

Your VPCs (1/2) [info](#)

Find VPCs by attribute or tag

Last updated less than a minute ago [Actions](#) [Create VPC](#)

<input type="checkbox"/>	Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table	Main network ACL	Tenancy	Default VPC	
<input checked="" type="checkbox"/>	elevate 3 🔗	vpc-06fac162a0b78b439	Available	Off	10.0.0/24	–	dspt-05ec49b9fda13a118	rtb-0dd7ecdd45660505	acl-0ecac277ba95150ab	default	No	34
<input type="checkbox"/>	–	vpc-04dcl11365e678f5f	Available	Off	172.31.0.0/16	–	dspt-05ec49b9fda13a118	rtb-00f00c4be1bdc4e11b	acl-00136f5f6a77ecdb8	default	Yes	34

2 subnets have been created

Sub22 – private subnet-Nat gateway connected

Route table:

Route tables (5) new							
<div> <input type="text"/> <div>Find route tables by attribute or tag</div> </div> <div> <div>Last updated: Less than a minute ago</div> <div> Actions Create route table </div> </div>							
<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>		rtb-00f70d86a13dc4b19	—	—	Yes	vpc-044ff111b5a5d78fd	s49660737927
<input type="checkbox"/>	RTP00	rtb-0e28782a85dc7a75e	subnet-09a89c62246dc9c	—	No	vpc-0e5ac1a2a0b78b439 elavro	s49660737927
<input type="checkbox"/>	RT11	rtb-0746a627446270a0a9	subnet-03bb738b79b67996	—	Yes	vpc-0e5ac1a2a0b78b439 elavro	s49660737927

Internet gateway (INT)

Internet gateways (2) info

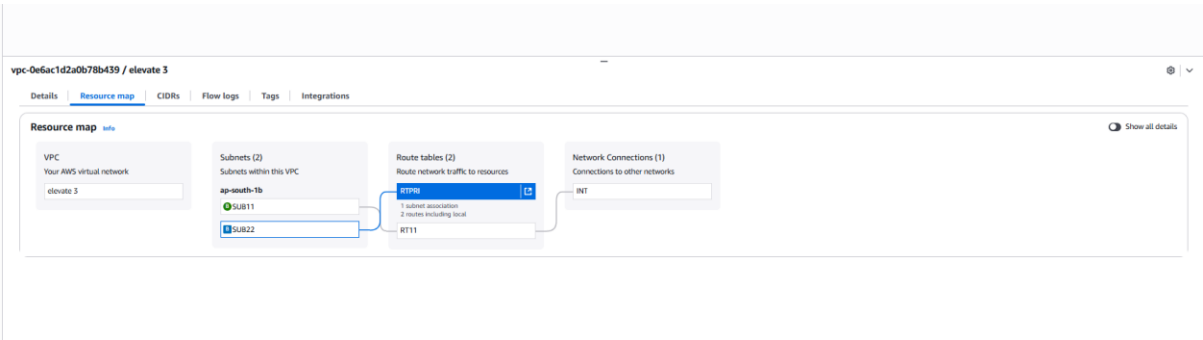
Find internet gateways by attribute or tag

Name	Internet gateway ID	State	VPC ID	Owner
INT	igw-05fna3b75d852a80e	Attached	vpc-0e6ac1d2a0b78b439 elevate 3	349660737927
-	igw-0b556bc53f6a80c4d0	Attached	vpc-04d8fc1113b6ac56788d	349660737927

Select an internet gateway above

CASE 1:

Overall connection without Nat gateway:



CASE 2:

NAT GATEWAY (NAT)

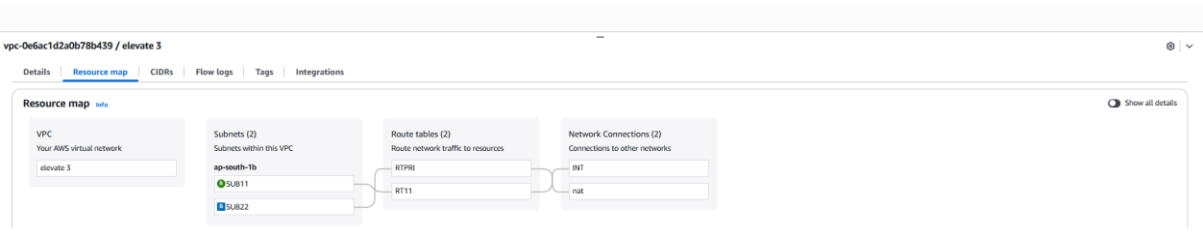
NAT gateways (1) info

Find NAT gateways by attribute or tag

Name	NAT gateway ID	Connectivity...	State	State message	Primary public I...	Primary private I...	Primary network...	VPC	Subnet	Created	Deleted
nat	nat-018ba172b4d403aaa7a	Public	Available	-	13.204.5.189	10.0.0.22	eni-05f9e70947a96...	vpc-0e6ac1d2a0b78b439 elev...	subnet-03b78ab7267b96b12 / ...	Wednesday, September 24...	-

Select a NAT gateway

OVERAL CONNECTION WITH NAT GATEWAY



Server from public subnet where internet is accessible:

```
root@ip-10-0-0-39:/opt
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements!
https://aka.ms/PSWindows

PS C:\Users\kanma> ssh -i "kanmani.pem" ec2-user@15.206.179.189
The authenticity of host '15.206.179.189 (15.206.179.189)' can't
be established.
ED25519 key fingerprint is SHA256:gJHmfmMjKQe46HMEZX7LnTk0BXwhEh
VzTQZZAdNMWqc.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '15.206.179.189' (ED25519) to the list of known hosts.

#_
~\_ #####_ Amazon Linux 2023
~~ \_#####\
~~ \###|
~~ \#/ ___ https://aws.amazon.com/linux/amazon-linux-2
023
~~ V~' '->
~~~ /
~~.-.- /
-/_ -/_
-/_m/'

[ec2-user@ip-10-0-0-39 ~]$ sudo su -
[root@ip-10-0-0-39 ~]# ssh -i "kanmani.pem" ec2-user@10.0.0.118
Warning: Identity file kanmani.pem not accessible: No such file
```

Checking internet connection in public server:

```
root@ip-10-0-0-39:~# ssh -i "kanmani.pem" ec2-user@10.0.0.118
Warning: Identity file kanmani.pem not accessible: No such file
or directory.
The authenticity of host '10.0.0.118 (10.0.0.118)' can't be esta
blished.
ED25519 key fingerprint is SHA256:0QeYdmWAp77F6F7DvgomYUsh5Ke8xm
WUvSFj120uxzM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprin
t])? yes
Warning: Permanently added '10.0.0.118' (ED25519) to the list of
known hosts.
ec2-user@10.0.0.118: Permission denied (publickey,gssapi-keyex,g
ssapi-with-mic).
[root@ip-10-0-0-39 ~]# ping google
ping: google: Name or service not known
[root@ip-10-0-0-39 ~]# ping google.com
PING google.com (142.251.221.238) 56(84) bytes of data.
64 bytes from pnbomb-bk-in-f14.1e100.net (142.251.221.238): icmp
_seq=1 ttl=117 time=1.48 ms
64 bytes from pnbomb-bk-in-f14.1e100.net (142.251.221.238): icmp
_seq=2 ttl=117 time=1.36 ms
64 bytes from pnbomb-bk-in-f14.1e100.net (142.251.221.238): icmp
_seq=3 ttl=117 time=1.36 ms
64 bytes from pnbomb-bk-in-f14.1e100.net (142.251.221.238): icmp
_seq=4 ttl=117 time=1.37 ms
64 bytes from pnbomb-bk-in-f14.1e100.net (142.251.221.238): icmp
_seq=5 ttl=117 time=1.40 ms
64 bytes from pnbomb-bk-in-f14.1e100.net (142.251.221.238): icmp
_seq=6 ttl=117 time=1.35 ms
64 bytes from pnbomb-bk-in-f14.1e100.net (142.251.221.238): icmp
_seq=7 ttl=117 time=1.36 ms
64 bytes from pnbomb-bk-in-f14.1e100.net (142.251.221.238): icmp
_seq=8 ttl=117 time=1.37 ms
^C
--- google.com ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7012ms
```

Pem key should be available in the server so creating a file to copy paste the Pem key
"kanmani.pem"

```
[root@ip-10-0-0-39 ~]# ls
[root@ip-10-0-0-39 ~]# cd bin
-bash: cd: bin: No such file or directory
[root@ip-10-0-0-39 ~]# cd . .
-bash: cd: too many arguments
[root@ip-10-0-0-39 ~]# cd. .
-bash: cd.: command not found
[root@ip-10-0-0-39 ~]# cd..
-bash: cd..: command not found
[root@ip-10-0-0-39 ~]# cd/opt/
-bash: cd/opt/: No such file or directory
[root@ip-10-0-0-39 ~]# cd /opt/
[root@ip-10-0-0-39 opt]# vi kanmani.pem
[root@ip-10-0-0-39 opt]#
```

Pasted pem file:

```
root@ip-10-0-0-39:/opt
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAwi3PYz3cUkOnycXcyQ62z5M4saNTW8xNFrYwewo9YR+lvDDd
ttKsCs0XwfqPVeJHocfzzuzarN7BZ38zGQ3AF/AHUYWQKH8ZOPIWStiFH7IoDyCm
CeMaPIG/sb8NZcWo+QKRQ2VRZrQIwJIzWu1nu7k0sqaP7wBs2wrYj7ubr2BW+Bwv
bPXwbPA4y3MYPXnu4BeNP5RpHio0JC6Uyyc7znL0m5WyoA+SMrEQdP6hEG7G13Xr
q0rtuTgjHeqKJeLbQhLkXKkIuF3/UEvkGnsKMzZTYXBB0eYQFXDFSyaHjuLGB3J1
oyH0Epi/o/fN6w0HBvyIfSdcN2nvdGG8Z3AuQQIDAQABAoIBAF9YhyC/21M5jUXy
NfszkmhSbeArxL6o7qFctGneGU17cLH7fKKsx3V2R1gkZAVT2sCBoiHVA3sm1eiv
+LMwoUYfwjgxURvRbN3ppbCSqKtrm2fyLBVmwhe7zpjEqxtx9wpuTE2/jjzT4ghM
wZLAR9NRhvoJ91rv5oOXy8an5EY00Qqf6L4tg3/Tajvo2yLprH/QtpP/wYcL0jxv
eZyfNu2coLT7D9JDmmsKePkI6KpquNofgy3YAzczLrx9Sskh2ZpdPjN/x5Z2TpsXE
3N/HI5VxV7rlsX+Jrzhko1t/rR+en7zrrRUL/P1kpV1C3VsPUZXDMKV05zbevgya
s/HtI8ECgYEA4A236gVupG2UoFENvRYQC2Ume62Vtgd3j7rWxo1Z/09GHYdUUYGk
sxDRB0xdX9aqojf7yCMt67IRK2d4bA3sdDHFBws1PrOKF/mD+b0wNCE1a9uwI5Vn
6fSnMbwGgesachqHtde7rc10dmjP0m/vaxopDf1Qaw89QIMDUJRbnl0CgYEA3d2f
tHFs/9bTk4T3vY04TNwMvyDdirekeMF5o7R0qNRDmWUKanaximdde700UtwfMFOM
nc8cxtkSffvpK3HJq3cZs8sLRjhubHd+7cvGVq+rVA/fxu6PKQM2RR0ESRHHHTsc
HpVkcYPR8XQDLJbjtqeSVStkcJLnzQWZ+frqTUCgYBqud4rmZ7UsGYL37Y9pe7K
nsowC8X0ycvIKWXH8Gk3NPsgB+oAUVMVASOvxq/L4U0ythw3f5p2NYI8PLN+NTu3
NaX27v3T+k4DkZWuNtJpYpBB6ooCyT6QkTu7UzvIbtdPU06oTjVVl0lvJhaLaUqQ
qAt6YHoYJVA22trPXXwu+QKBgBtmqbjBYXLfd1X60BYJ1JM5giGAz5u4Ponja0B6
owXO4WJqiWrUqeysA3Gq0cAOC5QOXymH8Mfm01Bv8kY5UWzp0rTP3BSMF40x301F
g4NlQsWpCDwpuRaQND4DNqp/ToEfscNdM/Ow4hbt+w5g+ozUF0R7PsyHs7RzrGi8
yroZAoGARH+hXAOSUpZDFQR9tj75QL3cQFN3621EPbQUqg62L/Tny5FwOHsZJcVj
nBL7FTvbGivIxbAm/AEJNMykLUkUVDmDw1KH3xdZXDtlh2u+CUzTdUMgeHa2RSo4
BzWZCvQhuDVOB624M6ExhuD+4ES12JmthDCIHt4juW8vtU5RF08=
-----END RSA PRIVATE KEY-----
~
~
~
~
~
~
~
~
~
~
-- INSERT --
27,30 All
```

Nat gateway is not connected hence internet is not accessible in private server:

[illegible]

CASE 2

Nat and internet gateway destination should be 0.0.0.0/0

Updated routes for rtb-0e28782c854e7e75e / RTPRI successfully
Details

rtb-0e28782c854e7e75e / RTPRI

Details info

Route table ID
rtb-0e28782c854e7e75e

VPC
vpc-0e6ac1d2a0b78b439 | VPC01

Main
No

Owner ID
349660757927

Explicit subnet associations
subnet-09c89c52246dc47d / SUB22

Edge associations
-

Routes (2)

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	nat-018b3f2b4d03aaa7e	Active	No	Create Route
10.0.0.0/24	local	Active	No	Create Route Table

Private server is connected and accessing the internet

```
ec2-user@ip-10-0-0-118:~  
reset  
PS C:\Users\kanma> ssh -i "kanmani.pem" ec2-user@15.206.179.189  
#_   
~\_ #####_ Amazon Linux 2023  
~~ \_#####\   
~~ \_####|   
~~ \#/ ___ https://aws.amazon.com/linux/amazon-linux-2  
023   
~~ V~' '->   
~~~   
~~._.   
~~/_/___/   
~~/_/m/'   
Last login: Thu Oct 23 14:37:07 2025 from 103.175.108.232  
[ec2-user@ip-10-0-0-39 ~]$ cd /opt/  
[ec2-user@ip-10-0-0-39 opt]$ ssh -i "kanmani.pem" ec2-user@10.0.  
0.118  
#_   
~\_ #####_ Amazon Linux 2023  
~~ \_#####\   
~~ \_####|   
~~ \#/ ___ https://aws.amazon.com/linux/amazon-linux-2  
023   
~~ V~' '->   
~~~   
~~._.   
~~/_/___/   
~~/_/m/'   
Last login: Thu Oct 23 14:37:35 2025 from 10.0.0.39  
[ec2-user@ip-10-0-0-118 ~]$ ping google.com  
PING google.com (142.250.207.174) 56(84) bytes of data.  
64 bytes from pnbomb-bl-in-f14.1e100.net (142.250.207.174): icmp  
_seq=1 ttl=116 time=1.26 ms  
64 bytes from pnbomb-bl-in-f14.1e100.net (142.250.207.174): icmp  
_seq=2 ttl=116 time=0.874 ms  
64 bytes from pnbomb-bl-in-f14.1e100.net (142.250.207.174): icmp  
_seq=3 ttl=116 time=0.855 ms
```

```

#_
\_- ####_ Amazon Linux 2023
~~ \-#####\
~~ \###|
~~ \#/ ___ https://aws.amazon.com/linux/amazon-linux-2
023
~~ V~' '->
~~~ /
~~.-.- /
-/_ /
-/m/'
Last login: Thu Oct 23 14:37:35 2025 from 10.0.0.39
[ec2-user@ip-10-0-0-118 ~]$ ping google.com
PING google.com (142.250.207.174) 56(84) bytes of data.
64 bytes from pnbomb-bl-in-f14.1e100.net (142.250.207.174): icmp
_seq=1 ttl=116 time=1.26 ms
64 bytes from pnbomb-bl-in-f14.1e100.net (142.250.207.174): icmp
_seq=2 ttl=116 time=0.874 ms
64 bytes from pnbomb-bl-in-f14.1e100.net (142.250.207.174): icmp
_seq=3 ttl=116 time=0.855 ms
64 bytes from pnbomb-bl-in-f14.1e100.net (142.250.207.174): icmp
_seq=4 ttl=116 time=0.840 ms
^C
--- google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 0.840/0.957/1.261/0.175 ms
[ec2-user@ip-10-0-0-118 ~]$ client_loop: send disconnect: Connec
tion reset
PS C:\Users\kanma> |

```