

PROJECT 1 : VPC PEERING

SS1 : VPC LIST

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Assignment - Google Drive

VPC Management Console

+

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#vpcs

Services

Ganesh Chandrakant Dandavale

Mumbai

Support

New VPC Experience

Tell us what you think

VPC Dashboard

Filter by VPC:

Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

SECURITY

Network ACLs

Security Groups

VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private Gateways

Site-to-Site VPN Connections

Your VPCs (3)

Info

Filter VPCs

Name

VPC ID

State

IPv4 CIDR

DHCP options set

Main route table

Main network ACL

Tenancy

vpc1

vpc-004fcb11a14001540

Available

172.17.0.0/16

dopt-5ed01935

rtb-00be56994dd1b6a64...

acl-0e425bf2273137eb1

Default

vpc2

vpc-0c5e5aedcd8bd8b55

Available

172.18.0.0/16

dopt-5ed01935

rtb-0f6cd45ac32c7ebbe /...

acl-0a79b7e49409987a8

Default

-

vpc-b4e90bdf

Available

172.31.0.0/16

dopt-5ed01935

rtb-6e4fef05

acl-d2f623b9

Default

Select a VPC above

Feedback

English (US)

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SS2 : IGW LIST

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VPC Management Console

+

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#igws:sort=ownerlid

Services

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Support

New VPC Experience

Tell us what you think

VPC Dashboard

Filter by VPC:

Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

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Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

SECURITY

Network ACLs

Security Groups

VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private Gateways

Site-to-Site VPN Connections

Internet gateways (3)

Info

Filter internet gateways

Name

Internet gateway ID

State

VPC ID

Owner

igw2

igw-004d3d5a1785ba5f1

Attached

vpc-0c5e5aedcd8bd8b55 | vpc2

774055385223

igw1

igw-0c057cb43f0b6cf6a

Attached

vpc-004fcb11a14001540 | vpc1

774055385223

-

igw-df5ae6b7

Attached

vpc-b4e90bdf

774055385223

Select an internet gateway above

Feedback

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SS3 : EDIT ROUT LIST

The screenshot shows the AWS Management Console interface for editing VPC routes. The breadcrumb navigation at the top reads 'Route Tables > Edit routes'. The main heading is 'Edit routes'. Below this, there is a table with the following data:

Destination	Target	Status	Propagated
172.17.0.0/16	local	active	No
0.0.0.0/0	igw-0c057cb43f0b6cf6a	active	No

At the bottom left, there is an 'Add route' button. At the bottom right, there are 'Cancel' and 'Save routes' buttons. A note at the bottom left states '* Required'.

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SS4 : SUBNET LIST

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Subnets | VPC Management Co...

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#subnets:sort=tag:Name

Services

New VPC Experience

Create subnet

Actions

Filter by tags and attributes or search by keyword

1 to 5 of 5

VPC Dashboard

Filter by VPC:

Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

SECURITY

Network ACLs

Security Groups

VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private Gateways

Site-to-Site VPN Connections

	Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4 A...	Availability Zone	Availability Zone ID	Route table	Network ACL
<input type="checkbox"/>	subnet1	subnet-0a0b8404bedcf93df	available	vpc-004fcb11a14001540 [...	172.17.17.0/24	250	ap-south-1a	aps1-az1	rtb-00be56994dd1b6a64 rout1	acl-0e425bf2273137eb1
<input type="checkbox"/>	subnet2	subnet-0e71f3612c30a4889	available	vpc-0c5e5aedcd8bd8b55 ...	172.18.18.0/24	250	ap-south-1a	aps1-az1	rtb-0f6cd45ac32c7ebbe rout2	acl-0a79b7e49409987a8
<input type="checkbox"/>		subnet-2d90e961	available	vpc-b4e90bdf	172.31.0.0/20	4091	ap-south-1b	aps1-az3	rtb-6e4fef05	acl-d2f623b9
<input type="checkbox"/>		subnet-3c46c547	available	vpc-b4e90bdf	172.31.16.0/20	4091	ap-south-1c	aps1-az2	rtb-6e4fef05	acl-d2f623b9
<input type="checkbox"/>		subnet-d2676cba	available	vpc-b4e90bdf	172.31.32.0/20	4091	ap-south-1a	aps1-az1	rtb-6e4fef05	acl-d2f623b9

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SS5 : INSTANCE DETAILS

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Assignment - Google Drive

Instances | EC2 Management Co...

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#instances:

Services

New EC2 Experience

Instances (1/2)

Info

Filter instances

1

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip
<input checked="" type="checkbox"/>	vpc1instance	i-0d00c0ac4982e5848	Running	t2.micro	2/2 checks ...	No alarms	ap-south-1a	-	13.233.97.190	-
<input type="checkbox"/>	vpc2instance	i-0461841ab06186084	Running	t2.micro	2/2 checks ...	No alarms	ap-south-1a	-	13.235.51.102	-

Instance: i-0d00c0ac4982e5848 (vpc1instance)

Details

Security

Networking

Storage

Status Checks

Monitoring

Tags

Instance summary

Info

Instance ID

i-0d00c0ac4982e5848 (vpc1instance)

Instance state

Running

Instance type

t2.micro

IAM Role

-

Public IPv4 address

13.233.97.190 | open address

Public IPv4 DNS

-

Elastic IP addresses

-

Subnet ID

subnet-0a0b8404bedcf93df (subnet1)

Private IPv4 addresses

172.17.17.199

Private IPv4 DNS

ip-172-17-17-199.ap-south-1.compute.internal

VPC ID

vpc-004fcb11a14001540 (vpc1)

Instance details

Info

Platform

windows

Platform details

AMI ID

ami-0b2f6494ff0b07a0e

AMI name

Monitoring

disabled

Termination protection

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ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

Services ▾

New EC2 Experience Tell us what you think x

EC2 Dashboard New

Events New

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups New

Elastic IPs New

Placement Groups New

Key Pairs New

Network Interfaces

Instances (1/2) Info

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip
<input type="checkbox"/>	vpc1instance	i-0d00c0ac4982e5848	Running	t2.micro	2/2 checks ...	No alarms +	ap-south-1a	-	13.233.97.190	-
<input checked="" type="checkbox"/>	vpc2instance	i-0461841ab06186084	Running	t2.micro	2/2 checks ...	No alarms +	ap-south-1a	-	13.235.51.102	-

Instance: i-0461841ab06186084 (vpc2instance)

Details Security Networking Storage Status Checks Monitoring Tags

Instance summary Info

Instance ID i-0461841ab06186084 (vpc2instance)

Instance state Running

Instance type t2.micro

IAM Role -

Public IPv4 address 13.235.51.102 | open address

Public IPv4 DNS -

Elastic IP addresses -

Subnet ID subnet-0e71f3612c30a4889 (subnet2)

Private IPv4 addresses 172.18.18.253

Private IPv4 DNS ip-172-18-18-253.ap-south-1.compute.internal

VPC ID vpc-0c5e5aedcd8bd8b55 (vpc2)

Platform windows

AMI ID ami-0b2f6494f0b07a0e

Platform details

AMI name

Monitoring disabled

Termination protection

Feedback English (US)

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SS6 : SUCCESS PUBLIC, RTO PRIVATE IP

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ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:

Services ▾

New EC2 Experience Tell us what you think x

EC2 Dashboard New

Events New

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups New

Elastic IPs New

Placement Groups New

Key Pairs New

Network Interfaces

Instances (1/2) Info

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip
<input checked="" type="checkbox"/>	vpc1instance	i-0d00c0ac4982e5848	Running	t2.micro	2/2 checks ...	No alarms +	ap-south-1a	-	13.233.97.190	-
<input type="checkbox"/>	vpc2instance	i-0461841ab06186084	Running	t2.micro	2/2 checks ...	No alarms +	ap-south-1a	-	13.235.51.102	-

13.235.51.102 - Remote Desktop Connection

Recycle Bin

Administrator: Command Prompt

```
C:\Users\Administrator>ping 13.233.97.190

Pinging 13.233.97.190 with 32 bytes of data:
Reply from 13.233.97.190: bytes=32 time<1ms TTL=127
Reply from 13.233.97.190: bytes=32 time<1ms TTL=127
Reply from 13.233.97.190: bytes=32 time<1ms TTL=127
Reply from 13.233.97.190: bytes=32 time<1ms TTL=127

Ping statistics for 13.233.97.190:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Administrator>ping 172.17.17.199

Pinging 172.17.17.199 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.17.17.199:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\Administrator>
```

Private IPv4 addresses 172.17.17.199

Private IPv4 DNS ip-172-17-17-199.ap-south-1.compute.internal

VPC ID vpc-004fcb11a14001540 (vpc1)

Monitoring disabled

Termination protection

Feedback English (US)

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The screenshot shows the AWS Management Console with the 'Instances' page selected. A Remote Desktop Connection window is open, showing a Windows command prompt with the following output:

```

Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.1518]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>ping 13.235.51.102

Pinging 13.235.51.102 with 32 bytes of data:
Reply from 13.235.51.102: bytes=32 time<1ms TTL=127
Reply from 13.235.51.102: bytes=32 time<1ms TTL=127
Reply from 13.235.51.102: bytes=32 time<1ms TTL=127

Ping statistics for 13.235.51.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Administrator>ping 172.18.18.253

Pinging 172.18.18.253 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.18.18.253:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\Administrator>
  
```

The background shows the AWS console with a table of instances:

Status	Availability zone	Public IPv4 DNS	Public IPv4 ...	Elastic Ip
+	ap-south-1a	-	13.233.97.190	-
+	ap-south-1a	-	13.235.51.102	-

Other details visible include Private IPv4 addresses (172.18.18.253), Private IPv4 DNS (ip-172-18-18-253.ap-south-1.compute.internal), VPC ID (vpc-0c5e5aedcd8bd8b55), and Monitoring disabled.

SS7 : PEERING WITH REQ AND ACCEPTOR

The screenshot shows the AWS Management Console with the 'VPC Peering Connections' page selected. A table lists the peering connections:

Name	Peering Connecti...	Status	Requester VPC	Acceptor VPC	Requester CIDRs	Acceptor CIDRs	Requester Owner	Acceptor Owner
PEER1	pcx-04e856d756c...	Active	vpc-004fcb11a140...	vpc-0c5e5aedcd8...	172.17.0.0/16	172.18.0.0/16	774055385223	774055385223

Below the table, the details for the peering connection 'pcx-04e856d756cbeb0d' are shown:

Requester VPC owner		Acceptor VPC owner	
Requester VPC ID	774055385223	Acceptor VPC ID	774055385223
Requester VPC Region	vpc-004fcb11a14001540	Acceptor VPC Region	vpc-0c5e5aedcd8bd8b55
Requester VPC CIDRs	Mumbai (ap-south-1)	Acceptor VPC CIDRs	Mumbai (ap-south-1)
VPC Peering Connection	172.17.0.0/16	Peering connection status	Active
Expiration time	pcx-04e856d756cbeb0d		

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Edit routes | VPC Management C

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#EditRoutes:routeTableId=rtb-00be56994dd1b6a64

aws

Services

Ganesh Chandrakant Dandavate

Mumbai

Support

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated	
172.17.0.0/16	local	active	No	
0.0.0.0/0	igw-0c057cb43f0b6cf6a	active	No	✖
172.18.0.0/16	pcx-04e856d756cebeb0d	active	No	✖

Add route

* Required

CancelSave routes

Feedback

English (US)

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Assignment - Google Drive

Edit routes | VPC Management C

ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#EditRoutes:routeTableId=rtb-0f6cd45ac32c7ebbe

aws

Services

Ganesh Chandrakant Dandavate

Mumbai

Support

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated	
172.18.0.0/16	local	active	No	
0.0.0.0/0	igw-004d3d5a1785ba5f1	active	No	✖
172.17.0.0/16	pcx-04e856d756cebeb0d	active	No	✖

Add route

* Required

CancelSave routes

Feedback

English (US)

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SS8 : SUCCESS FOR PRIVATE IP

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13.233.97.190 - Remote Desktop Connection

Recycle Bin

EC2 Feedback

EC2 Micros...

Administrator: Command Prompt

```
C:\Users\Administrator>ping 13.235.51.102

Pinging 13.235.51.102 with 32 bytes of data:
Reply from 13.235.51.102: bytes=32 time=1ms TTL=127
Reply from 13.235.51.102: bytes=32 time=1ms TTL=127
Reply from 13.235.51.102: bytes=32 time=1ms TTL=127
Reply from 13.235.51.102: bytes=32 time=1ms TTL=127

Ping statistics for 13.235.51.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Administrator>ping 172.18.18.253

Pinging 172.18.18.253 with 32 bytes of data:
Reply from 172.18.18.253: bytes=32 time=1ms TTL=128
Reply from 172.18.18.253: bytes=32 time=1ms TTL=128
Reply from 172.18.18.253: bytes=32 time=1ms TTL=128
Reply from 172.18.18.253: bytes=32 time=1ms TTL=128

Ping statistics for 172.18.18.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Administrator>
```

Security Groups **New**

Elastic IPs **New**

Placement Groups **New**

Key Pairs **New**

Network Interfaces

Instance details **Info**

Platform

windows

Platform details

AMI ID

ami-0b2f6494f0b07a0e

AMI name

Monitoring disabled

Termination protection

Feedback English (US)

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13.235.51.102 - Remote Desktop Connection

Recycle Bin

EC2 Feedback

EC2 Micros...

Administrator: Command Prompt

```
C:\Users\Administrator>ping 13.235.51.102

Pinging 13.235.51.102 with 32 bytes of data:
Reply from 13.235.51.102: bytes=32 time=1ms TTL=127
Reply from 13.235.51.102: bytes=32 time=1ms TTL=127
Reply from 13.235.51.102: bytes=32 time=1ms TTL=127
Reply from 13.235.51.102: bytes=32 time=1ms TTL=127

Ping statistics for 13.235.51.102:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Administrator>ping 172.17.17.199

Pinging 172.17.17.199 with 32 bytes of data:
Reply from 172.17.17.199: bytes=32 time=1ms TTL=128
Reply from 172.17.17.199: bytes=32 time=1ms TTL=128
Reply from 172.17.17.199: bytes=32 time=1ms TTL=128
Reply from 172.17.17.199: bytes=32 time=1ms TTL=128

Ping statistics for 172.17.17.199:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Administrator>
```

Lifecycle Manager

Network & Security

Security Groups **New**

Elastic IPs **New**

Placement Groups **New**

Key Pairs **New**

Network Interfaces

Instance details **Info**

Platform

windows

Platform details

AMI ID

ami-0b2f6494f0b07a0e

AMI name

Monitoring disabled

Termination protection

Subnet ID

subnet-0a0b8404bedcf93df (subnet1)

Public IPv4 address

13.233.97.190 | open address

Private IPv4 addresses

172.17.17.199

Public IPv4 DNS

ip-172-17-17-199.ap-south-1.compute.internal

Private IPv4 DNS

VPC ID

vpc-004fcb11a14001540 (vpc1)

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