

**DWS** [Option+5]

Select

Allow tags in metadata [Info](#)

Select

User data - optional [Info](#)

Upload a file with your user data or enter it in the field.

```
#!/bin/bash
yes | sudo apt update
yes | sudo apt install apache2
echo "<strong>Server Details</strong>"><p><strong>Hostname:</strong> $(hostname)</p><p><strong>IP Address:</strong> $(hostname -I | cut -d ' ' -f1)</p>>
/var/www/html/index.html
sudo systemctl restart apache2
```

☐ User data has already been base64 encoded

Step 1:

Create 1<sup>st</sup> -VPC (test-vpc-1)

## Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

### VPC settings

**Resources to create** [Info](#)  
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.

test-vpc1

**IPv4 CIDR block** [Info](#)

☒ IPv4 CIDR manual input ☐ IPAM-allocated IPv4 CIDR block

**IPv4 CIDR**

12.0.0.0/16

CIDR block size must be between /16 and /28.

**IPv6 CIDR block** [Info](#)

☒ No IPv6 CIDR block

Create IGW

VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

VPC > Internet gateways > igw-0b1e65272855467e5

### igw-0b1e65272855467e5 / igw-vpc1

Actions

#### Details [Info](#)

Internet gateway ID	State	VPC ID	Owner
igw-0b1e65272855467e5	Attached	vpc-05fbd76fade24b64c   test-vpc1	389363067735

#### Tags

Search tags

Manage tags

< 1 > ⌂

Key	Value
-----	-------

Create subnet

Create subnets in this VPC.

vpc-05fbd76fade24b64c (test-vpc1)

### Associated VPC CIDRs

IPv4 CIDRs

12.0.0.0/16

## Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

### Subnet 1 of 1

#### Subnet name

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

subnet-test-vpc1-2a

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.

US East (Ohio) / us-east-2a

#### IPv4 VPC CIDR block [Info](#)

Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

12.0.0.0/16

#### IPv4 subnet CIDR block

12.0.1.0/24

256 IPs

## Create routing table

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
-	rtb-052ca60c0cee31677	-	-	Yes	vpc-01114dd
rt-test-vpc1	rtb-01ab2ed1f0194606a	-	-	No	vpc-05fbd76
-	rtb-0ca6ce0a2393812da	-	-	Yes	vpc-05fbd76

## Create Subnet association

VPC > Route tables > rtb-01ab2ed1f0194606a

### rtb-01ab2ed1f0194606a / rt-test-vpc1

**Details** info

Route table ID rtb-01ab2ed1f0194606a	Main No	Explicit subnet associations subnet-054a87ce827b30887 / subnet-test-vpc1-2a	Edge associations -
VPC vpc-05fbd76fade24b64c   test-vpc1	Owner ID 389363067735		

**Actions**

- Set main route table
- Edit subnet associations
- Edit edge associations
- Edit route propagation
- Edit routes
- Manage tags
- Delete

## Edit routing table

VPC > Route tables > rtb-01ab2ed1f0194606a > Edit routes

### Edit routes

Destination	Target	Status	Propagated
12.0.0.0/16	local	Active	No
0.0.0.0/0	Internet Gateway	-	No

**Add route**

Cancel Preview **Save changes**

Done with first VPC

Repeat the same for the other two VPC

**Your VPCs (4)** info

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-01114d5dbf3d57446d	Available	172.31.0.0/16	-
test-vpc1	vpc-05fbd76fade24b64c	Available	12.0.0.0/16	-
test-vpc2	vpc-0a5a9bc12a3fd4876	Available	13.0.0.0/16	-
test-vpc3	vpc-05242bda79edeb436	Available	14.0.0.0/16	-

Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- DHCP option sets
- Elastic IPs

**Subnets (3)** Info

Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
subnet-test-vpc1-2a	subnet-054a87ce827b30887	Available	vpc-05fbd76fade24b64c   test-...	12.0.1.0/24
subnet-test-vpc2-2a	subnet-0bc9ee940c5b57527	Available	vpc-0a5a9bc12a3fd4876   test-...	13.0.1.0/24
subnet-test-vpc3-2a	subnet-0990995952d93fb1d	Available	vpc-05242bda79edeb436   test-...	14.0.1.0/24

**Route tables (7)** Info

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
-	rtb-052ca60c0cee31677	-	-	Yes	vpc-01114dd...
rt-test-vpc1	rtb-01ab2ed1f0194606a	subnet-054a87ce827b30...	-	No	vpc-05fbd76f...
-	rtb-0ca6ce0a2393812da	-	-	Yes	vpc-05fbd76f...
-	rtb-039dd0956d51b1e3e	-	-	Yes	vpc-0a5a9bc1...
rt-test-vpc2	rtb-0a21ef6270ab2304e	subnet-0bc9ee940c5b57...	-	No	vpc-0a5a9bc1...
-	rtb-0caf531622eb67a96	-	-	Yes	vpc-05242bda...
rt-test-vpc3	rtb-005fda13134cdfca	subnet-0990995952d93f...	-	No	vpc-05242bda...

**Internet gateways (3)** Info

Search

Name	Internet gateway ID	State	VPC ID	Owner
igw-vpc1	igw-0b1e65272855467e5	Attached	vpc-05fbd76fade24b64c   test-vpc1	38936
igw-vpc2	igw-06128e234d0e27daa	Attached	vpc-0a5a9bc12a3fd4876   test-vpc2	38936
igw-vpc3	igw-093e94ad49647b858	Attached	vpc-05242bda79edeb436   test-vpc3	38936

## Create transit gateway

**Transit gateways (1)** Info

Find transit gateway by attribute or tag

Name	Transit gateway ID	State
tgw-vpc1vpc2vpc3	tgw-0cd08b6d57a67133c	Pending

Select a transit gateway

## Create transit gateway attachment

## Create transit gateway attachment [Info](#)

A transit gateway (TGW) is a network transit hub that interconnects attachments (VPCs and VPNs) within the same AWS account or across AWS accounts.

### Details

#### Name tag - *optional*

Creates a tag with the key set to Name and the value set to the specified string.

#### Transit gateway ID [Info](#)



tgw-0cd08b6d57a67133c (tg-vpc1vpc2vpc3)  
389363067735 transit gateway for vpc1 vpc2 vpc3



### VPC attachment

Select and configure your VPC attachment.

☒ DNS support [Info](#)

☐ IPv6 support [Info](#)

☐ Appliance Mode support [Info](#)

#### VPC ID

Select the VPC to attach to the transit gateway.

## VPC attachment

Select and configure your VPC attachment.

☒ DNS support [Info](#)

☐ IPv6 support [Info](#)

☐ Appliance Mode support [Info](#)

### VPC ID

Select the VPC to attach to the transit gateway.

172.31.0.0/16

13.0.0.0/16

12.0.0.0/16

14.0.0.0/16

## 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.

Key

Value - optional

Remove

You successfully created VPC attachment tgw-attach-0dc9ff5cb0fd3d4fe / tg-vpc3.

### Transit gateway attachments (3) [Info](#)

<input type="checkbox"/>	Name	Transit gateway attachment ID	Transit gateway ID	State	Resource type	Resource
<input type="checkbox"/>	tg-vpc1	tgw-attach-07235eb2fa34de4f0	tgw-0cd08b6d57a67133c	Available	VPC	vpc-05242bda79edeb436
<input type="checkbox"/>	tg-vpc2	tgw-attach-079dfe16562c95398	tgw-0cd08b6d57a67133c	Available	VPC	vpc-0a5a9bc12a3fd4876
<input type="checkbox"/>	tg-vpc3	tgw-attach-0dc9ff5cb0fd3d4fe	tgw-0cd08b6d57a67133c	Pending	VPC	vpc-05242bda79edeb436

Now goto routers and make modify routing table for transit gateway.

VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Route tables (7) [Info](#)

☐

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
-	rtb-0caf531622eb67a96	-	-	Yes	vpc-05242bda79edeb436
rt-test-vpc1	rtb-01ab2ed1f0194606a	subnet-054a87ce827b30...	-	No	vpc-05fbd76fade24b64c
-	rtb-039dd0956d51b1e3e	-	-	Yes	vpc-0a5a9bc12a3fd4876
rt-test-vpc2	rtb-0a21ef6270ab2304e	subnet-0bc9ee940c5b57...	-	No	vpc-0a5a9bc12a3fd4876
-	rtb-0ca6ce0a2393812da	-	-	Yes	vpc-05fbd76fade24b64c
-	rtb-052ca60c0cee31677	-	-	Yes	vpc-01114ddbf3d57446d
rt-test-vpc3	rtb-005fda13134cdf2ca	subnet-0990995952d93f...	-	No	vpc-05242bda79edeb436

VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

VPC > Route tables > rtb-01ab2ed1f0194606a

rtb-01ab2ed1f0194606a / rt-test-vpc1

Actions

Details

Route table ID

rtb-01ab2ed1f0194606a

Main

No

Explicit subnet associations

subnet-054a87ce827b30887 / subnet-test-vpc1-2a

Edge associations

-

VPC

vpc-05fbd76fade24b64c | test-vpc1

Owner ID

389363067735

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Both

Edit routes

Filter routes

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0b1e65272855467e5	Active	No
12.0.0.0/16	local	Active	No

VPC > Route tables > rtb-01ab2ed1f0194606a > Edit routes

Edit routes

Destination

12.0.0.0/16

Target

local

Status

Active

Propagated

No

0.0.0.0/0

Internet Gateway

Active

No

Remove

Add route

Cancel

Preview

Save changes

\*\*\*

Destination

12.0.0.0/16

Target

local

Status

Active

0.0.0.0/0

Internet Gateway

Active

13.0.0.0/16

Transit Gateway

-

Add route

tgw-0cd08b6d57a67133c

Use: "tgw-0cd08b6d57a67133c"


tgw-0cd08b6d57a67133c (tg-vpc1)



Destination	Target	Status
12.0.0.0/16	local	✓ Active
<input type="text" value="13.0.0.0/16"/>	Transit Gateway	✓ Active
<input type="text" value="14.0.0.0/16"/>	Internet Gateway	✓ Active
<input type="text" value="0.0.0.0/0"/>	Transit Gateway	-
<input type="text" value="14.0.0.0/16"/>	tgw-0cd08b6d57a67133c	
<input type="text" value="14.0.0.0/16"/>	tgw-0cd08b6d57a67133c (tg-vpc1)	

DetailsInfo


Route table ID

rtb-01ab2ed1f0194606a


VPC

vpc-05fbd76fade24b64c | test-vpc1

Main

No

Owner ID

389363067735

Explicit subnet associations

subnet-054a87ce827b30887 / subnet-test-vpc1-2a

Edge associations

-

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (4)

Both

Edit routes

Q

Filter routes

Destination	Target	Status	Propagated
0.0.0.0/0	<a href="#">igw-0b1e65272855467e5</a>	<div><div></div>Active</div>	No
12.0.0.0/16	local	<div><div></div>Active</div>	No
13.0.0.0/16	<a href="#">tgw-0cd08b6d57a67133c</a>	<div><div></div>Active</div>	No
14.0.0.0/16	<a href="#">tgw-0cd08b6d57a67133c</a>	<div><div></div>Active</div>	No

Routing table of vpc2

[VPC](#) > [Route tables](#) > rtb-0a21ef6270ab2304e

rtb-0a21ef6270ab2304e / rt-test-vpc2

Actions

DetailsInfo

Route table ID

rtb-0a21ef6270ab2304e

VPC

vpc-0a5a9bc12a3fd4876 | test-vpc2

Main

No

Owner ID

389363067735

Explicit subnet associations

subnet-0bc9ee940c5b57527 / subnet-test-vpc2-2a

Edge associations

-

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (4)

BothEdit routes

Filter routes

<1>⚙

Destination	Target	Status	Propagated
0.0.0.0/0	igw-06128e234d0e27daa	Active	No
12.0.0.0/16	tgw-0cd08b6d57a67133c	Active	No
13.0.0.0/16	local	Active	No
14.0.0.0/16	tgw-0cd08b6d57a67133c	Active	No

## Routing table of vpc3

[VPC](#) > [Route tables](#) > rtb-005fda13134cdf2ca

rtb-005fda13134cdf2ca / rt-test-vpc3

Actions

DetailsInfo

Route table ID

rtb-005fda13134cdf2ca

VPC

vpc-05242bda79edeb436 | test-vpc3

Main

No

Owner ID

389363067735

Explicit subnet associations

subnet-0990995952d93fb1d / subnet-test-vpc3-2a

Edge associations

-

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (4)

BothEdit routes

Filter routes

<1>⚙

Destination	Target	Status	Propagated
0.0.0.0/0	igw-093e94ad49647b858	Active	No
12.0.0.0/16	tgw-0cd08b6d57a67133c	Active	No
13.0.0.0/16	tgw-0cd08b6d57a67133c	Active	No
14.0.0.0/16	local	Active	No

```
[1]+ Stopped watch ls
[ec2-user@ip-12-0-1-127 ~]$ ls
test-vpc1-key.pem  test-vpc2-key.pem
[ec2-user@ip-12-0-1-127 ~]$ ls
test-vpc1-key.pem  test-vpc2-key.pem  test-vpc3-key.pem
[ec2-user@ip-12-0-1-127 ~]$ sudo chmod 400 test-vpc3-key.pem
[ec2-user@ip-12-0-1-127 ~]$ ls -l test-vpc3-key.pem
-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:29 test-vpc3-key.pem
[ec2-user@ip-12-0-1-127 ~]$ ls
test-vpc1-key.pem  test-vpc2-key.pem  test-vpc3-key.pem
[ec2-user@ip-12-0-1-127 ~]$ watchls
-bash: watchls: command not found
[ec2-user@ip-12-0-1-127 ~]$ watch ls
```

```
[2]+ Stopped watch ls
[ec2-user@ip-12-0-1-127 ~]$ ls -lart
total 24
-rw-r--r--. 1 ec2-user ec2-user 492 Jan 28 2023 .bashrc
-rw-r--r--. 1 ec2-user ec2-user 141 Jan 28 2023 .bash_profile
-rw-r--r--. 1 ec2-user ec2-user 18 Jan 28 2023 .bash_logout
drwxr-xr-x. 3 root root 22 Feb 17 07:54 ..
-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:15 test-vpc2-key.pem
drwx-----. 2 ec2-user ec2-user 71 Feb 17 08:17 .ssh
-r-----. 1 ec2-user ec2-user 1678 Feb 17 08:24 test-vpc1-key.pem
drwx-----. 3 ec2-user ec2-user 149 Feb 17 08:29 .
-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:29 test-vpc3-key.pem
[ec2-user@ip-12-0-1-127 ~]$ watch ls
```



```
[ec2-user@ip-13-0-1-171 ~]$ ls
[ec2-user@ip-13-0-1-171 ~]$ ls
test-vpc1-key.pem test-vpc2-key.pem test-vpc3-key.pem
[ec2-user@ip-13-0-1-171 ~]$ sudo chmod 400 test-vpc1-key.pem
[ec2-user@ip-13-0-1-171 ~]$ sudo chmod 400 test-vpc2-key.pem
[ec2-user@ip-13-0-1-171 ~]$ sudo chmod 400 test-vpc3-key.pem
[ec2-user@ip-13-0-1-171 ~]$ ls -lart
total 28
-rw-r--r--. 1 ec2-user ec2-user 492 Jan 28 2023 .bashrc
-rw-r--r--. 1 ec2-user ec2-user 141 Jan 28 2023 .bash_profile
-rw-r--r--. 1 ec2-user ec2-user 18 Jan 28 2023 .bash_logout
drwxr-xr-x. 3 root root 22 Feb 17 07:58 ..
drwx-----. 2 ec2-user ec2-user 29 Feb 17 07:58 .ssh
-rw-----. 1 ec2-user ec2-user 70 Feb 17 08:25 .bash_history
-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:38 test-vpc3-key.pem
-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:38 test-vpc2-key.pem
drwx-----. 3 ec2-user ec2-user 170 Feb 17 08:38 .
-r-----. 1 ec2-user ec2-user 1678 Feb 17 08:38 test-vpc1-key.pem
[ec2-user@ip-13-0-1-171 ~]$ watch ls
```

In the below screenshots .. we can see that ec2-instance from VPC2(13.0.0.0/16) can connect to instance in VPC1(12.0.0.0/16) & VPC3(14.0.0.0/16)

```


A terminal window titled "Authenticating with public key \"Imported-Openssh-Key\"". The window has a dark background with green, yellow, and red text. It shows the MobaXterm version (v23.3) and lists SSH session details for an EC2 instance. Below this, it shows the Amazon Linux 2023 logo and a URL. The terminal output includes the last login time, the command to watch ls, and the resulting directory listing with file permissions and sizes.

• MobaXterm Personal Edition v23.3 •  

(SSH client, X server and network tools)  

► SSH session to ec2-user@3.149.249.73  

• Direct SSH : ✓  

• SSH compression : ✓  

• SSH-browser : ✓  

• X11-forwarding : ✗ (disabled or not supported by server)  

► For more info, ctrl+click on help or visit our website.  


Amazon Linux 2023  

https://aws.amazon.com/linux/amazon-linux-2023  

Last login: Sat Feb 17 08:17:31 2024 from 12.0.1.127  

[ec2-user@ip-13-0-1-171 ~]$ watch ls  

[1]+ Stopped watch ls  

[ec2-user@ip-13-0-1-171 ~]$ ls  

test-vpc1-key.pem test-vpc2-key.pem test-vpc3-key.pem  

[ec2-user@ip-13-0-1-171 ~]$ sudo chmod 400 test-vpc1-key.pem  

[ec2-user@ip-13-0-1-171 ~]$ sudo chmod 400 test-vpc2-key.pem  

[ec2-user@ip-13-0-1-171 ~]$ sudo chmod 400 test-vpc3-key.pem  

[ec2-user@ip-13-0-1-171 ~]$ ls -lart  

total 28  

-rw-r--r--. 1 ec2-user ec2-user 492 Jan 28 2023 .bashrc  

-rw-r--r--. 1 ec2-user ec2-user 141 Jan 28 2023 .bash_profile  

-rw-r--r--. 1 ec2-user ec2-user 18 Jan 28 2023 .bash_logout  

drwxr-xr-x. 3 root root 22 Feb 17 07:58 ..  

drwx-----. 2 ec2-user ec2-user 29 Feb 17 07:58 .ssh  

-rw-----. 1 ec2-user ec2-user 70 Feb 17 08:25 .bash_history  

-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:38 test-vpc3-key.pem  

-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:38 test-vpc2-key.pem  

drwx-----. 3 ec2-user ec2-user 170 Feb 17 08:38 .  

-r-----. 1 ec2-user ec2-user 1678 Feb 17 08:38 test-vpc1-key.pem  

[ec2-user@ip-13-0-1-171 ~]$ watch ls

```



```

drwxr-xr-x. 3 root    root      22 Feb 17 07:58 ..
drwx-----. 2 ec2-user ec2-user  29 Feb 17 07:58 .ssh
-rw-----. 1 ec2-user ec2-user   70 Feb 17 08:25 .bash_history
-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:38 test-vpc3-key.pem
-r-----. 1 ec2-user ec2-user 1674 Feb 17 08:38 test-vpc2-key.pem
drwx-----. 3 ec2-user ec2-user  170 Feb 17 08:38 .
-r-----. 1 ec2-user ec2-user 1678 Feb 17 08:38 test-vpc1-key.pem
[ec2-user@ip-13-0-1-171 ~]$ watch ls

[2]+  Stopped                  watch ls
[ec2-user@ip-13-0-1-171 ~]$
[ec2-user@ip-13-0-1-171 ~]$ ssh -i "test-vpc1-key.pem" ec2-user@3.139.103.129
The authenticity of host '3.139.103.129 (3.139.103.129)' can't be established.
ED25519 key fingerprint is SHA256:1kE0suA5bbF6qdw45ZS0ddfyFY0p5/B4+2a10LZttGI.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.139.103.129' (ED25519) to the list of known hosts

      #_
     _\#####_      Amazon Linux 2023
    ~\#####\_
   ~\#####\_
  ~\#####\_
 ~\#####\_
~\#####\_
 ~\#####\_
  ~\#####\_
   ~\#####\_
    ~\#####\_
     _\#####\_
      #_

Last login: Sat Feb 17 08:34:03 2024 from 49.37.162.161
[ec2-user@ip-12-0-1-127 ~]$
[ec2-user@ip-12-0-1-127 ~]$ ssh -i "test-vpc3-key.pem" ec2-user@3.145.62.57
The authenticity of host '3.145.62.57 (3.145.62.57)' can't be established.
ED25519 key fingerprint is SHA256:byWHfQ3UlhIinTYFHU12AeEbtuEeb/Zd9KDbzLJzQSQ.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.145.62.57' (ED25519) to the list of known hosts.

      #_
     _\#####_      Amazon Linux 2023
    ~\#####\_
   ~\#####\_
  ~\#####\_
 ~\#####\_
~\#####\_
 ~\#####\_
  ~\#####\_
   ~\#####\_
    ~\#####\_
     _\#####\_
      #_

Last login: Sat Feb 17 08:51:46 2024 from 3.149.249.73
[ec2-user@ip-14-0-1-153 ~]$

```

connect MakeMachines by subscribing to the professional edition here: <https://connect.makemachines.com/professional-edition>

Therefore ec2 instance from three different vpc's are connected.





### Info

Connect to your instance `i-0dddfb81b39cf36d7` (ec2-test-vpc1) using any of these options

EC2 Instance Connect	Session Manager	SSH client	EC2 serial console
----------------------	-----------------	------------	--------------------

Instance ID

 i-0dddfb81b39cf36d7 (ec2-test-vpc1)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is `test-vpc1-key.pem`.
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
 `chmod 400 "test-vpc1-key.pem"`
4. Connect to your instance using its Public IP:  
 `3.139.103.129`

Example:

```
ssh -i "test-vpc1-key.pem" ec2-user@3.139.103.129
```

**All the three key files has to be present n uploaded for any kindf of access from different vpc & its mod has to be changed to 400**

```
#
~\####
~~\#####\
~~\###|
~~\#/
~~V~' -> https://aws.amazon.com/linux/amazon-linux-2023
~~~~
~~~
~~~
~/m/'
```

Last login: Sat Feb 17 08:55:09 2024 from 3.149.249.73  
[ec2-user@ip-12-0-1-127 ~]\$ ls  
test-vpc1-key.pem test-vpc2-key.pem test-vpc3-key.pem  
[ec2-user@ip-12-0-1-127 ~]\$ rm test-vpc2-key.pem  
rm: remove write-protected regular file 'test-vpc2-key.pem'? yes  
[ec2-user@ip-12-0-1-127 ~]\$ ls  
test-vpc1-key.pem test-vpc3-key.pem  
[ec2-user@ip-12-0-1-127 ~]\$ rm test-vpc3-key.pem  
rm: remove write-protected regular file 'test-vpc3-key.pem'? yes  
[ec2-user@ip-12-0-1-127 ~]\$ ls  
test-vpc1-key.pem  
[ec2-user@ip-12-0-1-127 ~]\$ ssh -i "test-vpc2-key.pem" ec2-user@3.149.249.73  
Warning: Identity file test-vpc2-key.pem not accessible: No such file or directory.  
ec2-user@3.149.249.73: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).  
[ec2-user@ip-12-0-1-127 ~]\$ ssh -i "test-vpc2-key.pem" ec2-user@13.0.1.171  
Warning: Identity file test-vpc2-key.pem not accessible: No such file or directory.  
ec2-user@13.0.1.171: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).  
[ec2-user@ip-12-0-1-127 ~]\$ █