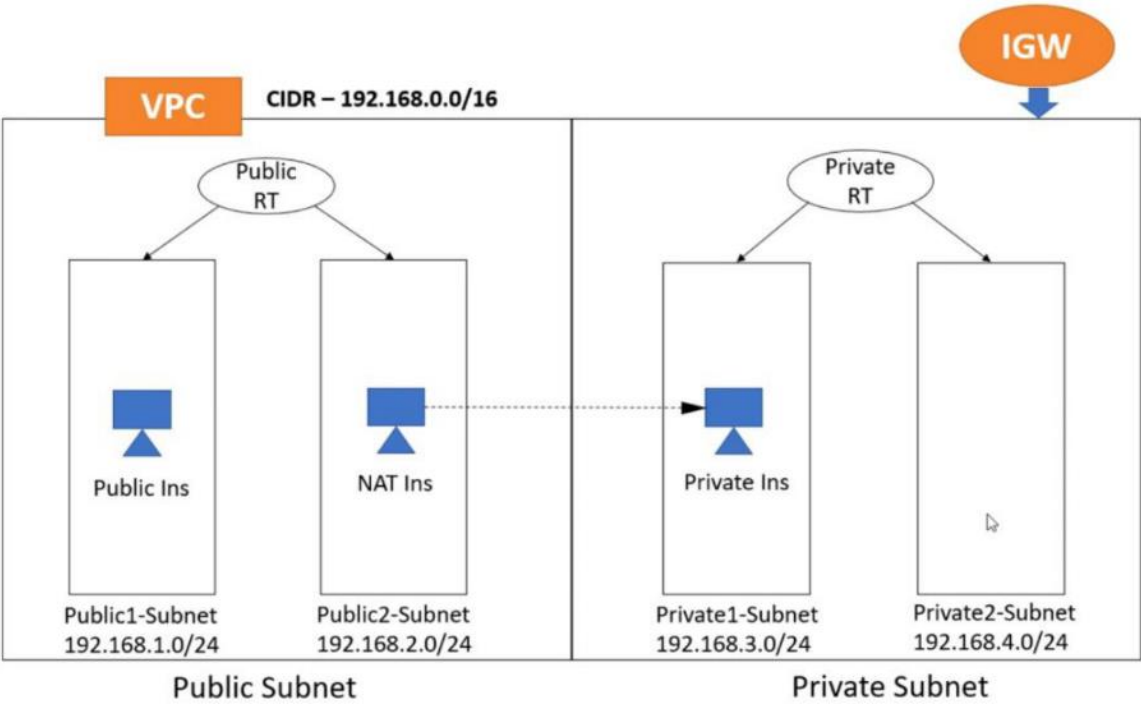


Making this connection as shown below



Setting up VPC and related subnets, igw and routing tables

aws

Services

Search

[Alt+S]

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Your VPCs (1)

Info

Last updated 1 minute ago

Actions

Create VPC

Search

	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	22bps1101-vpc	vpc-016ccbeff93b79a62	Available	192.168.0.0/16	-

Select a VPC above

VPC dashboard

EC2 Global View

Filter by VPC

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Filter by VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

You have successfully created 4 subnets: subnet-094d375312355095f, subnet-067e13915bb933a22, subnet-0e2824a1920fd4c85, subnet-0f9b5e2f82e63fa02

Subnets (4)

Info

Last updated less than a minute ago

Actions

Create subnet

Find resources by attribute or tag

Subnet ID : subnet-094d375312355095f Subnet ID : subnet-067e13915bb933a22 Subnet ID : subnet-0e2824a1920fd4c85 Show more (+1)

Clear filters

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	public-subnet2-22bps1101	subnet-067e13915bb933a22	Available	vpc-016ccbeff93b79a62 22bp...	192.168.2.0/24
<input type="checkbox"/>	private-subnet2-22bps1101	subnet-0f9b5e2f82e63fa02	Available	vpc-016ccbeff93b79a62 22bp...	192.168.4.0/24
<input type="checkbox"/>	public-subnet1-22bps1101	subnet-094d375312355095f	Available	vpc-016ccbeff93b79a62 22bp...	192.168.1.0/24
<input type="checkbox"/>	private-subnet1-22bps1101	subnet-0e2824a1920fd4c85	Available	vpc-016ccbeff93b79a62 22bp...	192.168.3.0/24

Select a subnet

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
<input type="checkbox"/>	public-rt-22bps1101	rtb-0ca5a6262f84571a9	-	-	No	vpc-016ccbeff
<input type="checkbox"/>	private-rt-22bps1101	rtb-03f6c95d1bce0c529	-	-	No	vpc-016ccbeff

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Your VPCs

Internet gateways (1)

Info

Actions

Create internet gateway

Search

	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	22bps1101-igw	igw-0632a48cbd6a6249f	Detached	-	00916

Setting up all the instances ,NAT,Public,Private

Updated routes for rtb-0ca5a6262f84571a9 / public-rt-22bps1101 successfully

Details

VPC > Route tables > rtb-0ca5a6262f84571a9

rtb-0ca5a6262f84571a9 / public-rt-22bps1101

Actions

Details Info

Route table ID rtb-0ca5a6262f84571a9	Main No	Explicit subnet associations -	Edge associations -
VPC vpc-016ccbeff93b79a62 22bps1101-vpc	Owner ID 009160066859		

- Routes
- Subnet associations
- Edge associations
- Route propagation
- Tags

Routes (2) Both Edit routes

Filter routes

< 1 > ⚙

Destination	Target	Status	Propagated
0.0.0.0/0	igw-0632a48cbd...	Active	No
192.168.0.0/16	local	Active	No

EC2 > Instances > i-0dc56702c51d0d254

Instance summary for i-0dc56702c51d0d254 (22bps1101-publicinstance) Info

Updated less than a minute ago

Refresh

Connect

Instance state

Actions

Instance ID i-0dc56702c51d0d254 (22bps1101-publicinstance)	Public IPv4 address 13.126.4.25 open address	Private IPv4 addresses 192.168.1.30
IPv6 address -	Instance state Pending	Public IPv4 DNS -
Hostname type IP name: ip-192-168-1-30.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-192-168-1-30.ap-south-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 13.126.4.25 [Public IP]	VPC ID vpc-016ccbeff93b79a62 (22bps1101-vpc)	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-094d375312355095f (public-subnet1-22bps1101)	
IMDSv2 Required	Instance ARN arn:aws:ec2:ap-south-1:009160066859:instance/i-0dc56702c51d0d254	

Instance summary for i-08901c83a161855d3 (NAT-22bps1101) Info

Updated less than a minute ago

Refresh

Connect

Instance state ▼

Actions ▼

<div>Instance ID</div> <div> i-08901c83a161855d3 (NAT-22bps1101)</div>	<div>Public IPv4 address</div> <div> 13.232.225.58 open address </div>	<div>Private IPv4 addresses</div> <div> 192.168.2.112</div>
<div>IPv6 address</div> <div>–</div>	<div>Instance state</div> <div> Running</div>	<div>Public IPv4 DNS</div> <div>–</div>
<div>Hostname type</div> <div>IP name: ip-192-168-2-112.ap-south-1.compute.internal</div>	<div>Private IP DNS name (IPv4 only)</div> <div> ip-192-168-2-112.ap-south-1.compute.internal</div>	
<div>Answer private resource DNS name</div> <div>–</div>	<div>Instance type</div> <div>t2.micro</div>	<div>Elastic IP addresses</div> <div>–</div>
<div>Auto-assigned IP address</div> <div> 13.232.225.58 [Public IP]</div>	<div>VPC ID</div> <div> vpc-016ccbeff93b79a62 (22bps1101-vpc) </div>	<div>AWS Compute Optimizer finding</div> <div> Opt-in to AWS Compute Optimizer for recommendations. Learn more </div>
<div>IAM Role</div> <div>–</div>	<div>Subnet ID</div> <div> subnet-067e13915bb933a22 (public-subnet2-22bps1101) </div>	<div>Auto Scaling Group name</div> <div>–</div>
<div>IMDSv2</div> <div>Optional</div> <div> EC2 recommends setting IMDSv2 to required Learn more </div>	<div>Instance ARN</div> <div> arn:aws:ec2:ap-south-1:009160066859:instance/i-08901c83a161855d3</div>	

Instance summary for i-05193c5d35c082ffd (22bps1101-pvtinst1) Info

Updated less than a minute ago

Refresh

Connect

Instance state ▼

Actions ▼

<div>Instance ID</div> <div> i-05193c5d35c082ffd (22bps1101-pvtinst1)</div>	<div>Public IPv4 address</div> <div>–</div>	<div>Private IPv4 addresses</div> <div> 192.168.3.223</div>
<div>IPv6 address</div> <div>–</div>	<div>Instance state</div> <div> Running</div>	<div>Public IPv4 DNS</div> <div>–</div>
<div>Hostname type</div> <div>IP name: ip-192-168-3-223.ap-south-1.compute.internal</div>	<div>Private IP DNS name (IPv4 only)</div> <div> ip-192-168-3-223.ap-south-1.compute.internal</div>	
<div>Answer private resource DNS name</div> <div>–</div>	<div>Instance type</div> <div>t2.micro</div>	<div>Elastic IP addresses</div> <div>–</div>
<div>Auto-assigned IP address</div> <div>–</div>	<div>VPC ID</div> <div> vpc-016ccbeff93b79a62 (22bps1101-vpc) </div>	<div>AWS Compute Optimizer finding</div> <div> Opt-in to AWS Compute Optimizer for recommendations. Learn more </div>
<div>IAM Role</div> <div>–</div>	<div>Subnet ID</div> <div> subnet-0e2824a1920fd4c85 (private-subnet1-22bps1101) </div>	<div>Auto Scaling Group name</div> <div>–</div>
<div>IMDSv2</div> <div>Required</div>	<div>Instance ARN</div> <div> arn:aws:ec2:ap-south-1:009160066859:instance/i-05193c5d35c082ffd</div>	

Public instance connected

```
aws Services 🔍 📺 🔔 ? ⚙️ Mumbai ▼ Naman ▼

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

[ec2-user@ip-192-168-1-30 ~]$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=113 time=1.72 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=113 time=1.77 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=113 time=1.69 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=113 time=1.69 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=113 time=1.68 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=113 time=1.65 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=113 time=1.69 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=113 time=1.73 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=113 time=1.69 ms
```

NAT Instance connected using putty

The screenshot displays the AWS Management Console interface for an EC2 instance. The main panel shows the 'Instance summary' for instance ID **i-08901c83a161855d3**. The instance is in the **Running** state, with a hostname of **ip-192-168-2-112.ap-south-1.compute.internal**. The console also shows the instance's ID, name, and private IP address (**192.168.2.112**).

Overlaid on the console is a terminal window titled **ec2-user@ip-192-168-2-112:~**. The terminal shows the user logging in as **ec2-user** and authenticating with a public key. After running **sudo yum update**, the user executes **ping 8.8.8.8**. The output shows 12 successful ping requests with varying response times (e.g., 1.17 ms, 1.23 ms, 1.28 ms).

Private instance connected

aws

Services

Search

EC2

...

i-08901c83a161855d3

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Public IPv4 address

13.232.225.58 | open address

Private IPv4 addresses

192.168.2.112

IPv6 address

Administrator: Windows PowerShell

PS C:\Users\naman\OneDrive\Desktop> pscp -i publicnat.ppk 1101pvtinst1.pem ec2-user@13.232.225.58:/home/ec2-user 1101pvtinst1.pem | 1 kB | 1.6 kB/s | ETA: 00:00:00 | 100%

PS C:\Users\naman\OneDrive\Desktop>

ec2-user@ip-192-168-2-112:~

login as: ec2-user

Authenticating with public key "imported-openssh-key" from agent

Last login: Sat Sep 21 06:50:45 2024 from 115.240.194.54

Amazon Linux AMI

https://aws.amazon.com/amazon-linux-ami/2018.03-release-notes/

16 package(s) needed for security, out of 18 available

Run "sudo yum update" to apply all updates.

[ec2-user@ip-192-168-2-112 ~]\$ ls

1101pvtinst1.pem

[ec2-user@ip-192-168-2-112 ~]\$

