 172.31.2.172
IPv6 address -	Instance state Running	Public DNS ec2-16-16-56-73.eu-north-1.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-2-172.eu-north-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-2-172.eu-north-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t3.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 16.16.56.73 [Public IP]	VPC ID vpc-04fbb5dfae5f66a87	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0cbc6ee27b50c1eda (subnet1)	

- Open PuTTYgen, click load and select downloaded .ppk file then save private key with .ppk extension



- Open PuTTY, enter Host Name as ubuntu<Public-IP> and set port to 22
- Attach private key in Connection->SSH->Auth select .ppk file and open.



- Accept the security alert Ubuntu terminal opens successfully.

```
ubuntu@ip-172-31-2-172: ~  
Using username "ubuntu".  
Authenticating with public key "putty key"  
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1015-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/pro  
  
System information as of Thu Jan  1 14:23:46 UTC 2026  
  
System load:  0.0           Temperature:   -273.1 C  
Usage of /:   25.8% of 6.71GB Processes:     113  
Memory usage: 23%          Users logged in: 0  
Swap usage:   0%           IPv4 address for ens5: 172.31.2.172  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
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-172-31-2-172:~$ whoami  
ubuntu  
ubuntu@ip-172-31-2-172:~$ uname -a  
Linux ip-172-31-2-172 6.14.0-1015-aws #15~24.04.1-Ubuntu SMP Tue Sep 23 22:44:48  
UTC 2025 x86_64 x86_64 x86_64 GNU/Linux  
ubuntu@ip-172-31-2-172:~$ ls  
ubuntu@ip-172-31-2-172:~$
```

b) Method 2: Using MobaXterm

- Launch MobaXterm, click on Session->SSH, enter public IP in Remote Host field, ubuntu as username and select downloaded .pem file

