

Yeshwanth Chauhan

Created Nat instance and connected public machine to private machine

The image displays two screenshots of the AWS Management Console, illustrating the setup of a Virtual Private Cloud (VPC) and its associated subnets.

Top Screenshot: VPC Dashboard

The top screenshot shows the "Your VPCs (1/1)" page. A table lists the VPCs:

Name	env	VPC ID	State	IPv4 CIDR	IPv6 CIDR	Main route table
MyVpc...	-	vpc-05eaf17e52332113d	Available	172.18.0.0/16	-	rtb-007df26fa141e8634 / mainRoute

The "Details" tab for the VPC "vpc-05eaf17e52332113d / MyVpcNat01" is expanded, showing the following configuration:

- VPC ID: vpc-05eaf17e52332113d
- State: Available
- DNS hostnames: Disabled
- DNS resolution: Enabled
- Tenancy: Default
- DHCP option set: dopt-0512a890e10487703
- Main route table: rtb-007df26fa141e8634 / mainRoute
- Main network ACL: acl-0364d889a0406270c
- Default VPC: No
- IPv4 CIDR: 172.18.0.0/16
- IPv6 pool: -
- IPv6 CIDR (Network border group): -
- Network Address Usage metrics: Disabled
- Route 53 Resolver DNS Firewall rule groups: -
- Owner ID: 471963814578

Bottom Screenshot: Subnets Dashboard

The bottom screenshot shows the "Subnets (2)" page. A table lists the subnets:

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
Sub01	subnet-03b0694ca69de23f2	Available	vpc-05eaf17e52332113d My...	172.18.0.0/24	-
sub02	subnet-08e24cf7e2f753aff	Available	vpc-05eaf17e52332113d My...	172.18.1.0/24	-

The "Select a subnet" section is visible below the table.

Yeshwanth Chauhan

Created Nat instance and connected public machine to private machine

The screenshot displays the AWS Management Console interface for Route Tables in the us-east-1 region. The left sidebar shows the navigation menu with 'Route tables' selected under the 'Virtual private cloud' section. The main content area shows a list of route tables for a specific VPC.

Route tables (2)

	Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Ow...
<input type="checkbox"/>	mainRoute	rtb-007df26fa141e8634	-	-	Yes	vpc-05eaf17e52332113d My...	47196..
<input type="checkbox"/>	secondaryRoute	rtb-03abbffbc7ae23b4b	subnet-08e24cf7e2f753...	-	No	vpc-05eaf17e52332113d My...	47196..

Below the table, there is a section titled 'Select a route table' with a search bar and a list of route tables. The 'mainRoute' is selected, and the 'Routes' tab is active.

rtb-007df26fa141e8634 / mainRoute

Details | **Routes** | Subnet associations | Edge associations | Route propagation | Tags

Routes (2)

Destination	Target	Status	Propagated
0.0.0.0/0	igw-006a7aa2f3fc0337c	Active	No
172.18.0.0/16	local	Active	No

Yeshwanth Chauhan

Created Nat instance and connected public machine to private machine

The image consists of two screenshots of the AWS Management Console, specifically the VPC dashboard in the us-east-1 region.

Top Screenshot: Route Tables

The 'Route tables (1/2)' page shows a list of route tables. The 'secondaryRoute' is selected, and its details are shown below.

Name	Route table ID	Explicit subnet associat...	Edge associations	Main	VPC	Own...
mainRoute	rtb-007df26fa141e8634	-	-	Yes	vpc-05eaf17e52332113d My...	47196...
secondaryRoute	rtb-03abbfbc7ae23b4b	subnet-08e24cf7e2f753...	-	No	vpc-05eaf17e52332113d My...	47196...

The 'secondaryRoute' details show two routes:

Destination	Target	Status	Propagated
0.0.0.0/0	eni-027e15c38206c996f	Active	No
172.18.0.0/16	local	Active	No

Bottom Screenshot: Internet Gateways

The 'Internet gateways (1/1)' page shows a list of internet gateways. The 'myig01' is selected, and its details are shown below.

Name	Internet gateway ID	State	VPC ID	Owner
myig01	igw-006a7aa2f3fc0337c	Attached	vpc-05eaf17e52332113d MyVpcNat01	471963814578

The 'myig01' details show the following information:

Internet gateway ID	State	VPC ID	Owner
igw-006a7aa2f3fc0337c	Attached	vpc-05eaf17e52332113d MyVpcNat01	471963814578

Yeshwanth Chauhan

Created Nat instance and connected public machine to private machine

The image displays two screenshots of the AWS Management Console, specifically the EC2 Instances page, illustrating the setup of a NAT instance and its connection to a public machine.

Top Screenshot: VirtualMachine2 Instance Details

The top screenshot shows the details for the instance **VirtualMachine2** (Instance ID: **i-0047672e748072766**). The instance is in the **Running** state, located in the **us-east-1a** Availability Zone. The Private IP address is **172.18.1.77**, and the Subnet ID is **subnet-08e24cf7e2f753aff**.

Bottom Screenshot: JumpServer Instance Details

The bottom screenshot shows the details for the instance **JumpServer** (Instance ID: **i-09f6349448ddaa59d**). The instance is in the **Running** state, located in the **us-east-1a** Availability Zone. The Private IP address is **172.18.0.245**, and the Subnet ID is **subnet-03b0694ca69de23f2**.

Both screenshots show the **Instance summary** tab, which includes details such as the Instance ID, Instance state, Private IP address, Public IP address, and Subnet ID. The **JumpServer** instance also shows a **Public IP address** of **3.92.243.188**.

Yeshwanth Chauhan

Created Nat instance and connected public machine to private machine

The image displays two screenshots of the AWS Management Console, specifically the EC2 Instances page, illustrating the setup of a NAT instance to connect a public machine to a private machine.

Top Screenshot: Shows the 'Instances (1/4)' list. The 'NATInstance' (i-0a008879dbb01212d) is selected. The 'Instance: i-0a008879dbb01212d (NATInstance)' details are shown, including the 'Instance summary' tab. The instance is in the 'Running' state, located in 'us-east-1a' availability zone, with a private IP address of 172.18.0.10 and a public IP address of 54.224.24.243.

Bottom Screenshot: Shows the 'Networking' tab for the selected NAT instance. The 'Networking details' section is expanded, showing the 'Public IPv4 address' (54.224.24.243) and the 'Subnet ID' (subnet-03b0694ca69de23f2). The 'Private IPv4 addresses' section shows the 'Private IP address' (172.18.0.10) and the 'Private IP DNS name (IPv4 only)' (ip-172-18-0-10.ec2.internal). The 'VPC ID' is vpc-05eaf17e52332113d (MyVpcNat01).

The console interface includes a sidebar with navigation options like 'EC2 Dashboard', 'Instances', 'Images', and 'Launch Templates'. The top navigation bar shows the 'us-east-1' region and the 'AWS' logo. The bottom status bar indicates the time as 12:41 AM on 25-Jan-23.

Yeshwanth Chauhan

Created Nat instance and connected public machine to private machine

The screenshot displays the AWS Management Console interface for an EC2 instance. The terminal window shows the following commands and output:

```
Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
[ec2-user@ip-172-18-1-77 ~]$ ls -l
total 4
-rw-rw-r-- 1 ec2-user ec2-user 1680 Jan 24 18:20 newpey.pem
[ec2-user@ip-172-18-1-77 ~]$ chmod 400 "newpey.pem"
[ec2-user@ip-172-18-1-77 ~]$ ls -l
total 4
-r----- 1 ec2-user ec2-user 1680 Jan 24 18:20 newpey.pem
[ec2-user@ip-172-18-1-77 ~]$ ssh -i "newpey.pem" ec2-user@172.18.1.77
Last login: Tue Jan 24 17:27:37 2023 from 172.18.0.245

 _ _ _ _ _
| | | | |
|_|_|_|_|_|_ Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-18-1-77 ~]$ ping yahoo.com
PING yahoo.com (74.6.231.20) 56(84) bytes of data.
^C
--- yahoo.com ping statistics ---
614 packets transmitted, 0 received, 100% packet loss, time 627688ms

[ec2-user@ip-172-18-1-77 ~]$ ping yahoo.com
PING yahoo.com (74.6.231.21) 56(84) bytes of data.
^C
--- yahoo.com ping statistics ---
151 packets transmitted, 0 received, 100% packet loss, time 153590ms

i-09f6349448ddaa59d (JumpServer)
PublicIPs: 3.92.243.188 PrivateIPs: 172.18.0.245

Activate Windows
Go to Settings to activate Windows.
```

The terminal output continues with successful ping tests to public machines:

```
[ec2-user@ip-172-18-1-77 ~]$ ping yahoo.com
PING yahoo.com (74.6.231.21) 56(84) bytes of data.
^C
--- yahoo.com ping statistics ---
151 packets transmitted, 0 received, 100% packet loss, time 153590ms

[ec2-user@ip-172-18-1-77 ~]$ ping 60cars.com
PING 60cars.com (184.168.114.114) 56(84) bytes of data.
^C
--- 60cars.com ping statistics ---
4 packets transmitted, 0 received, 100% packet loss, time 3071ms

[ec2-user@ip-172-18-1-77 ~]$ ping google.com
PING google.com (142.251.16.101) 56(84) bytes of data.
64 bytes from bl-in-f101.1e100.net (142.251.16.101): icmp_seq=1480 ttl=48 time=3.23 ms
64 bytes from bl-in-f101.1e100.net (142.251.16.101): icmp_seq=1481 ttl=48 time=2.67 ms
64 bytes from bl-in-f101.1e100.net (142.251.16.101): icmp_seq=1482 ttl=48 time=2.59 ms
64 bytes from bl-in-f101.1e100.net (142.251.16.101): icmp_seq=1483 ttl=48 time=2.60 ms
64 bytes from bl-in-f101.1e100.net (142.251.16.101): icmp_seq=1484 ttl=48 time=2.66 ms
64 bytes from bl-in-f101.1e100.net (142.251.16.101): icmp_seq=1485 ttl=48 time=2.61 ms
64 bytes from bl-in-f101.1e100.net (142.251.16.101): icmp_seq=1486 ttl=48 time=3.41 ms
^C
--- google.com ping statistics ---
1486 packets transmitted, 7 received, 99% packet loss, time 1520493ms
rtt min/avg/max/mdev = 2.599/2.829/3.415/0.325 ms
[ec2-user@ip-172-18-1-77 ~]$
```

The AWS console interface shows the instance ID i-09f6349448ddaa59d (JumpServer) and the public IP address 3.92.243.188. The console also displays the "Activate Windows" watermark.