

01 Assignment - AWS Cloud

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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.

The screenshot shows the AWS EC2 'Launch an instance' wizard. In the 'Name and tags' section, the instance is named 'Assignment Instance 1'. In the 'Application and OS Images (Amazon Machine Image)' section, the 'Quick Start' tab is selected, showing recent AMIs like Amazon Linux, macOS, and Ubuntu. A search bar at the top right says 'Search our full catalog including 1000s of application and OS images'. Below the search bar, there's a link to 'Browse more AMIs'.

- 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 | Account ID: 7871-6932-0097 ▾ | Europe (Stockholm) ▾ | PoojaPrakash

EC2 > Instances > i-0e17d19f2d7d67b1a

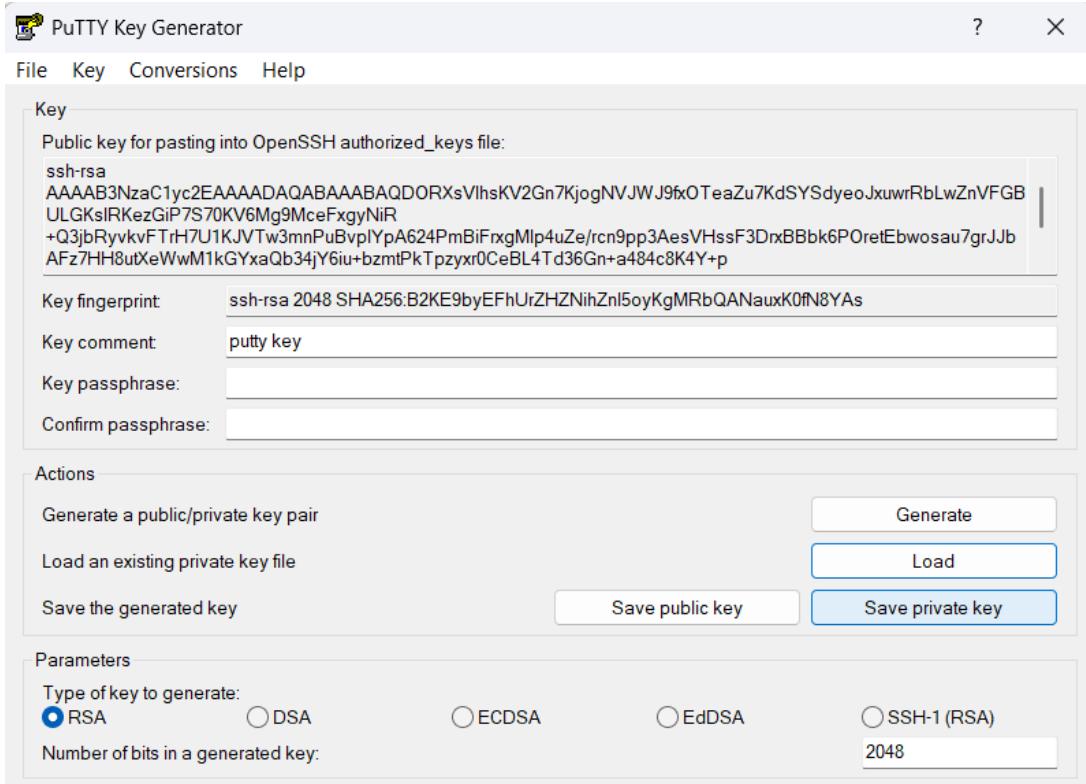
Instance summary for i-0e17d19f2d7d67b1a (Assignment Instance 1) [Info](#)

Actions ▾

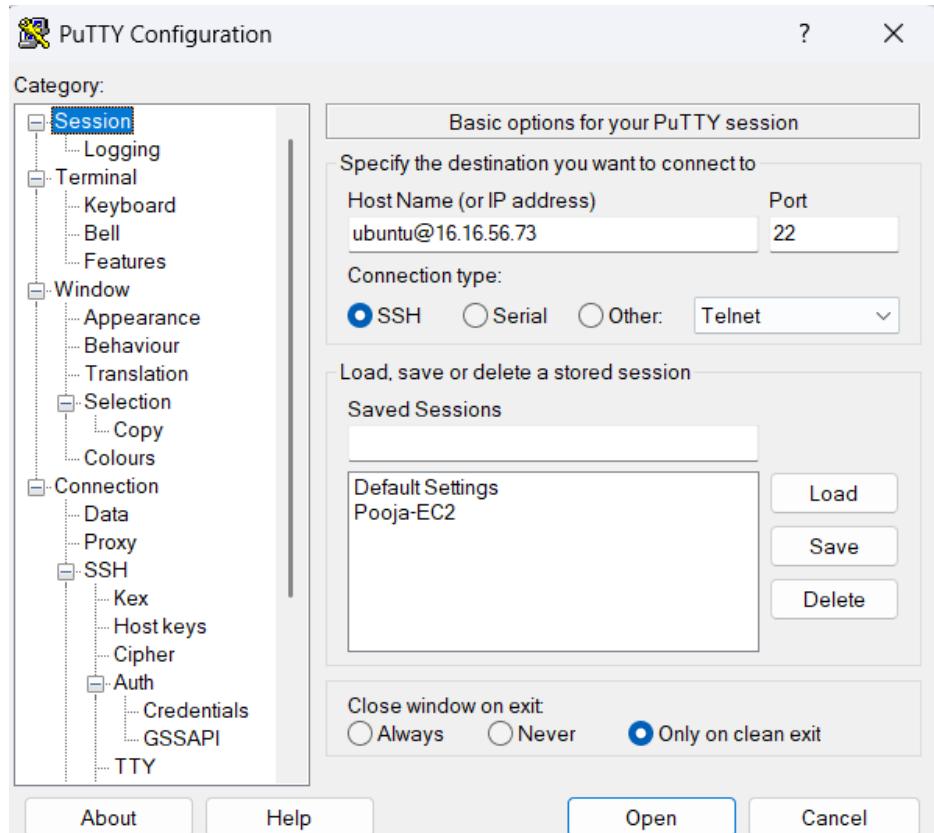
Updated less than a minute ago

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-04fbb5dfaef66a87 ↗	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

