

Aws console

Step 1 :To create vpc

In your vpc

Select create vpc

[]Select vpc only

[] in ipv4 CIDR **better** to use 10.0.0.0/16

ex:172.15.0.0/16 (here we use class B network means 178.16.0.0. to 178.31.0.0 don't use 172.17 bcz it is docker default ip)

[]create vpc

Create only the VPC resource or the VPC and other networking resources.

☒ VPC only

☐ VPC and more

Name tag - *optional*

Creates a tag with a key of 'Name' and a value that you specify.

my-vpc-01

IPv4 CIDR block [Info](#)

☒ IPv4 CIDR manual input

☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/24

IPv6 CIDR block [Info](#)

☒ No IPv6 CIDR block

☐ IPAM-allocated IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

☐ IPv6 CIDR owned by me

Tenancy [Info](#)

[]right click on created vpc

[]select edit vpc

VPC details

VPC ID

 vpc-0bcd515f12e641606

Name

 kanchu_vpc

DHCP settings

DHCP option set [Info](#)

dopt-0356366f72825acfc

DNS settings

☒ Enable DNS resolution [Info](#)

☒ Enable DNS hostnames [Info](#)

☐ Enable DNS hostnames

☐ save

Step 2: to create subnet:

Create subnet [Info](#)

VPC

VPC ID

Create subnets in this VPC.

vpc-0bcd515f12e641606 (kanchu_vpc)

Associated VPC CIDRs

IPv4 CIDRs

192.178.0.0/16

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

my-subnet-01

The name can be up to 256 characters long.

Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference ▼

IPv4 CIDR block [Info](#)

10.0.0.0/24

▼ Tags - optional

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Remove

[] In vpc ID select which vpc we want

[] subnet name give whatever

[] in availability zone choose zone

[] ipv4 CIDR block ex:10.0.2.0/24 (3rd bit we need change , here we use in vpc what we mention for ip)

[] create subnet

[] enable auto-assign ipv4

[] save

Step 3: To create internet gateway create:

VPC > Internet gateways > Create internet gateway

Create internet gateway [Info](#)

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag

Creates a tag with a key of 'Name' and a value that you specify.

my-internet-gateway

Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

[] In name tag we can give whatever we want ex: kanchana_gat

Next, we want to attach this internet gateway for VPC. You can select the internet gateway and click Attach to VPC.



Next, select the previously created VPC and click attach internet gateway button.

Step 4:to create Route table

[] when we create vpc route table also create (check in route table drag table there we find vpc column there check VPC id)

[] select route table what we created right click select edit route and add route 0.0.0.0/0 and select the previously created Internet Gateway. next hit the save changes button.

[] save change

VPC > Route tables > rtb-0b454d8678819f2f9 > Edit routes

Edit routes

Destination	Target	Status	Propagated
172.17.0.0/16	<input type="text" value="local"/>	Active	No
<input type="text" value="0.0.0.0/0"/>	<input type="text" value="igw-016e3f23f1aba2129"/>	Active	No

[] in down select

[] subnet associations

[] in **Explicit subnet associations** (1) select [Edit subnet associations](#)

[] add the subnet which we created/ which we want

[] save

VPC > Route tables > rtb-0aed3b31fba263a5e > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (4/4)

<input checked="" type="checkbox"/>	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/>	kanchu_sub	subnet-08d26dcd06ace6884	192.178.2.0/24	-	rtb-0aed3b31fba263a5e / kanchu_sub
<input checked="" type="checkbox"/>	kanchana_sub	subnet-001f6d7faa78db624	192.178.31.0/24	-	rtb-0aed3b31fba263a5e / kanchana_sub
<input checked="" type="checkbox"/>	kanchu2	subnet-080d222bcb224e8e	192.178.29.0/24	-	rtb-0aed3b31fba263a5e / kanchu2
<input checked="" type="checkbox"/>	kanchu1	subnet-0b7512ae25f06c773	192.178.28.0/24	-	rtb-0aed3b31fba263a5e / kanchu1

Selected subnets

In subnet:

Now we go to public subnet and click subnet settings and enable "Enable auto-assign public IPv4 address" and click save.

Edit subnet settings [Info](#)

Subnet

Subnet ID	Name
 subnet-080d222bcbb224e8e	 kanchu2

Auto-assign IP settings [Info](#)

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

- ☒ Enable auto-assign public IPv4 address [Info](#)
- ☐ Enable auto-assign customer-owned IPv4 address [Info](#)
Option disabled because no customer owned pools found.

To launch Instance:

- [] select EC2 global view
- [] in search bar search EC2
- [] Selecte EC2
- [] In lift side select instances
- [] selecte launch instance
- [] in name and tags give whatever we want

Name and tags [Info](#)

Name

[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

Recents

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

[Browse more AMIs](#)

▼ Summary

Number of instances [Info](#)

Software Image (AMI)

[Amazon Linux 2023 AMI 2023.0.2...read more](#)
ami-0715c1897453cabd1

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Cancel

Launch instance

[Review commands](#)

[] in quick start select which we want

[] in AMI

[] select free tier eligible

[] instance type also selects free tier eligible

aws

Mac

ubuntu

Microsoft

Red Hat

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-0715c1897453cabd1 (64-bit (x86)) / ami-041c36ce1b70dfc41 (64-bit (Arm))

Free tier eligible

Description

Amazon Linux 2023 AMI 2023.0.20230517.1 x86_64 HVM kernel-6.1

Architecture

AMI ID

64-bit (x86)

ami-0715c1897453cabd1

Verified provider

▼ Instance type [Info](#)

Instance type

▼ Summary

Number of instances [Info](#)

Software Image (AMI)

[Amazon Linux 2023 AMI 2023.0.2...read more](#)
ami-0715c1897453cabd1

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Cancel

Launch instance

[Review commands](#)

[] In key pair

[] first we need to create key pair

[] select create key pair select RSA and .pem

Create key pair

×

Key pair name

Key pairs allow you to connect to your instance securely.

Enter key pair name

The name can include upto 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

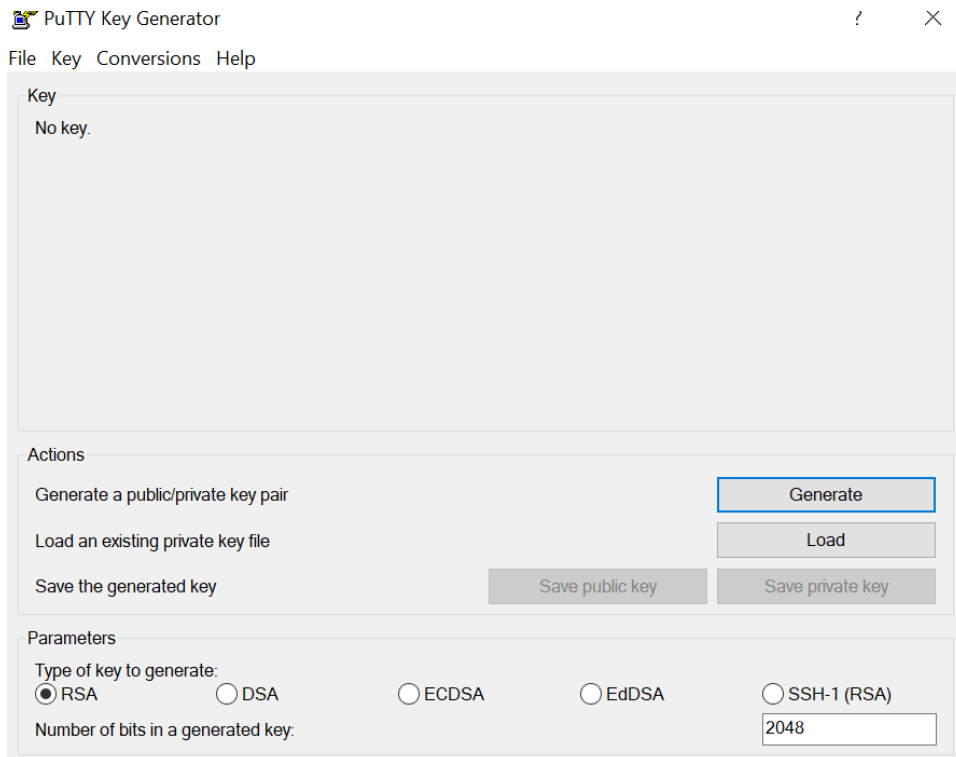
☒ .pem
For use with OpenSSH

☐ .ppk
For use with PuTTY

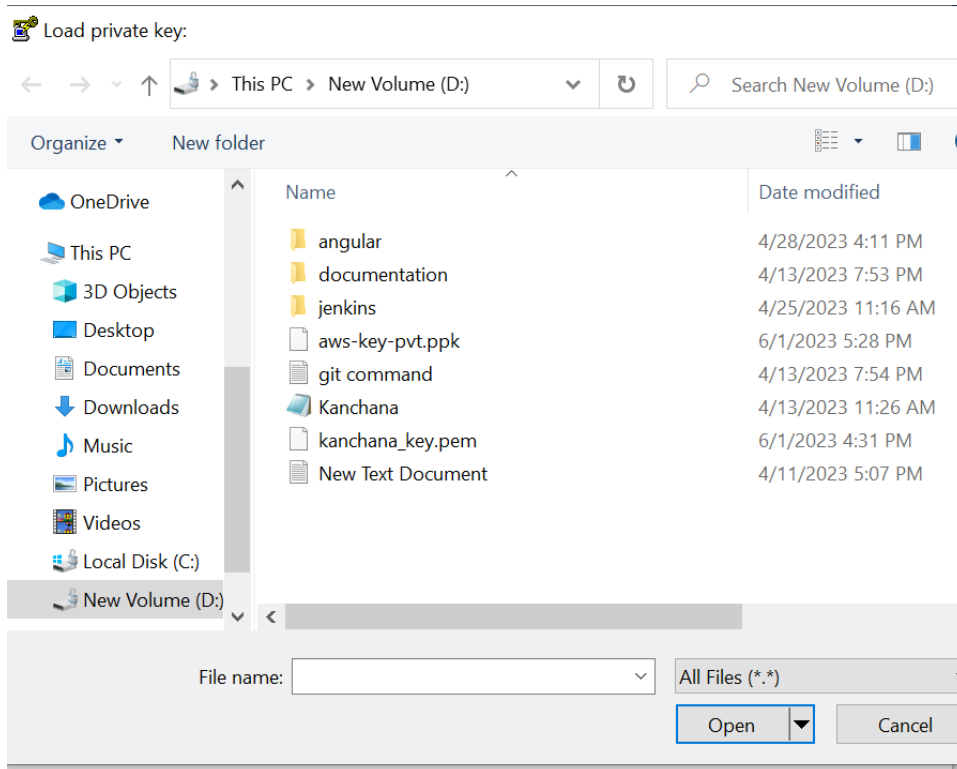
Cancel

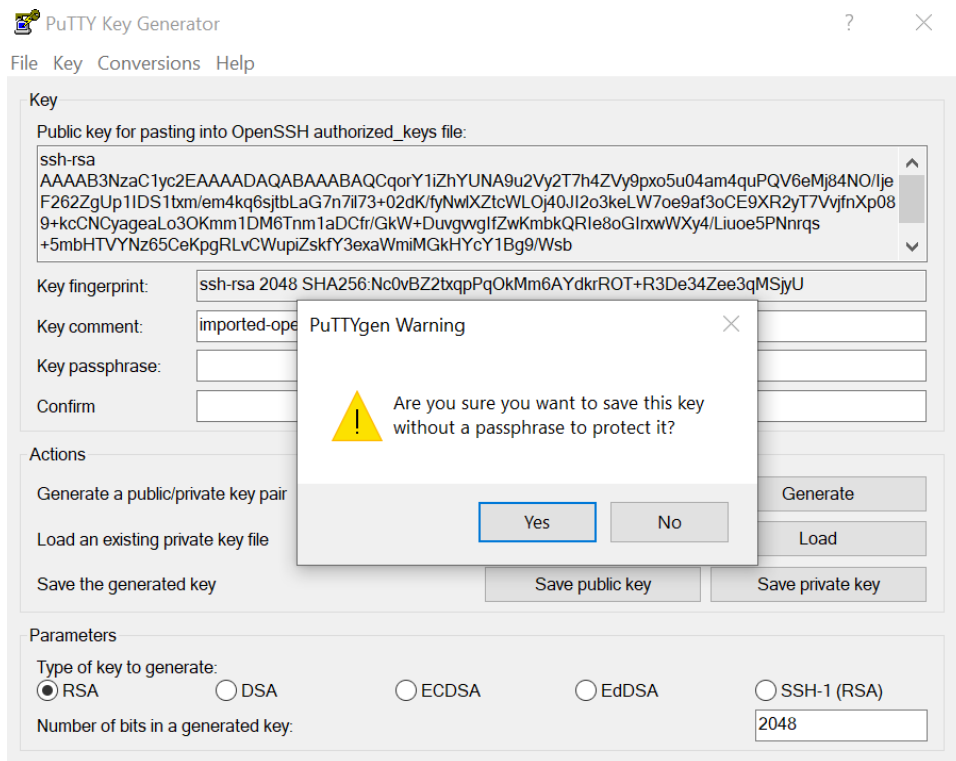
Create key pair

[] after creating key pair in puttygen select load and choose .pem what we created



[] choose all file in fill name





[] select save private key

[] yes

[] save the file

[] In network setting

[] edit

▼ Network settings

Info

VPC - required

Info

vpc-0bcd515f12e641606 (kanchu_vpc)

192.178.0.0/16

↻

Subnet

Info

subnet-08d26dcd06ace6884

kanchu_sub

↻

Create new subnet

↗

VPC: vpc-0bcd515f12e641606

Owner: 165271113309

Availability Zone: us-east-1d

IP addresses available: 250

CIDR: 192.178.2.0/24)

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

Common security groups

Info

Select security groups

▼

[] In vpc required select which we want

[] in firewall select existing security grp if we already created/

[] in common security groups select which we created

Ksg sg-0932aa60577ab2e1d

×

↻ Compare security group rules

VPC: vpc-0bcd515f12e641606

Security groups that you add or remove here will be added to or removed from all your network interfaces.

► Advanced network configuration

▼ Configure storage

Info

Advanced

1x

8

GiB

gp3

▼

Root volume (Not encrypted)

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

×

Add new volume

0 x File systems

Edit

[] in firewall in first time select create security group

☒ 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 2023-06-05T11:22:40.896Z

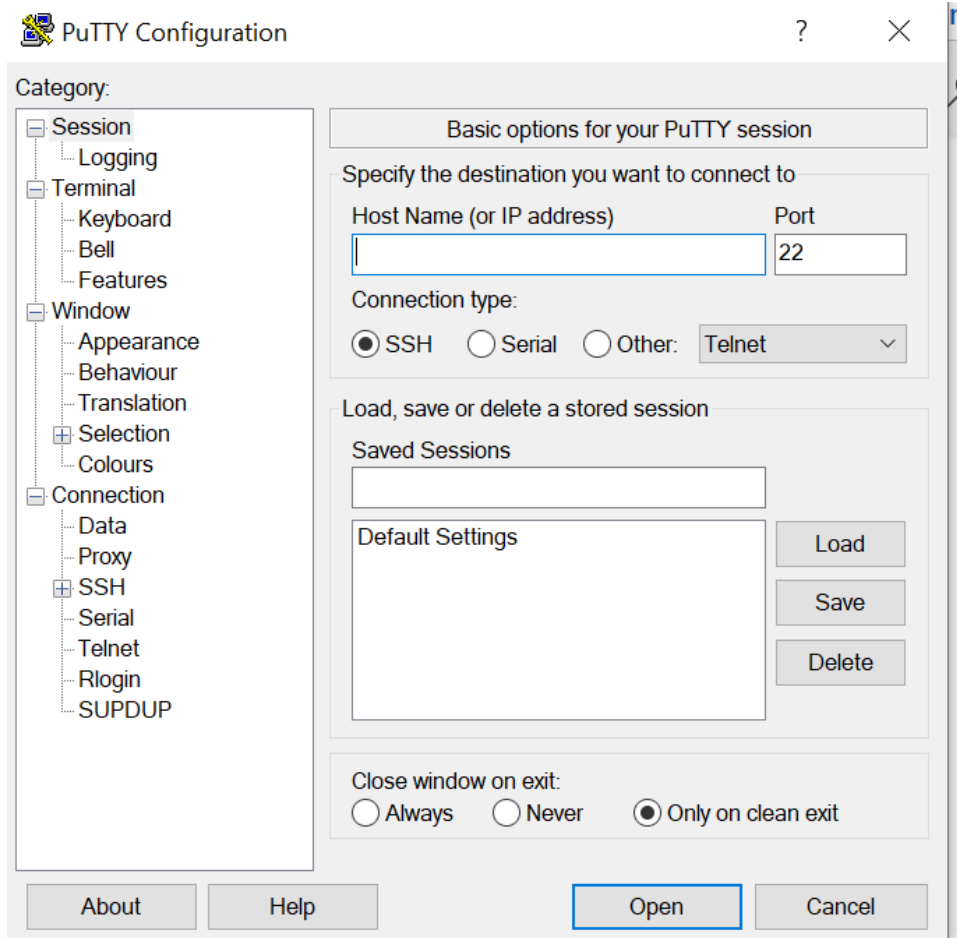
Inbound security groups rules

▼ Security group rule 1 (All, All, 0.0.0.0/0)

Remove

Type Info	Protocol Info	Port range Info
All traffic ▼	All	All
Source type Info	Source Info	Description - <i>optional</i> Info
Anywhere ▼	<div>🔍 Add CIDR, prefix list or secur</div> <div>0.0.0.0/0 ✕</div>	e.g. SSH for admin desktop

Puttyexe:



[] In host name if we use ubuntu (ubuntu@publicip) if use aws (ec2-user@publicip)

[] SSH

[] Auth

[] credentials

[] in browser select file what we create file in puttygen