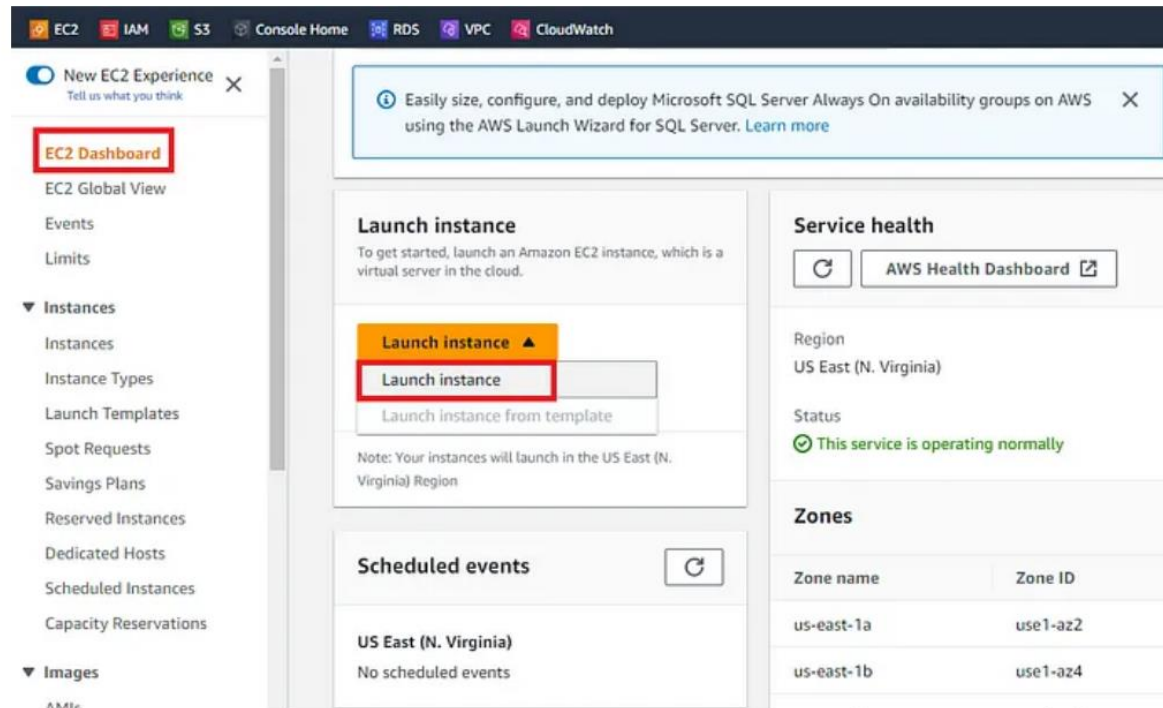


EKS labs

Log in to the Amazon management console, open EC2 Dashboard, click on the Launch Instance drop-down list, and click on Launch Instance as shown below:



Once the **Launch an instance** window opens, provide the name of your EC2 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

EKS_Setup_Server


[Add additional tags](#)


For this demo, we will select Amazon Linux 2 AMI which is free tier eligible.


▼ **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


Quick Start



Amazon Linux
aws


macOS


Ubuntu


Windows


Red Hat


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

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type
ami-06a0cd9728546d178 (64-bit (x86)) / ami-09e51988f56677f44 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible ▼

Choose an Instance Type. Here you can select the type of machine, number of vCPUs, and memory that you want to have.
Select **t2.micro** which is free-tier eligible.

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

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.0716 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible ▼

☐ All generations
[Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

Create new Keypair

▼ 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*

Select



Create new key pair

Key pair (creating for putty)

Key pair name

Key pairs allow you to connect to your instance securely.

devops_amit

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

Cancel

Create key pair

Note: It will download one ppk file

Go to network settings edit option and

▼ Network settings [Info](#)

Edit

Network [Info](#)

-

Subnet [Info](#)

-

Auto-assign public IP [Info](#)

-

Select VPC, subnet and make auto-assign public ip enable

▼ Network settings [Info](#)

VPC - *required* [Info](#)

vpc-0e10bf60f94d6c315 (amit-vpc)
10.0.0.0/16

↻

Subnet [Info](#)

subnet-058f7dbbed00a7c09
VPC: vpc-0e10bf60f94d6c315 Owner: 883308508227
Availability Zone: us-east-1a IP addresses available: 251 CIDR: 10.0.0.0/24

amit-subnet-01

↻

Create new subnet [↗](#)

Auto-assign public IP [Info](#)

Enable

▼

Create a Security group

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

Security group name - *required*

launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and . _ - / () # , @ [] + = & ; {} ! \$ *

Description - *required* [Info](#)

launch-wizard-1 created 2024-04-09T10:06:44.243Z

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Remove

Type [Info](#)

ssh

Protocol [Info](#)

TCP

Port range [Info](#)

22

Rest of the settings we will keep them at default and go ahead and click on **Launch Instance**

The screenshot shows the 'Configure storage' section of the AWS EC2 instance configuration page. It includes a table for storage volumes with columns for quantity, size, type, and encryption. A 'Free tier' banner is visible. The 'Advanced details' section is partially visible at the bottom. On the right, a 'New security group' section shows the 'launch-wizard-1' security group. A 'Free tier' banner is also present on the right. The 'Launch instance' button is highlighted in orange.

Quantity	Size (GiB)	Type	Encryption
1x	8	gp2	Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GiB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

0 x File systems

Advanced details [Info](#)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

Review commands

On the next screen you can see a success message after the successful creation of the EC2 instance, click on **Connect to instance** button:

[EC2](#) > [Instances](#) > Launch an instance

🟢 **Success**

Successfully initiated launch of instance [\(i-08ad9766bdb59bf8d\)](#)

▶ Launch log

Next Steps

🔍 What would you like to do next with this instance, for example "create billing alerts"

< 1 2 3 4 5 6 7 8 >

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](#) ↗

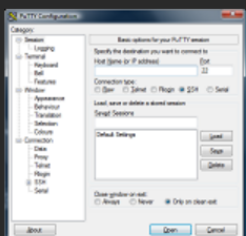
[Create a new RDS database](#) ↗

Noted Down the ip address and user name

EC2 Instance Connect	Session Manager	SSH client	EC2 serial console
<p>Instance ID</p> <p> i-08ad9766bdb59bf8d (eks_server)</p>			
<p>Connection Type</p> <div> <div> <input checked="" type="radio"/> Connect using EC2 Instance Connect Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address. </div> <div> <input type="radio"/> Connect using EC2 Instance Connect En Connect using the EC2 Instance Connect brow: client, with a private IPv4 address and a VPC e </div> </div>			
<p>Public IP address</p> <p> 54.89.202.42</p>			
<p>Username</p> <p>Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default u: user.</p> <p> ec2-user </p>			

Download Putty from putty.org

 putty.org



Download PuTTY

PuTTY is an SSH and telnet client, developed orig Windows platform. PuTTY is open source software that is developed and supported by a group of volunteers.

Download PuTTY

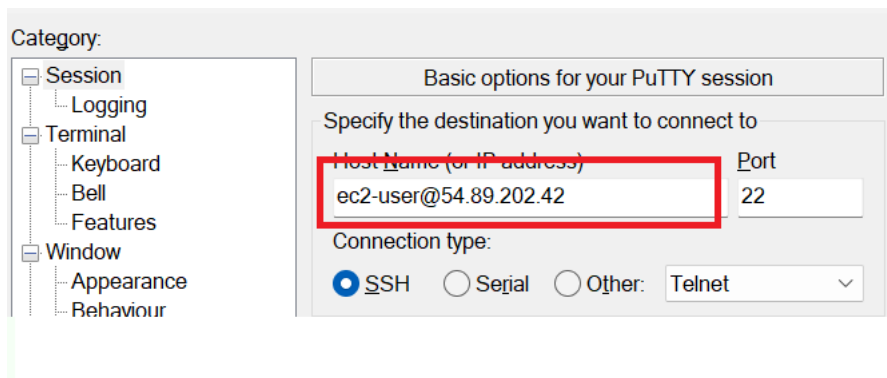
Alternative binary files

The installer packages above will provide versions of all of these (except PuTTYtel and pterm), but you can down (Not sure whether you want the 32-bit or the 64-bit version? Read the [FAQ entry](#).)

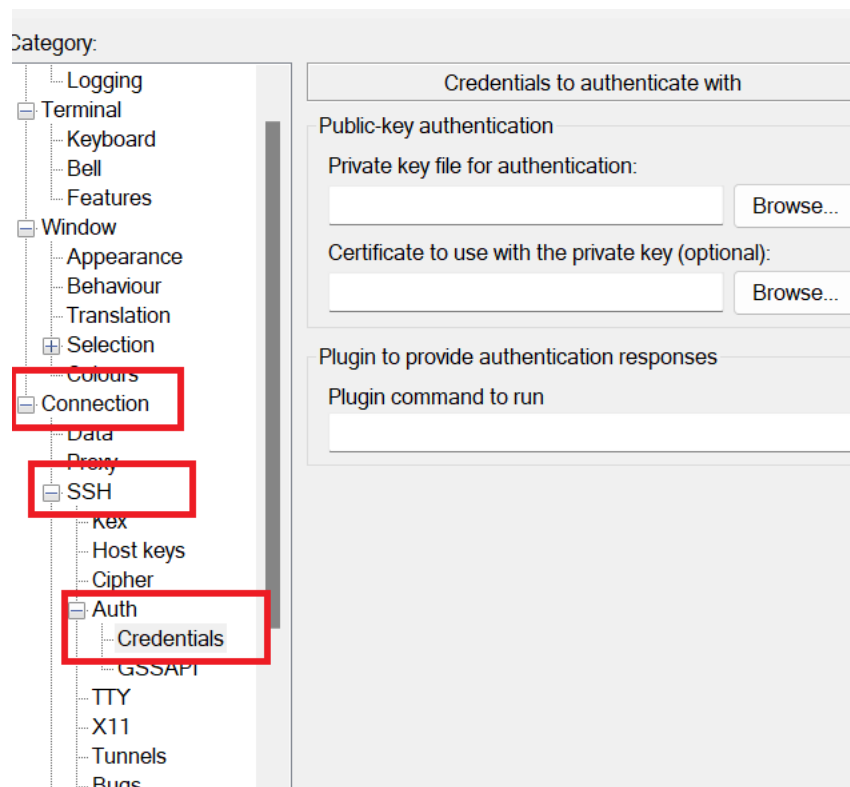
putty.exe (the SSH and Telnet client itself)

64-bit x86:	putty.exe	(signature)
64-bit Arm:	putty.exe	(signature)
32-bit x86:	putty.exe	(signature)

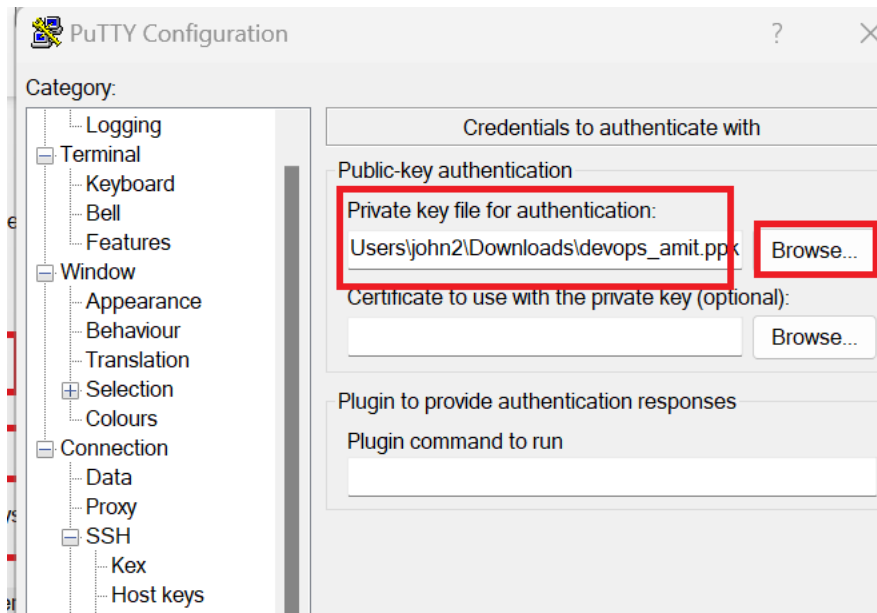
Open putty.exe and provide details ec2-user@<public ip>



Go to putty Auth ->Credentials session



Browse and Map the ppk file which we generated in key-pair section



Click on Open

