



VPC Project

-Swaraj Bhoite



Step 1 Create VPC

CreateVpc | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateVpc:createMode=vpcOnly

Services

Search

[Alt+S]

VPC EC2 S3

N. Virginia Aadesh

VPC > Your VPCs > Create VPC

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.

VPCPractical

IPv4 CIDR block Info

IPv4 CIDR manual input

IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.11.0.0/16

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

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

Default

Tags

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

Q Name X

Q VPCPractical X

Remove tag

Add tag

You can add 49 more tags

Cancel

Create VPC

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Tomorrow's high
Near record

Search

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26-05-2024

Step 2 - Create Internet gateway and attach to VPC

igws | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#igws:

Services Search [Alt+S]

VPC EC2 S3

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
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups

DNS firewall

- Rule groups
- Domain lists

Internet gateways (2) Info

Search

	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	-	igw-030ac7269d9dec2cb	Attached	vpc-037cb8cbbf18bf3a2	533267244156
<input type="checkbox"/>	VPCPracticalIG	igw-06ccca3c90460c5f5	Attached	vpc-0690a080a9b60a35c VPCPractical	533267244156

Select an internet gateway above

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15:33 26-05-2024

Step 3 - Create 3 Public and 2 Private Subnets

CreateSubnet | VPC Console

us-east-1.console.aws.amazon.com/vpccconsole/home?region=us-east-1#CreateSubnet:

aws

Services

Search

[Alt+S]

VPC

EC2

S3

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 5

Subnet name

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

Public1

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 VPC CIDR block

Info

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

10.11.0.0/16

IPv4 subnet CIDR block

10.11.1.0/24

256 IPs

< > ^ v

Tags - optional

Key

Value - optional

Q Name

X

Q Public1

X

Remove

Add new tag

You can add 49 more tags.

Remove

Subnet 2 of 5

Subnet name

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

Public2

Public 1Subnet

us-east-1.console.aws.amazon.com/vpccconsole/home?region=us-east-1#CreateSubnet:

aws

Services

Search

[Alt+S]

VPC

EC2

S3

Subnet 2 of 5

Subnet name

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

Public2

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 VPC CIDR block

Info

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

10.11.0.0/16

IPv4 subnet CIDR block

10.11.2.0/24

256 IPs

< > ^ v

Tags - optional

Key

Value - optional

Q Name

Q Public2

Remove

Add new tag

You can add 49 more tags.

Remove

Subnet 3 of 5

Subnet name

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

Public3

The name can be up to 256 characters long.

Availability Zone

Info

Public 2 Subnet

CreateSubnet | VPC Console

us-east-1.console.aws.amazon.com/vpccconsole/home?region=us-east-1#CreateSubnet:

aws Services Search [Alt+S]

VPC EC2 S3

Remove

Subnet 3 of 5

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

Public3

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 VPC CIDR block [Info](#)
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.

10.11.0.0/16

IPv4 subnet CIDR block

10.11.3.0/24 256 IPs

< > ^ v

Tags - optional

Key	Value - optional	
<div>Q Name X</div>	<div>Q Public3 X</div>	<div>Remove</div>
<div>Add new tag</div> <p>You can add 49 more tags.</p> <div>Remove</div>		

Subnet 4 of 5

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

Private1

Public 3 Subnet

Step 3 - Create 3 Public and 2 Private Subnets

CreateSubnet | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateSubnet:

aws Services Search [Alt+S]

VPC EC2 S3

Subnet 4 of 5

Subnet name

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

Private1

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 VPC CIDR block

Info

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

10.11.0.0/16

IPv4 subnet CIDR block

10.11.4.0/24

256 IPs

Tags - optional

Key

Value - optional

Q Name X

Q Private1 X

Remove

Add new tag

You can add 49 more tags.

Remove

Subnet 5 of 5

Subnet name

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

Private2

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 VPC CIDR block

Info

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

10.11.0.0/16

IPv4 subnet CIDR block

10.11.5.0/24

256 IPs

Tags - optional

Key

Value - optional

Q Name X

Q Private2 X

Remove

Add new tag

You can add 49 more tags.

Remove

CloudShell

Feedback

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Private1Subnet

CreateSubnet | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateSubnet:

aws Services Search [Alt+S]

VPC EC2 S3

You can add 49 more tags.

Remove

Subnet 5 of 5

Subnet name

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

Private2

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 VPC CIDR block

Info

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

10.11.0.0/16

IPv4 subnet CIDR block

10.11.5.0/24

256 IPs

Tags - optional

Key

Value - optional

Q Name X

Q Private2 X

Remove

Add new tag

You can add 49 more tags.

Remove

CloudShell

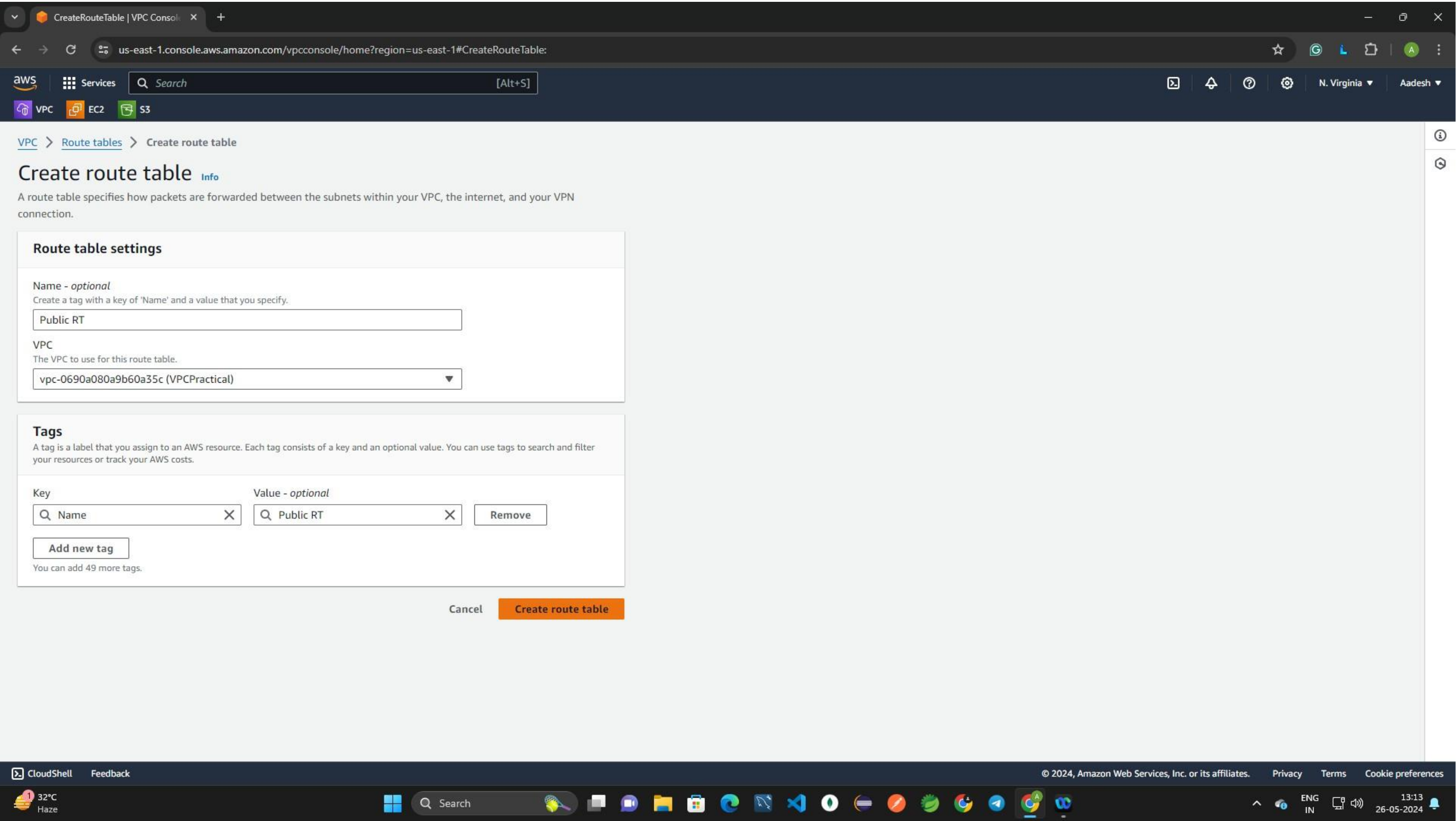
Feedback

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Search

Private2 Subnet

Step 4 - Rename Main RT and Create Public RT



Step 4 - Rename Main RT and Create Public RT -

RouteTables | VPC Console

us-east-1.console.aws.amazon.com/vpccconsole/home?region=us-east-1#RouteTables:

aws Services Search [Alt+S]

VPC EC2 S3

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
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

- Network ACLs
- Security groups

DNS firewall

- Rule groups
- Domain lists

Route tables (3) Info

Find resources by attribute or tag

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
<input type="checkbox"/>	Main RT	rtb-0bdef5d48b991525e	–	–	Yes	vpc-0690a080a9b60a35c VPC...	533267244156
<input type="checkbox"/>	Public RT	rtb-0d0bb89448ea1c591	3 subnets	–	No	vpc-0690a080a9b60a35c VPC...	533267244156
<input type="checkbox"/>	Defalut Main-RT	rtb-0f47269b150b38328	–	–	Yes	vpc-037cb8cbbf18bf3a2	533267244156

Select a route table

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Step 5 - Public RT > Edit Subnet Associations > Select All Public Subnets > Save association

EditRouteTableSubnetAssociati

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-0d0bb89448ea1c591

aws

Services

Search

[Alt+S]

VPC

EC2

S3

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VPC > Route tables > rtb-0d0bb89448ea1c591 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (3/5)

Filter subnet associations

< 1 > ⚙

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	Private1	subnet-0b7081bf4bf9cdd65	10.11.4.0/24	–	Main (rtb-0bdef5d48b991525e / Main RT)
<input checked="" type="checkbox"/>	Public3	subnet-0eca014245fc88d25	10.11.3.0/24	–	Main (rtb-0bdef5d48b991525e / Main RT)
<input type="checkbox"/>	Private2	subnet-052266c6ec185a367	10.11.5.0/24	–	Main (rtb-0bdef5d48b991525e / Main RT)
<input checked="" type="checkbox"/>	Public1	subnet-0e04a57472fec6020	10.11.1.0/24	–	Main (rtb-0bdef5d48b991525e / Main RT)
<input checked="" type="checkbox"/>	Public2	subnet-03d83315adf9c1579	10.11.2.0/24	–	Main (rtb-0bdef5d48b991525e / Main RT)

Selected subnets

subnet-0e04a57472fec6020 / Public1

subnet-03d83315adf9c1579 / Public2

subnet-0eca014245fc88d25 / Public3

Cancel

Save associations

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Step 6 - After Creating Public RT - Public RT > Routes > Edit routes > Add Internet gateway route

[illegible]

Step 7 - Select each Public subnets > Edit Subnet Settings > Enable auto-assign public IPv4 address

The screenshot shows the AWS Management Console interface for editing subnet settings. The browser address bar displays the URL: `us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#EditSubnetSettings:SubnetId=subnet-0e04a57472fec6020`. The console header includes the AWS logo, a search bar, and navigation links for VPC, EC2, and S3. The breadcrumb trail indicates the path: `VPC > Subnets > subnet-0e04a57472fec6020 > Edit subnet settings`.

The main content area is titled "Edit subnet settings" and contains the following sections:

- Subnet**: A table showing the Subnet ID (`subnet-0e04a57472fec6020`) and Name (`Public1`).
- Auto-assign IP settings**: A section with the description "Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet." It contains two checkboxes: "Enable auto-assign public IPv4 address" (checked) and "Enable auto-assign customer-owned IPv4 address" (disabled, with a note "Option disabled because no customer owned pools found.").
- Resource-based name (RBN) settings**: A section with the description "Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings." It contains two checkboxes: "Enable resource name DNS A record on launch" (unchecked) and "Enable resource name DNS AAAA record on launch" (unchecked). Below these are two radio buttons for "Hostname type": "Resource name" (unchecked) and "IP name" (checked).
- DNS64 settings**: A section with the description "Enable DNS64 to allow IPv6-only services in Amazon VPC to communicate with IPv4-only services and networks." It contains a checkbox "Enable DNS64" (unchecked).

The footer of the console shows the CloudShell button, a feedback link, and copyright information: "© 2024, Amazon Web Services, Inc. or its affiliates." The Windows taskbar at the bottom displays the system clock as 13:35 on 26-05-2024, along with various application icons and a search bar.

Step 8 - Launch Two EC 2 instances for each Subnet

Instances | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running;sort=tag:Name

aws Services Search [Alt+S]

VPC EC2 S3

EC2 Dashboard

EC2 Global View

Events

Console-to-Code Preview

Instances

Instances

Instance TypesLaunch TemplatesSpot RequestsSavings PlansReserved InstancesDedicated HostsCapacityReservations New

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

SnapshotsLifecycle Manager

Network & Security

Security Groups

Elastic IPsPlacement Groups

Instances (10) Info

Find Instance by attribute or tag (case-sensitive)

All states

Instance state = running

Clear filters

Connect

Instance state

Actions

Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IF
	Private1-EC2-1	i-0c32420d31e76c5b4	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	-	-	-
	Private1-EC2-2	i-0d565edc02f34431f	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	-	-	-
	Private2-EC2-1	i-0cfb8a0d00f741a32	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	-	-	-
	Private2-EC2-2	i-000956321a23f0015	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	-	-	-
	Public1-EC2-1	i-00d1b10d456195df0	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	107.21.68.93	-	-
	Public1-EC2-2	i-005cae062e0f05fd4	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	3.80.50.21	-	-
	Public2-EC2-1	i-095e543c8478e2f15	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	18.208.130.176	-	-
	Public2-EC2-2	i-0ecbe034a365146cf	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	54.175.162.243	-	-
	Public3-EC2-1	i-0833ee3cd7184d55d	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	100.27.204.31	-	-
	Public3-EC2-2	i-0bc3226ebfdcb9bec	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	-	54.165.23.150	-	-

Select an instance

CloudShell Feedback

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Search

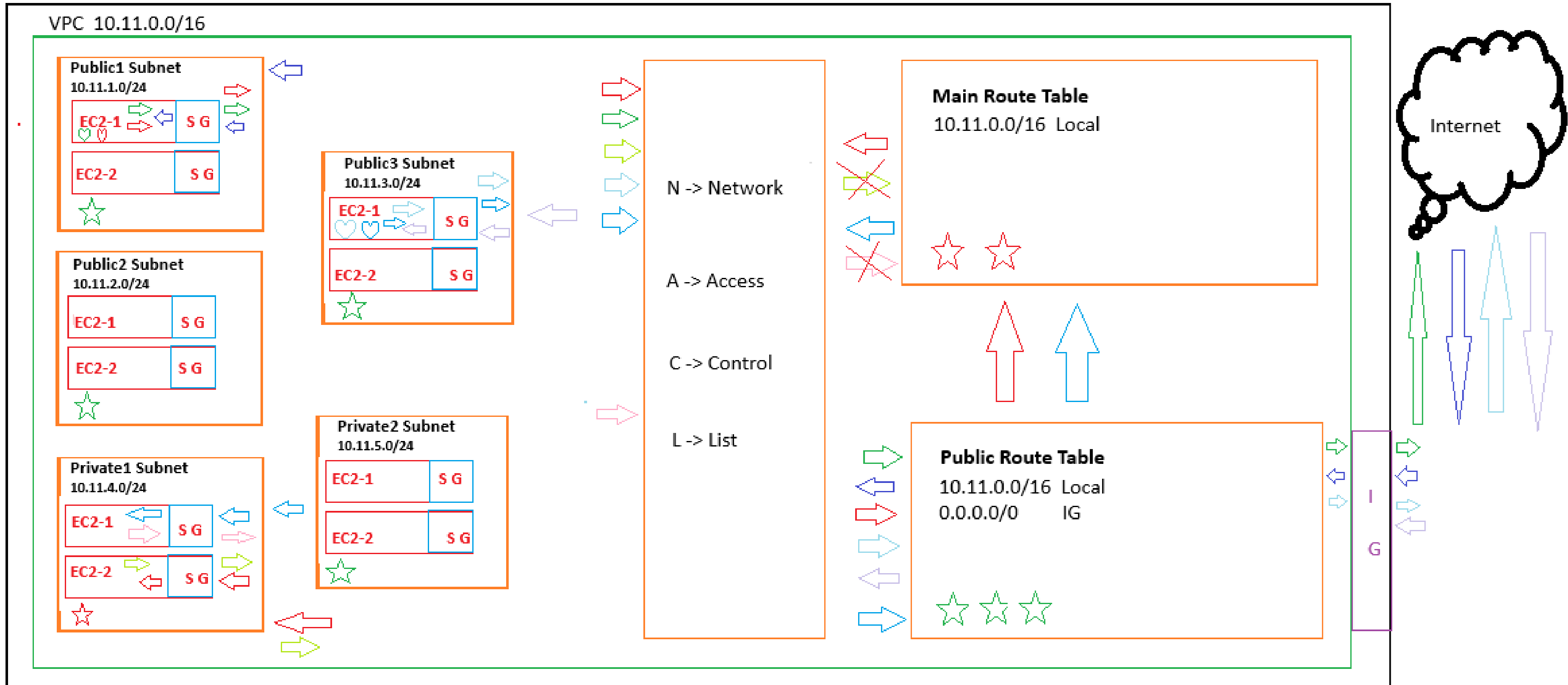
ENG IN

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Note - EC2 instance > N/w Settings edit > Selct VPC, Subnet, create Security grp and add All icmp 4 (Anywhere) in Security grp

VPC Network Flow Diagram

N. Virginia



Note - 1) In this way, we can check internet connection and internal communication with other remaining instances.

2) To check request and response from pc to machine, just open command prompt > ping -c Public_IP > Enter. We will get response from machine to our pc.

Step 9 - Check internet connection

```
ec2-user@ip-10-11-1-183:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
Register this system with Red Hat Insights: insights-client --register  
Create an account or view all your systems at https://red.ht/insights-dashboard  
[ec2-user@ip-10-11-1-183 ~]$ ping -c 2 google.com  
PING google.com (172.253.62.139) 56(84) bytes of data.  
64 bytes from bc-in-f139.1e100.net (172.253.62.139): icmp_seq=1 ttl=55 time=1.48 ms  
64 bytes from bc-in-f139.1e100.net (172.253.62.139): icmp_seq=2 ttl=55 time=1.62 ms  
  
--- google.com ping statistics ---  
2 packets transmitted, 2 received, 0% packet loss, time 1001ms  
rtt min/avg/max/mdev = 1.483/1.549/1.615/0.066 ms  
[ec2-user@ip-10-11-1-183 ~]$ ping -c 2 10.11.4.224  
PING 10.11.4.224 (10.11.4.224) 56(84) bytes of data.  
64 bytes from 10.11.4.224: icmp_seq=1 ttl=64 time=9.43 ms  
64 bytes from 10.11.4.224: icmp_seq=2 ttl=64 time=0.717 ms  
  
--- 10.11.4.224 ping statistics ---  
2 packets transmitted, 2 received, 0% packet loss, time 1002ms  
rtt min/avg/max/mdev = 0.717/5.074/9.431/4.357 ms  
[ec2-user@ip-10-11-1-183 ~]$
```

Checking internet Connection

Response Succesful

checking Private ip to connect

Response Succesful

Internet Connection checking and checking private IP availability to connect

Step 10 - Check internal communication

```
ec2-user@ip-10-11-1-183:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
[ec2-user@ip-10-11-1-183 ~]$ ping -c 2 google.com <-----
PING google.com (172.253.62.139) 56(84) bytes of data.
64 bytes from bc-in-f139.1e100.net (172.253.62.139): icmp_seq=1 ttl=55 time=1.48 ms
64 bytes from bc-in-f139.1e100.net (172.253.62.139): icmp_seq=2 ttl=55 time=1.62 ms

--- google.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms <-----
rtt min/avg/max/mdev = 1.483/1.549/1.615/0.066 ms
[ec2-user@ip-10-11-1-183 ~]$ ping -c 2 10.11.4.224 <-----
PING 10.11.4.224 (10.11.4.224) 56(84) bytes of data.
64 bytes from 10.11.4.224: icmp_seq=1 ttl=64 time=9.43 ms
64 bytes from 10.11.4.224: icmp_seq=2 ttl=64 time=0.717 ms

--- 10.11.4.224 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms <-----
rtt min/avg/max/mdev = 0.717/5.074/9.431/4.357 ms
[ec2-user@ip-10-11-1-183 ~]$ ssh -i "VPcPractNew.pem" ec2-user@10.11.4.224^C <-----
[ec2-user@ip-10-11-1-183 ~]$ vi VPcPractNew.pem
[ec2-user@ip-10-11-1-183 ~]$ chmod 400 VPcPractNew.pem
[ec2-user@ip-10-11-1-183 ~]$ ssh -i "VPcPractNew.pem" ec2-user@10.11.4.224
The authenticity of host '10.11.4.224 (10.11.4.224)' can't be established.
ED25519 key fingerprint is SHA256:P6INLGhfuf3KVesTwV6dUUSGf1lu2G9NczPriliPtIM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.11.4.224' (ED25519) to the list of known hosts.
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
[ec2-user@ip-10-11-4-224 ~]$ ping -c 2 google.com <-----
PING google.com (142.251.167.138) 56(84) bytes of data.

--- google.com ping statistics ---
2 packets transmitted, 0 received, 100% packet loss, time 1010ms <-----

[ec2-user@ip-10-11-4-224 ~]$ exit
logout
Connection to 10.11.4.224 closed.
[ec2-user@ip-10-11-1-183 ~]$
```

Connected to public1-ec2-1 instance, Checking internet Connection

Response Succesful

checking Private ip to connect

Respose Succesful

Connecting to private1-ec2-2 instance from public ec2 instance

Connected to private1-ec2-2 instance,, Checking internet connection

Response Received 0 because in the Private subnet there is no internet

Step 10 - Check internal communication

ec2-user@ip-10-11-5-233:~

```
[ec2-user@ip-10-11-3-246 ~]$ ping -c 2 amazon.com <----- Connected to public3-ec2-1 instance, Checking internet Connection
PING amazon.com (205.251.242.103) 56(84) bytes of data.
64 bytes from s3-console-us-standard.console.aws.amazon.com (205.251.242.103): icmp_seq=1 ttl=247 time=0.510 ms
64 bytes from s3-console-us-standard.console.aws.amazon.com (205.251.242.103): icmp_seq=2 ttl=247 time=0.534 ms

--- amazon.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms <----- Response Successful
rtt min/avg/max/mdev = 0.510/0.522/0.534/0.012 ms
[ec2-user@ip-10-11-3-246 ~]$ ssh -i "VPcPractNew.pem" ec2-user@10.11.5.233^C <----- Connecting to private2-ec2-1 instance from public ec2 instance
[ec2-user@ip-10-11-3-246 ~]$ vi VPcPractNew.pem
[ec2-user@ip-10-11-3-246 ~]$ chmod 400 VPcPractNew.pem
[ec2-user@ip-10-11-3-246 ~]$ ssh -i "VPcPractNew.pem" ec2-user@10.11.5.233
The authenticity of host '10.11.5.233 (10.11.5.233)' can't be established.
ED25519 key fingerprint is SHA256:YfbQjYFjODI6h2Tvcq8zRI8fxtU8ibYCdesyDCU5yLQ.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.11.5.233' (ED25519) to the list of known hosts.
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
[ec2-user@ip-10-11-5-233 ~]$ ping -c 2 100.27.204.31 <----- Connected to private2-ec2-1 instance, Checking for public instance
PING 100.27.204.31 (100.27.204.31) 56(84) bytes of data.

--- 100.27.204.31 ping statistics ---
2 packets transmitted, 0 received, 100% packet loss, time 1048ms <----- Response Received 0

[ec2-user@ip-10-11-5-233 ~]$ ping -c 2 amazon.com <----- Connected to private2-ec2-1 instance, Checking internet connection
PING amazon.com (54.239.28.85) 56(84) bytes of data.

--- amazon.com ping statistics ---
2 packets transmitted, 0 received, 100% packet loss, time 1040ms <----- Response Received 0 because in the Private subnet there is no internet

[ec2-user@ip-10-11-5-233 ~]$ █
```

Internet Connection checking, internal communication (public3-ec2-1 instance and private2-ec2-1 instance)

Note - In this way we can communicate internally with other remaining instances

Step 11- Deletion

