

EC2 USING DIRECT CONNECT AND PUTTY

The image shows two screenshots of the AWS Management Console. The top screenshot is the EC2 dashboard for the us-east-1 region. The bottom screenshot is the 'Launch an instance' wizard.

Top Screenshot: AWS Management Console - EC2 Dashboard

Resources

You are using the following Amazon EC2 resources in the United States (N. Virginia) Region:

Resource	Count
Instances (running)	0
Dedicated Hosts	0
Key pairs	6
Security groups	10
Auto Scaling Groups	0
Elastic IPs	0
Load balancers	0
Snapshots	0
Capacity Reservations	0
Instances	0
Placement groups	0
Volumes	0

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#) [Migrate a server](#)

Note: Your instances will launch in the United States (N. Virginia) Region

Service health

[AWS Health Dashboard](#)

Region: United States (N. Virginia)

Status: ✔ This service is operating normally.

Zones

Zone name	Zone ID
us-east-1a	use1-az2
us-east-1b	use1-az4
us-east-1c	use1-az6

Account attributes

[Default VPC](#)
vpc-0a588ebe7aef3c841

Settings

- [Data protection and security](#)
- [Allowed AMIs](#)
- [Zones](#)
- [EC2 Serial Console](#)
- [Default credit specification](#)
- [EC2 console preferences](#)

Explore AWS

Get Up to 40% Better Price Performance
T4g instances deliver the best price performance for burstable general purpose workloads in Amazon EC2. [Learn more](#)

Save up to 90% on EC2 with Spot Instances
Optimize price-performance by combining EC2 purchase options in a single EC2 ASG. [Learn more](#)

Amazon GuardDuty Malware Protection
GuardDuty now provides agentless malware detection in Amazon EC2 & EC2 container workloads. [Learn more](#)

Bottom Screenshot: Launch an instance

Launch an instance

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

Name: [Add additional tags](#)

Application and OS Images (Amazon Machine Image)

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.

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux Debian

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type
ami-04b4f1a9c54c11d0 (64-bit (x86)) / ami-0a7a4e87939439934 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Summary

Number of instances:

Software Image (AMI): -

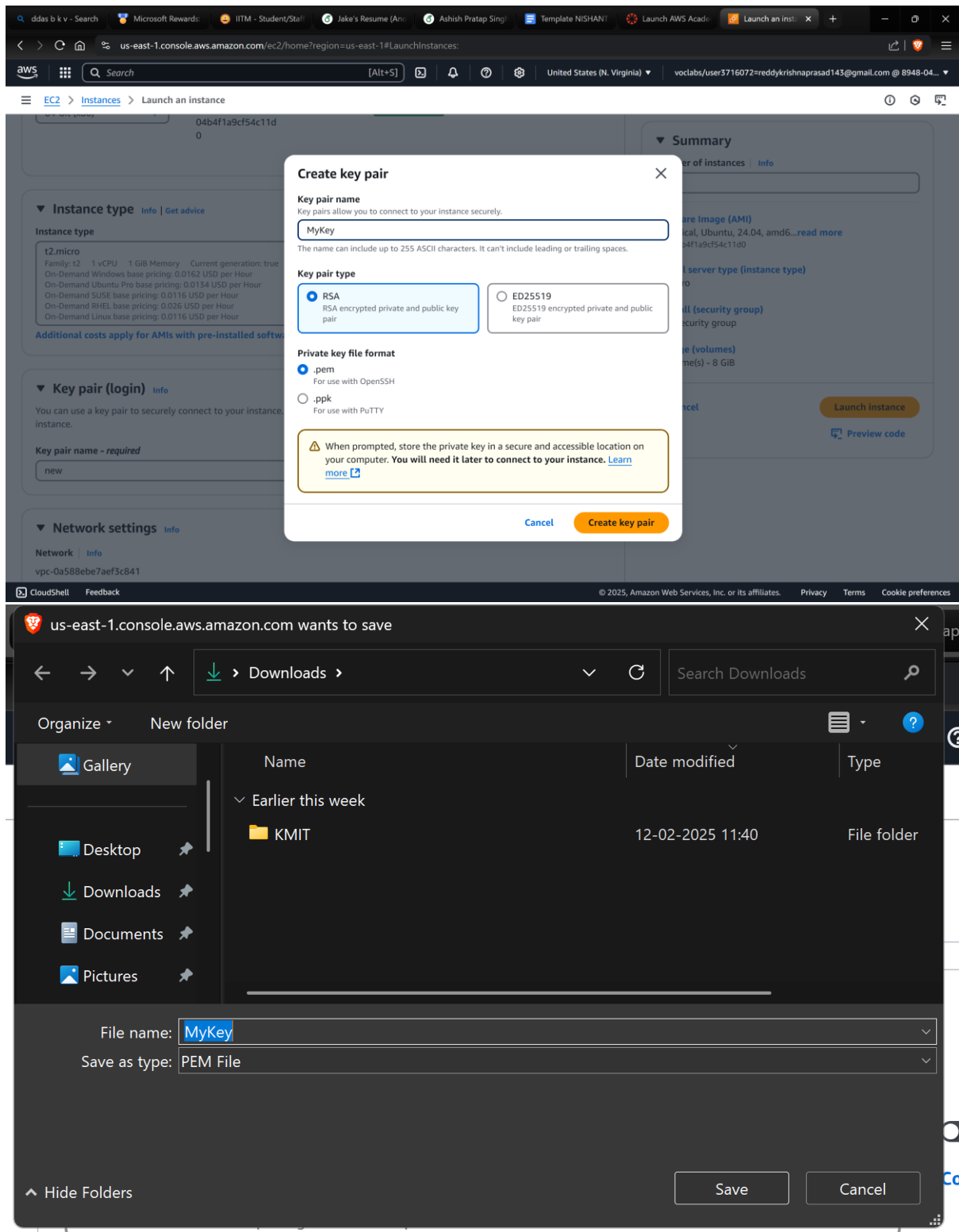
Virtual server type (instance type): t2.micro

Firewall (security group): -

Storage (volumes): -

[Cancel](#) [Launch instance](#) [Preview code](#)

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▼ Instance type [Info](#) | [Get advice](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

☐ All generations

[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

▼ 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*

MyKey



[Create new key pair](#)

▼ Network settings [Info](#)

[Edit](#)

Network [Info](#)

vpc-0a588ebe7aef3c841

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

CloudShell Feedback

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Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

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-10' 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



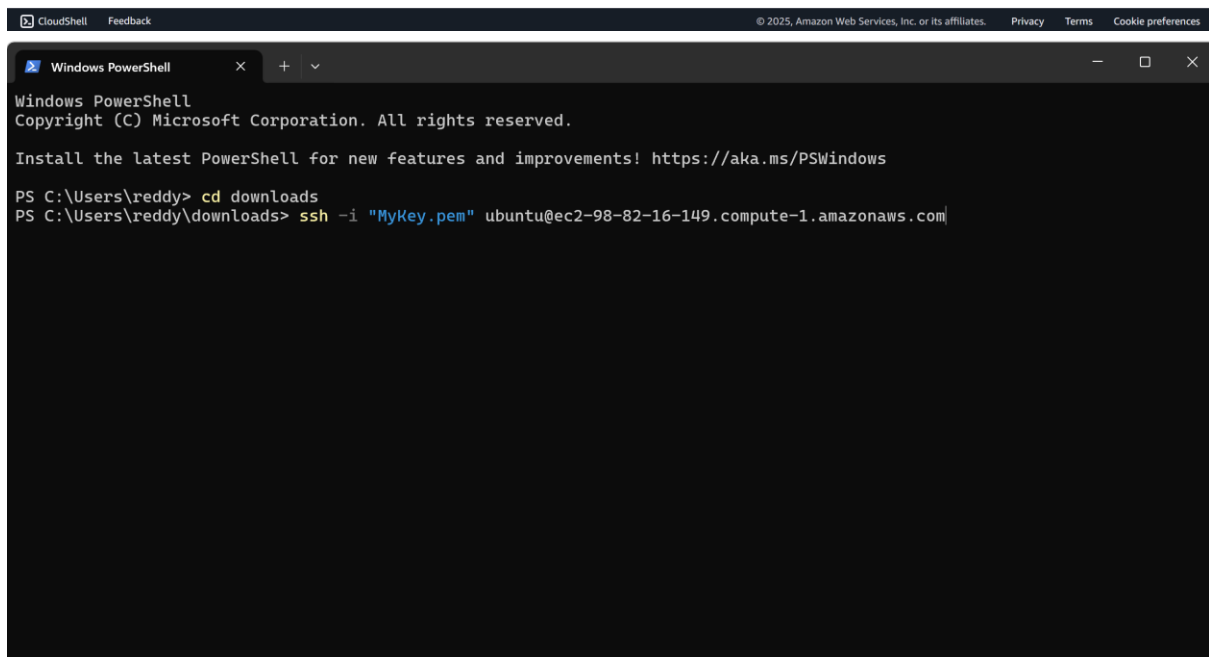
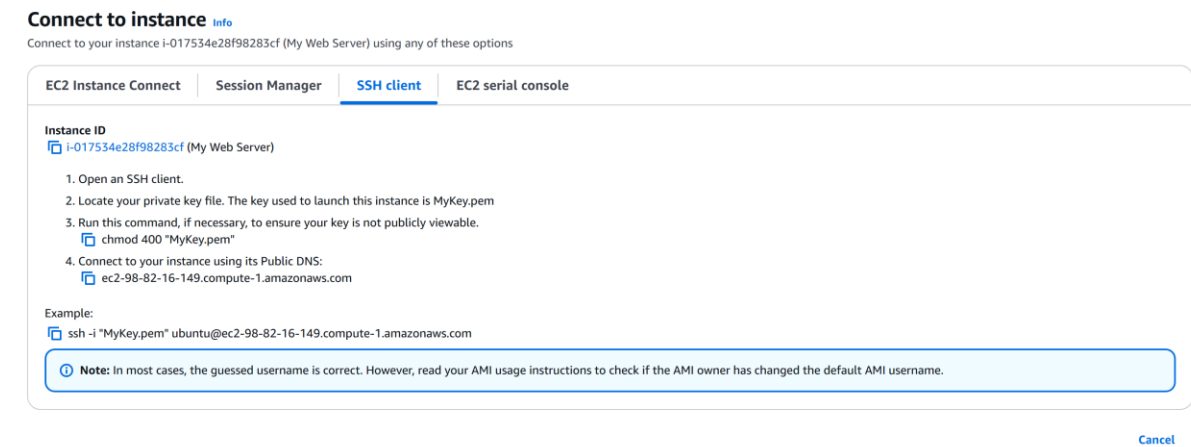
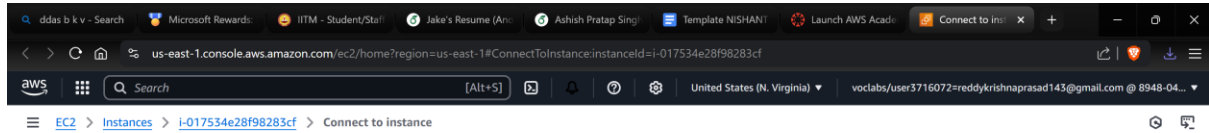
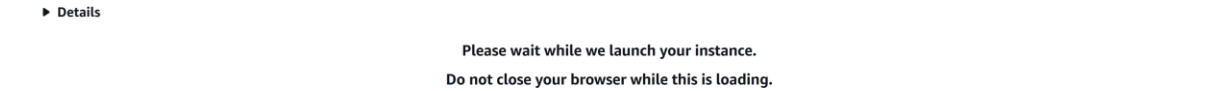
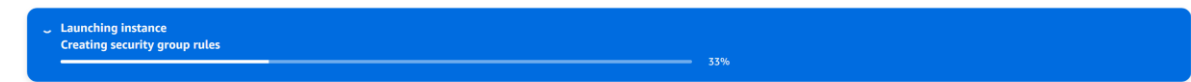
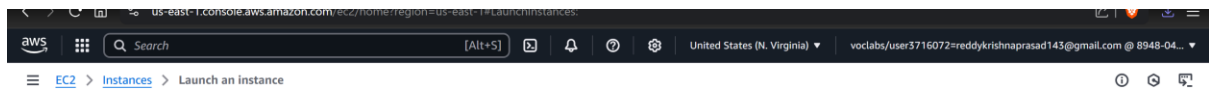
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.



▼ Configure storage [Info](#)

[Advanced](#)

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EC2 USING DIRECT CONNECT AND PUTTY

```
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-172-31-85-189:~$
```

```
ubuntu@ip-172-31-85-189:~$ sudo apt update && apt upgrade  
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease  
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]  
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]  
Get:7 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [617 kB]  
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]  
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]  
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]  
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]  
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]  
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]  
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [865 kB]  
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [196 kB]  
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [150 kB]  
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1014 kB]  
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [253 kB]  
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [363 kB]  
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [19.9 kB]  
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [654 kB]  
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [128 kB]  
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]  
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [16.3 kB]  
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3944 B]  
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]  
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 B]  
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
```

```
ubuntu@ip-172-31-85-189: ~
```

```
ubuntu@ip-172-31-85-189:~$ sudo apt install nano  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
nano is already the newest version (7.2-2ubuntu0.1).  
nano set to manually installed.  
0 upgraded, 0 newly installed, 0 to remove and 95 not upgraded.  
ubuntu@ip-172-31-85-189:~$ nano |
```

EC2 USING DIRECT CONNECT AND PUTTY

ubuntu@ip-172-31-85-189: ~

GNU nano 7.2

hello.c *

Sample text

Help

Exit

Write Out

Read File

Where Is

Replace

Cut

Paste

Execute

Justify

Location

Go To Line

Undo

Redo

Set Mark

Copy

Connect to instance

Info

Connect to your instance i-017534e28f98283cf (My Web Server) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-017534e28f98283cf (My Web Server)

Connection Type

Connect using EC2 Instance Connect

Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.

Public IPv4 address

98.82.16.149

IPv6 address

Connect using EC2 Instance Connect Endpoint

Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

ubuntu

Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

Connect

Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-aws x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/pro

System information as of Fri Feb 14 04:49:59 UTC 2025

System load: 0.0

Processes: 106

Usage of /: 28.3% of 6.71GB

Users logged in: 0

Memory usage: 21%

IPv4 address for enX0: 172.31.85.189

Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

95 updates can be applied immediately.

27 of these updates are standard security updates.

To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.

See https://ubuntu.com/esm or run: sudo pro status

Last login: Fri Feb 14 04:42:54 2025 from 27.59.62.95

ubuntu@ip-172-31-85-189:~\$ sudo apt update

i-017534e28f98283cf (My Web Server)

PublicIPs: 98.82.16.149 PrivateIPs: 172.31.85.189

CloudShell

Feedback

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Privacy

Terms

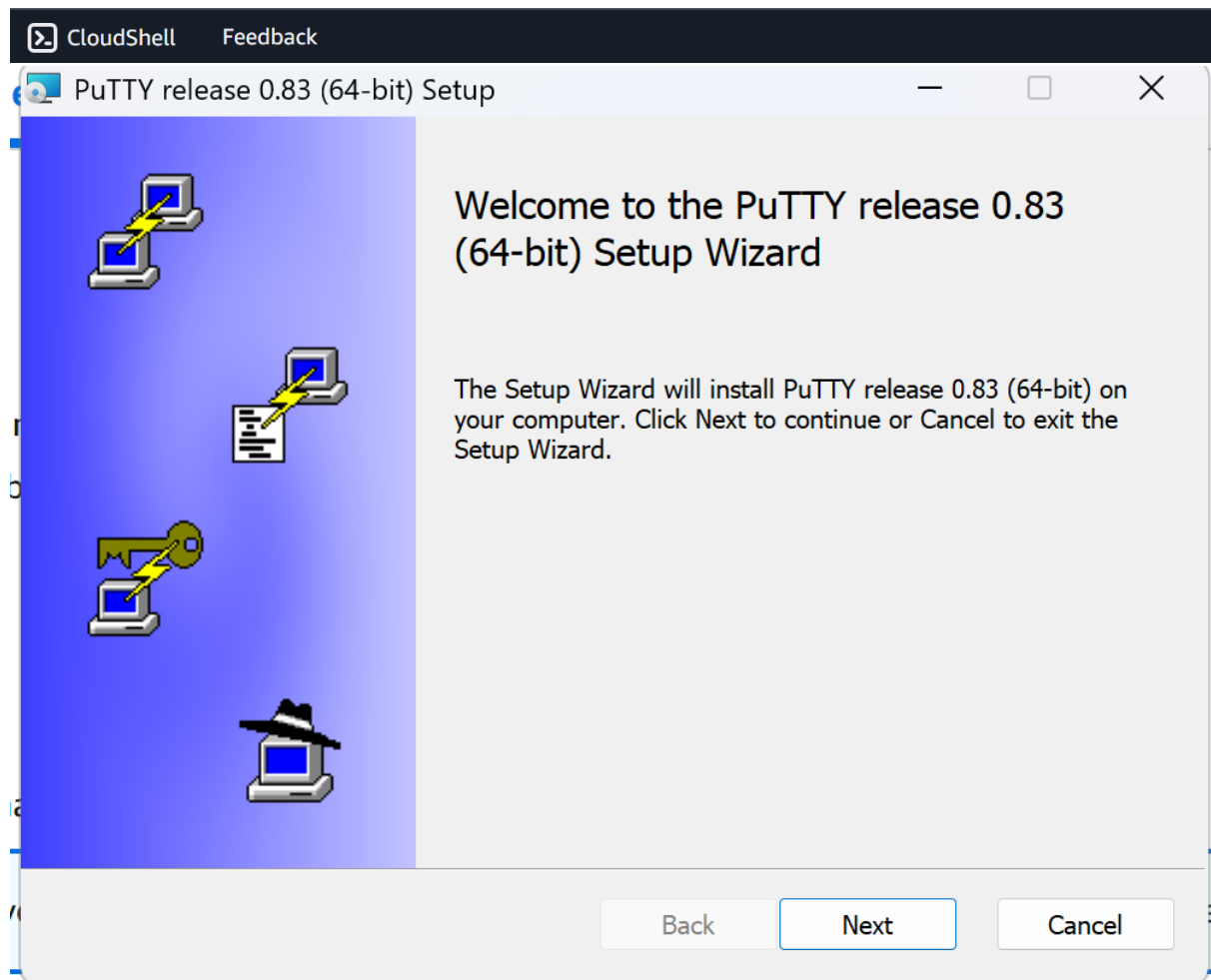
Cookie preferences

EC2 USING DIRECT CONNECT AND PUTTY

```
buntu@ip-172-31-85-189:~$ sudo apt install git -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.2).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 95 not upgraded.
buntu@ip-172-31-85-189:~$
```

i-017534e28f98283cf (My Web Server)

PublicIPs: 98.82.16.149 PrivateIPs: 172.31.85.189



EC2 USING DIRECT CONNECT AND PUTTY

aws

Search

[Alt+S]

United States (N. Virginia)

EC2

Instances

Launch an instance

Name and tags

Info

Name

With putty

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

Q Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux

aws

macOS

Mac

Ubuntu

ubuntu

Windows

Microsoft

Red Hat

Red Hat

SUSE Linux

SUSE

Debian

debian

Q

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-04b4f1a9cf54c11d0 (64-bit (x86)) / ami-0a7a4e87939439934 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

CloudShell

Feedback

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EC2 USING DIRECT CONNECT AND PUTTY

Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

putty

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

EC2 USING DIRECT CONNECT AND PUTTY

Success
Successfully initiated launch of instance (i-0e3fa6a961032f24f)

► Launch log

Next Steps

Q What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
[Create EBS snapshot policy](#)

Manage detailed monitoring
Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period.
[Manage detailed monitoring](#)

Create Load Balancer
Create an application, network gateway or classic Elastic Load Balancer
[Create Load Balancer](#)

Create AWS budget
AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.
[Create AWS budget](#)

Manage CloudWatch alarms
Create or update Amazon CloudWatch alarms for the instance.
[Manage CloudWatch alarms](#)

PuTTY Configuration

Category:

- Session
- Logging
- Terminal
- Keyboard
- Bell
- Features
- Window
- Appearance
- Behaviour
- Translation
- Selection
- Colours
- Connection
- Data
- Proxy
- SSH
- Serial
- Telnet
- Rlogin
- SUPDUP

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address) Port
236-144-108.compute-1.amazonaws.com 22

Connection type:
☒ SSH ☐ Serial ☐ Other: Telnet

Load, save or delete a stored session

Saved Sessions

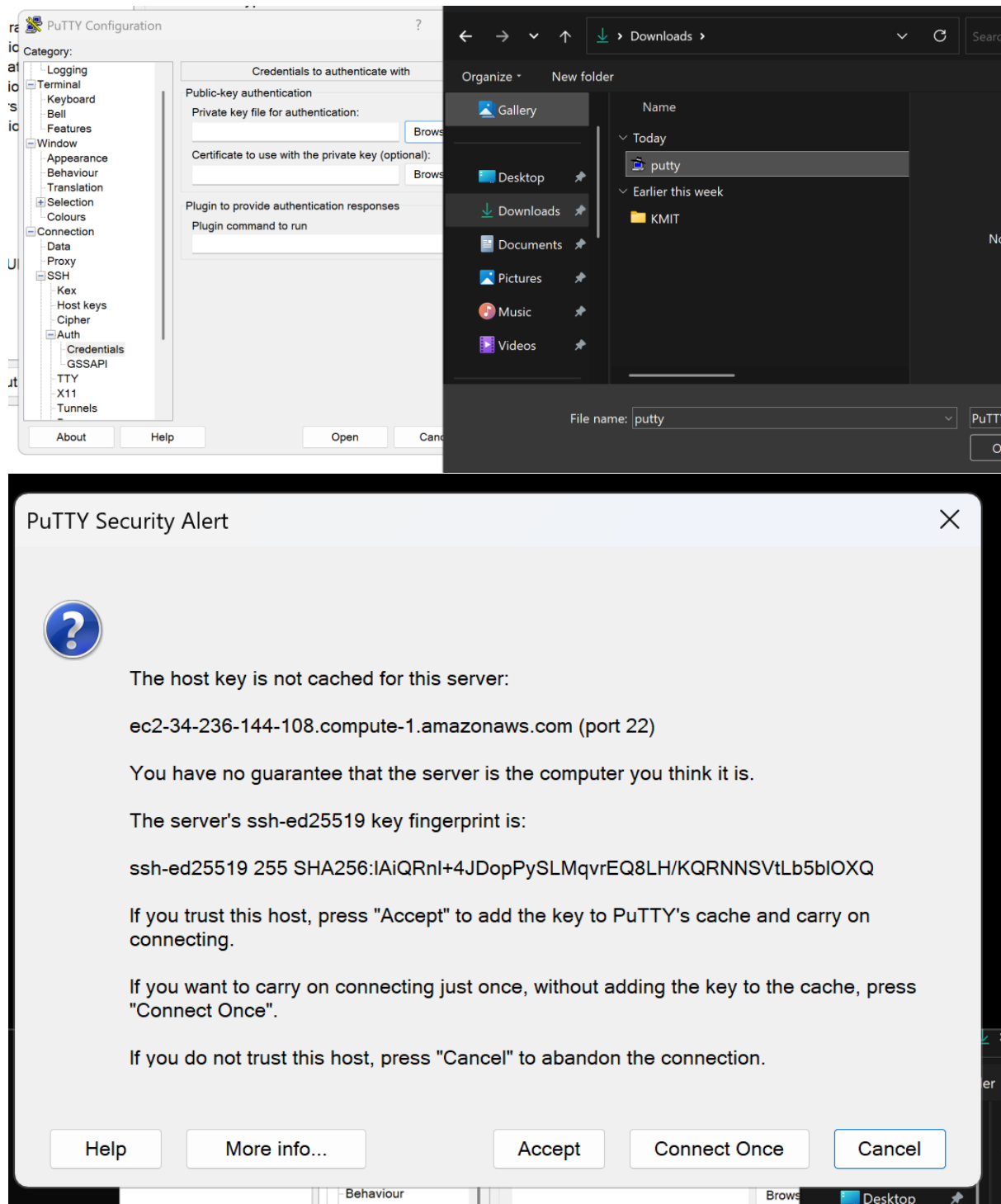
Default Settings

Load Save Delete

Close window on exit:
☐ Always ☐ Never ☒ Only on clean exit

About Help Open Cancel

EC2 USING DIRECT CONNECT AND PUTTY



EC2 USING DIRECT CONNECT AND PUTTY

```
ubuntu@ip-172-31-18-128: ~  
Using username "ubuntu".  
Authenticating with public key "putty"  
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/pro  
  
System information as of Fri Feb 14 05:00:45 UTC 2025  
  
System load: 0.02          Processes:            106  
Usage of /:  24.9% of 6.71GB Users logged in:        0  
Memory usage: 21%          IPv4 address for enX0: 172.31.18.128  
Swap usage:  0%  
  
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-172-31-18-128:~$ sudo apt update  
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease  
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
0% [4 InRelease 14.2 kB/126 kB 11%]  
  
ubuntu@ip-172-31-18-128:~$ sudo apt install docker.io -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  bridge-utils contained dns-root-data dnsmasq-base pigz runc ubuntu-fan  
Suggested packages:  
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debotstrap docker-buildx docker-compose-v2 docker-doc rinse zfs-fuse | zfsutils  
The following NEW packages will be installed:  
  bridge-utils contained dnsmasq-base docker.io pigz runc ubuntu-fan  
0 upgraded, 8 newly installed, 0 to remove and 95 not upgraded.  
Need to get 78.6 MB of archives.  
After this operation, 302 MB of additional disk space will be used.  
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]  
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 bridge-utils amd64 1.7.1-lubuntu2 [33.9 kB]  
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 runc amd64 1.1.12-0ubuntu3.1 [8599 kB]  
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 containedr amd64 1.7.24-0ubuntu1-24.04.1 [37.0 MB]  
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dns-root-data all 2023112702-willsync1 [4450 B]  
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dnsmasq-base amd64 2.90-2build2 [375 kB]  
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 docker.io amd64 26.1.3-0ubuntu1-24.04.1 [32.4 MB]  
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]  
Fetched 78.6 MB in 2s (50.2 MB/s)  
Preconfiguring packages ...  
Selecting previously unselected package pigz.  
(Reading database ... 70610 files and directories currently installed.)  
Preparing to unpack .../0-pigz_2.8-1_amd64.deb ...  
Unpacking pigz (2.8-1) ...  
Selecting previously unselected package bridge-utils.  
Preparing to unpack .../1-bridge-utils_1.7.1-lubuntu2_amd64.deb ...  
Unpacking bridge-utils (1.7.1-lubuntu2) ...  
Selecting previously unselected package runc.  
Preparing to unpack .../2-runc_1.1.12-0ubuntu3.1_amd64.deb ...  
Unpacking runc (1.1.12-0ubuntu3.1) ...  
Selecting previously unselected package containedr.  
Preparing to unpack .../3-containedr_1.7.24-0ubuntu1-24.04.1_amd64.deb ...  
Unpacking containedr (1.7.24-0ubuntu1-24.04.1) ...  
Selecting previously unselected package dns-root-data.  
Preparing to unpack .../4-dns-root-data_2023112702-willsync1_all.deb ...  
Unpacking dns-root-data (2023112702-willsync1) ...  
Selecting previously unselected package dnsmasq-base.  
Preparing to unpack .../5-dnsmasq-base_2.90-2build2_amd64.deb ...  
Unpacking dnsmasq-base (2.90-2build2) ...  
Selecting previously unselected package docker.io.  
Preparing to unpack .../6-docker.io_26.1.3-0ubuntu1-24.04.1_amd64.deb ...  
Unpacking docker.io (26.1.3-0ubuntu1-24.04.1) ...  
Selecting previously unselected package ubuntu-fan.  
Preparing to unpack .../7-ubuntu-fan_0.12.16_all.deb ...  
Unpacking ubuntu-fan (0.12.16) ...
```