

Date 9th july,2020:

Complete ip + network name = ipAddress

Dhcp server connects with the switch

/24 or /255.255.255.0 is same they provides us the range

Whole lab is known as subnet

In aws it is known as vpc(like border)

In openstack it is known as neutron

In vpc p stands for private that indicates whatever we are computing that will be private

C stands for computing and v stands for virtualisation

To create an entire infrastructure we need vpc as a service

Network access control layer (nacl)

The screenshot shows the AWS EC2 Management Console. The left sidebar is collapsed, showing options like New EC2 Experience, EC2 Dashboard, Events, Tags, Limits, Instances (with sub-options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), and Images (with sub-option AMIs). The main content area displays the Service health dashboard. It shows the Region as Asia Pacific (Mumbai) and the status as "This service is operating normally". Below this, the Zone status section lists three availability zones: ap-south-1a (aps1-az1), ap-south-1b (aps1-az3), and ap-south-1c (aps1-az2), all of which are operating normally. A link "Enable additional Zones" is also present. On the right side, there is a sidebar with links to Getting started guide, Documentation, All EC2 resources, Forums, Pricing, and Contact us. The bottom of the screen shows the Windows taskbar with various pinned icons.

vpc->official->default

> they create 3 labs for us (subnet1,subnet2,.....)

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	1	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot Instances	
Network	vpc-15f8e57d (default)	<input type="button"/> Create new VPC
Subnet	No preference (default subnet in any Availability Zone)	<input type="button"/> Create new subnet
Auto-assign Public IP	<input type="checkbox"/> No preference (default subnet in any Availability Zone)	
Placement group	subnet-d7ead0bf Default in ap-south-1a subnet-2f3e5563 Default in ap-south-1b	
Capacity Reservation	<input type="button"/> Create new Capacity Reservation	
IAM role	None <input type="button"/> Create new IAM role	

Subnets | VPC Management Console

Create subnet

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IP	IPv6 CIDR	Availability Zone
subnet-d7ead0bf	available	vpc-15f8e57d	172.31.32.0/20	4091	-	ap-south-1a	
subnet-881daff3	available	vpc-15f8e57d	172.31.16.0/20	4091	-	ap-south-1c	
subnet-2f3e5563	available	vpc-15f8e57d	172.31.0.0/20	4091	-	ap-south-1b	

The screenshot shows two consecutive pages from the AWS VPC Management Console.

VPC Dashboard:

- Left Sidebar:** Shows a tree view under "Your VPCs" with options like Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, and Endpoint Services.
- Main Content:** A table showing details for a single VPC named "vpc-15f8e57d". The table includes columns for VPC ID, State, IPv4 CIDR, IPv6 CIDR, DHCP options set, and Main Route table.

Subnets:

- Left Sidebar:** Shows a tree view under "Your VPCs" with options like Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, and Endpoint Services.
- Main Content:** A table showing three subnets for the VPC "vpc-15f8e57d". The subnets have names like "subnet-d7ead0bf", "subnet-881daaff3", and "subnet-2f3e5563", and are all in an "available" state.

if we want 6553 thn we want 2^{16} means 192.168.0.0/16

Where first will be reserved for the hostname

subnet>DHCP>SWITCH>router

Bigger network is known as local network every subnet is connected with the local network

If u want to create a subnet then we have to give the range

**In networking world 1st ip is reserved for networking name and last for broadcasting
In aws 1st is reserved for route table and 2nd is reserved for DHCP and they reserve 1 more for future reference**

In total they reserve 5 ip out of 0-255 we have only 251 ip's available for the outer world

The screenshot shows the AWS Management Console homepage. The left sidebar lists various AWS services under 'AWS services' and 'All services'. Under 'All services', 'Compute' is expanded, showing 'EC2' and 'Lightsail'. The main content area displays the 'Explore AWS' section, which includes links to 'Amazon SageMaker Resources' and 'RDS Multi-AZ'. Below this is the 'VPC Management Console' section, featuring a 'Create VPC' button and a table showing a single VPC entry: 'vpc-15f8e57d' with 'available' status and CIDR '172.31.0.0/16'. The table has columns for 'Name', 'VPC ID', 'State', 'IPv4 CIDR', 'IPv6 CIDR', and 'DHCP options set'. The right sidebar contains a 'Stay connected to your AWS resources on-the-go' section with a link to download the AWS Console Mobile App.

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. You must specify an IPv4 address range for your VPC. Specify the IPv4 address range as a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16. You cannot specify an IPv4 CIDR block larger than /16. You can optionally associate an IPv6 CIDR block with the VPC.

Name tag	lwvpc	i
IPv4 CIDR block*	192.168.0.0/16	i
IPv6 CIDR block	<input checked="" type="radio"/> No IPv6 CIDR Block <input type="radio"/> Amazon provided IPv6 CIDR block <input type="radio"/> IPv6 CIDR owned by me	i
Tenancy	Default	i
* Required	Cancel Create	

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Type here to search

vpcs | VPC Management Console ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#vpc:sort=VpcId

New VPC Experience Tell us what you think

Create VPC Actions

VPC Dashboard New

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

- Subnets
- Route Tables
- Internet Gateways New
- Egress Only Internet Gateways New
- DHCP Options Sets New

Filter by tags and attributes or search by keyword

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP
lwvpc	vpc-0eb7d493b74359f6c	available	192.168.0.0/16	-	dopt-57
	vpc-15f8e57d	available	172.31.0.0/16	-	dopt-57

Description CIDR Blocks Flow Logs Tags

VPC ID	vpc-0eb7d493b74359f6c	Tenancy	default
State	available	Default VPC	No
IPv4 CIDR	192.168.0.0/16	IPv6 CIDR	-
IPv6 Pool	-	DNS resolution	Enabled
Network ACL	acl-0eb7d493b74359f6c	DNS hostnames	Disabled

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Subnets | VPC Management Con ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#subnets:sort=AvailabilityZone

New VPC Experience Tell us what you think

VPC Dashboard New

Filter by VPC:

vpc-0eb7d493b74359f6c
lwpc
Owner: 410914255776

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways New

Egress Only Internet

Create subnet Actions

Filter by tags and attributes or search by keyword

You do not have any Subnets in this region

Click the Create Subnet button to create your first Subnet

Create subnet

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Subnets | VPC Management Con ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#subnets:sort=AvailabilityZone

New VPC Experience Tell us what you think

VPC Dashboard New

Filter by VPC:

vpc-0eb7d493b74359f6c
lwpc
Owner: 410914255776

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways New

Egress Only Internet Gateways New

DHCP Options Sets New

Create subnet Actions

Filter by tags and attributes or search by keyword

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Click the Create Subnet button to create your first Subnet

Create subnet

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← → ↻ 🔒 ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateSubnet:

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aws Services Resource Groups

Create subnet

Specify your subnet's IP address block in CIDR format; for example, 10.0.0.0/24. IPv4 block sizes must be between a /16 netmask and /28 netmask, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

Name tag	lwssubnet1
----------	------------

VPC*	vpc-0eb7d493b74359f6c
------	-----------------------

Availability Zone	No preference
-------------------	---------------

VPC CIDRs	CIDR	Status	Status Reason
	192.168.0.0/16	associated	

IPv4 CIDR block*	10.168.0.0/24
------------------	---------------

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Name tag	lwssubnet1
----------	------------

VPC*	vpc-0eb7d493b74359f6c
------	-----------------------

Availability Zone	ap-south-1a
-------------------	-------------

VPC CIDRs	CIDR	Status	Status Reason
	192.168.0.0/16	associated	

IPv4 CIDR block*	10.168.0.0/24
------------------	---------------

⚠️ CIDR Address is not within CIDR Address from VPC

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← → ↻ 🔒 ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateSubnet:

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aws Services Resource Groups

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Specify your subnet's IP address block in CIDR format. For example, a VPC with a /16 CIDR block must be between 10.0.0.0 and 10.255.255.255, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

VPC CIDRs	CIDR	Status	Status Reason
	192.168.0.0/16	associated	

IPv4 CIDR block* 192.168.0.0/24

* Required

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VPC CIDRs	CIDR	Status	Status Reason
	192.168.0.0/16	associated	

IPv4 CIDR block* 192.168.0.0/24

* Required

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New VPC Experience Tell us what you think

VPC Dashboard New

Filter by VPC:

Owner: 410914255776

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways New

Express Only Internet

Create subnet Actions

Filter by tags and attributes or search by keyword

Name	Subnet ID	State	VPC	IPv4 CIDR	Available
lbsubnet1	subnet-0322531e815c48ca8	available	vpc-0eb7d493b74359f6c lwvpc	192.168.0.0/24	251

Subnet ID: subnet-0322531e815c48ca8 State: available

VPC: vpc-0eb7d493b74359f6c | lwvpc IPv4 CIDR: 192.168.0.0/24

Available IPv4 Addresses: 251 IPv6 CIDR: -

Availability Zone: ap-south-1a (aps1-az1) Route Table: rtb-0001bb967ddbb6646

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VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways New

Express Only Internet

Create subnet Actions

Filter by tags and attributes or search by keyword

Name	Subnet ID	State	VPC	IPv4 CIDR	Available
lbsubnet1	subnet-0322531e815c48ca8	available	vpc-0eb7d493b74359f6c lwvpc	192.168.0.0/24	251

Subnet ID: subnet-0322531e815c48ca8 State: available

VPC: vpc-0eb7d493b74359f6c | lwvpc IPv4 CIDR: 192.168.0.0/24

Available IPv4 Addresses: 251 IPv6 CIDR: -

Availability Zone: ap-south-1a (aps1-az1) Route Table: rtb-

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pod get the ip from the dhcp server

Pod launches inside the subnet

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← → ↻ 🔒 ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateSubnet:

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Specify your subnet's IP address block in CIDR format. For example, available IPv4 CIDR block sizes must be between the VPC's smallest and largest CIDR blocks, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

VPC CIDRs	CIDR	Status	Status Reason
	192.168.0.0/16	associated	

IPv4 CIDR block* 192.168.0.0/24

⚠ CIDR Address overlaps with existing Subnet CIDR: 192.168.0.0/24

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← → ↻ 🔒 ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateSubnet:

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Specify your subnet's IP address block in CIDR format. For example, available IPv4 CIDR block sizes must be between the VPC's smallest and largest CIDR blocks, and can be the same size as your VPC. An IPv6 CIDR block must be a /64 CIDR block.

VPC CIDRs	CIDR	Status	Status Reason
	192.168.0.0/16	associated	

IPv4 CIDR block* 192.168.1.0/24

* Required

Cancel Create

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Screenshots of the AWS VPC Management Console showing the Subnets page.

The Subnets page displays a table of existing subnets:

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IP Addresses
Iwsubent1	subnet-0322531e815c48ca8	available	vpc-0eb7d493b74359f6c ap-south-1	192.168.0.0/24	251
Iwsubent2-1b	subnet-00ff026d46700abf8	available	vpc-0eb7d493b74359f6c ap-south-1	192.168.1.0/24	251

Screenshot of the AWS EC2 Launch Instance Wizard - Step 3: Configure Instance Details.

The wizard is on Step 3: Configure Instance Details. The configuration settings are as follows:

- Purchasing option: Request Spot instances (unchecked)
- Network: vpc-0eb7d493b74359f6c | lwvpc
- Subnet: subnet-00ff026d46700abf8 | Iwsubent2-1b | ap-south-1
- Auto-assign Public IP: Use subnet setting (Disable)
- Placement group: Add instance to placement group (unchecked)
- Capacity Reservation: Open

Buttons at the bottom: Cancel, Previous, Review and Launch, Next: Add Storage.

The screenshot shows the AWS EC2 Instances page. On the left sidebar, under the 'Instances' section, 'Instances' is selected. In the main content area, a table lists one instance:

	Name	App	Env	Instance ID	Instance Type	Availability zone	Elastic IPs
Finding	Opt-in to AWS Compute Optimizer for recommendations.			i-00ff6e0bc2b85d005	t2.micro	ap-south-1b	Private DNS: ip-192-168-1-204.ap-south-1.compute.internal Private IPs: 192.168.1.204 Secondary private IPs: vnr-

The screenshot shows the AWS EC2 Instance details page for the instance with ID i-00ff6e0bc2b85d005. The 'Description' tab is selected. The 'Public DNS (IPv4)' field is highlighted in blue.

Description	Value
Instance ID	i-00ff6e0bc2b85d005
Instance state	running
Instance type	t2.micro
Finding	Opt-in to AWS Compute Optimizer for recommendations.
Public DNS (IPv4)	-
IPv4 Public IP	-
IPv6 IPs	-
Elastic IPs	-

**we can add a public facing router so that private ip turns into public and hence
isp will allow us to ping
We will apply the concept of d-Nating**

Instances | EC2 Management Con X multi hybrid cloud - Google Drive X 9th July, 2020: - Google Docs X Billing Management Console X +

← → ↻ 🔒 ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:search=i-0f1a10df185791770:sort=desc:tag:Name

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New EC2 Experience Tell us what you think X

EC2 Dashboard New

Events New

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

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Launch Instance Connect Actions

search : i-0f1a10df185791770 Add filter

NAME Name App Env Instance ID Instance Type Av-

i-0f1a10df185791770 t2.micro ap-

Instance ID i-0f1a10df185791770 Public DNS (IPv4) -

Instance state pending IPv4 Public IP 3.7.254.175

Instance type t2.micro IPv6 IPs -

Finding Opt-in to AWS Elastic IPs

Compute Optimizer for recommendations.

Learn more

Private DNS ip-192-168-1-51.ap- Availability zone ap-south-1

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Launch instance wizard | EC2 Ma X multi hybrid cloud - Google Drive X 9th July, 2020: - Google Docs X Billing Management Console X +

← → ↻ 🔒 ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

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aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances 1 Launch into Auto Scaling Group

Purchasing option Request Spot instances

Network vpc-0eb7d493b74359f6c | lwpvc Create new VPC

Subnet subnet-00ff026d46700abf8 | lws subnet 2-1b | ap-south Create new subnet
249 IP Addresses available

Auto-assign Public IP Enable

Use subnet setting (Disable)

Enable (highlighted)

Disable

Previous Review and Launch Next: Add Storage

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internet gateway

Internet gateways (1/1)

Name	Internet gateway ID	State
-	igw-1efd5376	Attached

Select an internet gateway above

```
C:\Users\user\Desktop\cloud>ping 3.7.254.175
```

Pinging 3.7.254.175 with 32 bytes of data:

Request timed out.

Request timed out.

Ping statistics for 3.7.254.175:

Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),

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Services ▾ Resource Groups ▾

New VPC Experience
Tell us what you think

VPC Dashboard New

Filter by VPC:
vpc-0eb7d493b74359f6c

vpc-0eb7d493b74359f6c
lwvpc
Owner: 410914255776

VIRTUAL PRIVATE CLOUD

- Your VPCs
- Subnets
- Route Tables
- Internet Gateways**

Internet gateways Info Actions ▾ Create internet gateway

Filter internet gateways

VPC ID: vpc-0eb7d493b74359f6c X Clear filters

Name	Internet gateway ID	State
No matching resource found		

Select an internet gateway above

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Create internet gateway | VPC M ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#CreateInternetGateway:

Services ▾ Resource Groups ▾

Creates an Internet gateway with a key of 'Name' and a value that you specify.

lw_internet_gateway

Tags - optional
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
Name	lw_internet_gateway

Add new tag You can add 49 more tags.

Cancel Create internet gateway

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by default we can create 5 vpc

Screenshots of the AWS VPC Management Console showing the Subnets page and the Modify auto-assign IP settings dialog.

Subnets Page:

- The left sidebar shows "Your VPCs" and "Subnets".
- The main table lists two subnets:
 - lbsubnet1- (available, IPv4 CIDR: 192.168.0.0/24, 251)
 - lbsubnet2- (available, IPv4 CIDR: 192.168.1.0/24, 251)
- A context menu is open over lbsubnet1-, with "Modify auto-assign IP settings" highlighted.

Modify auto-assign IP settings Dialog:

- Subnet ID: subnet-0076cf865dc3411ab
- Auto-assign IPv4: Enable auto-assign public IPv4 address
- * Required
- Buttons: Cancel, Save

Screenshots of the AWS VPC Management Console showing the Subnets page and the Modify auto-assign IP settings dialog.

Subnets Page:

- The left sidebar shows "Your VPCs" and "Subnets".
- The main table lists two subnets:
 - lbsubnet1- (available, IPv4 CIDR: 192.168.0.0/24, 251)
 - lbsubnet2- (available, IPv4 CIDR: 192.168.1.0/24, 251)

Modify auto-assign IP settings Dialog:

- Subnet ID: subnet-0076cf865dc3411ab
- Auto-assign IPv4: Enable auto-assign public IPv4 address
- * Required
- Buttons: Cancel, Save

[Launch instance wizard | EC2 Management Console](#) [multi hybrid cloud - Google Drive](#) [9th July, 2020 - Google Docs](#) [Coronavirus Outbreak in India -](#)

← → ↻ 🔒 ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#LaunchInstanceWizard:

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aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 Launch into Auto Scaling Group

Purchasing option: Request Spot instances

Network: vpc-08d9f9911d4462925 | lwpvc Create new VPC

Subnet: subnet-0076cf865dc3411ab | lws subnet 1-1a | ap-sout Create new subnet
251 IP Addresses available

Auto-assign Public IP: Use subnet setting (Enable)

Use subnet setting (Enable) (selected)
Enable
Disable

Previous Review and Launch Next: Add Storage

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[Instances | EC2 Management Console](#) [multi hybrid cloud - Google Drive](#) [9th July, 2020 - Google Docs](#) [Coronavirus Outbreak in India -](#)

← → ↻ 🔒 ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:search=i-0af342adf7ea1b012:sort=desc:tag:Name

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New EC2 Experience Tell us what you think

EC2 Dashboard

Events New

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Launch Instance Connect Actions

search: i-0af342adf7ea1b012 Add filter

NAME	Name	App	Env	Instance ID	Instance Type	Ava
	firstos			i-0af342adf7ea1b012	t2.micro	ap-s

Instance: i-0af342adf7ea1b012 (firstos) Public IP: 13.126.103.28

Description Status Checks Monitoring Tags

Instance ID	i-0af342adf7ea1b012	Public DNS (IPv4)	-
Instance state	running	IPv4 Public IP	13.126.103.28
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS	Elastic IPs	-

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The screenshot shows the AWS EC2 Management Console. On the left, the navigation pane is open with the 'Instances' section selected. The main area displays a table of instance details. One instance, named 'firstos', is listed with the following information:

	Name	App	Env	Instance ID	Instance Type	Availability zone
	firstos			i-0af342adf7ea1b012	t2.micro	ap-south-1

Below the table, specific details for the instance are shown:

Instance ID	i-0af342adf7ea1b012	Public DNS (IPv4)	-
Instance state	running	IPv4 Public IP	13.126.103.28
Instance type	t2.micro	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Elastic IPs	-
Private DNS	ip-192-168-0-176.ap-	Availability zone	ap-south-1

This screenshot is identical to the one above, but it highlights the private network information for the instance 'firstos'.

Private DNS	ip-192-168-0-176.ap-south-1.compute.internal	Availability zone	ap-south-1
Private IPs	192.168.0.176	Security groups	launch-wizard-1, view inbound rules, view outbound rules
Secondary private IPs		Scheduled events	No scheduled events
VPC ID	vpc-	AMI ID	amzn-ami-hvm-

```
C:\Users\user\Desktop\cloud>ping 13.126.103.28
```

Pinging 13.126.103.28 with 32 bytes of data:
Request timed out.

Ping statistics for 13.126.103.28:

er

```
C:\Users\user\Desktop\cloud>ssh -i mykey1111.pem -l ec2-user 13.126.103.28
```

The screenshot shows the AWS Route Tables > Create route table interface. A modal window is open for creating a new route table. The 'Name tag' field contains 'lwroutable'. The 'VPC*' dropdown is set to 'vpc-08d9f9911d4462925'. The 'Create' button is visible at the bottom right of the modal.

The screenshot shows the AWS Route Tables list page. The 'Create route table' button is visible at the top left. The table lists two route tables:

Name	Route Table ID	Explicit subnet association	Edge associations	Main
rtb-0024e1a2d8b772f7c	rtb-0024e1a2d8b772f7c	-	-	Yes
lwroutable	rtb-04dd075330d0d27cd	-	-	No

The 'lwroutable' route table is selected. Below the table, the 'Routes' tab is active, showing the route table configuration. The status bar at the bottom indicates the session is active at 13.126.103.28.

Internet gateways | VPC Mane... | multi hybrid cloud - Google D... | 9th July, 2020 - Google Docs | Edit routes | VPC Management | Untitled document - Google D... | +

← → C ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#EditRoutes:routeTableId=rtb-04dd075330d0d27cd

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Route Tables > Edit routes

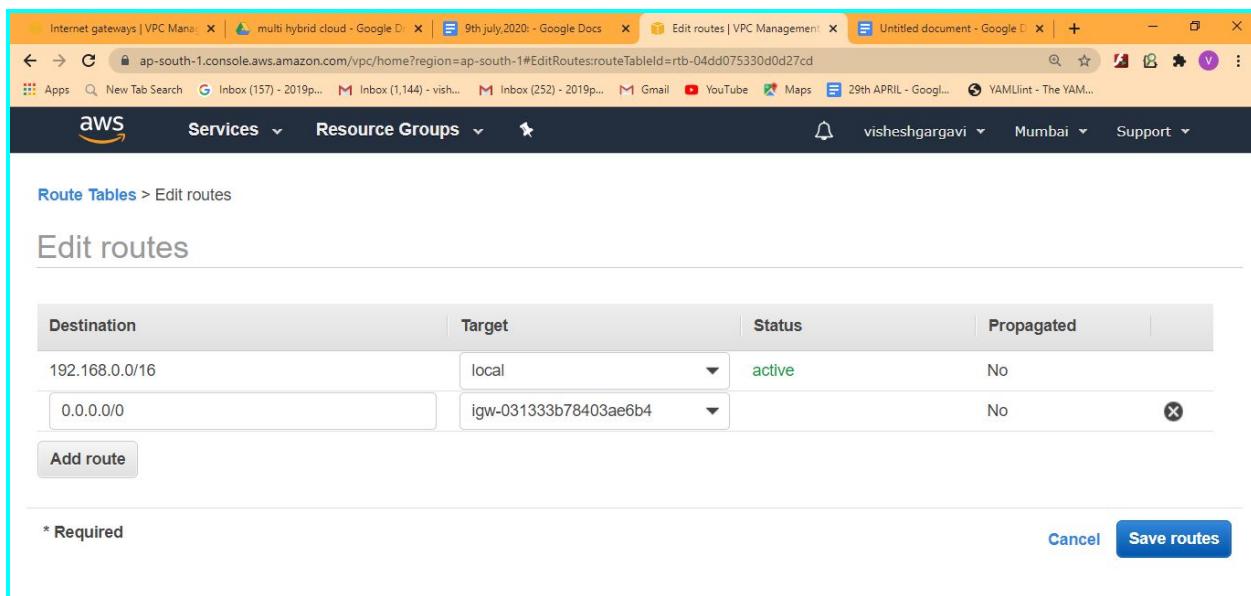
Edit routes

Destination	Target	Status	Propagated
192.168.0.0/16	local	active	No
0.0.0.0/0	igw-031333b78403ae6b4		No

Add route

* Required

Cancel Save routes



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← → C ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#igws:

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New VPC Experience Tell us what you think

VPC Dashboard [New](#)

Filter by VPC:

VIRTUAL PRIVATE CLOUD

- Your VPCs
- Subnets
- Route Tables
- Internet Gateways [New](#)**
- Egress Only Internet Gateways [New](#)

Internet Gateways (1/2) [Info](#)

Actions [Create internet gateway](#)

Name	Internet gateway ID	State
lw_internet_gateway	igw-031333b78403ae6b4	Detached
-	igw-1efd5376	Attached

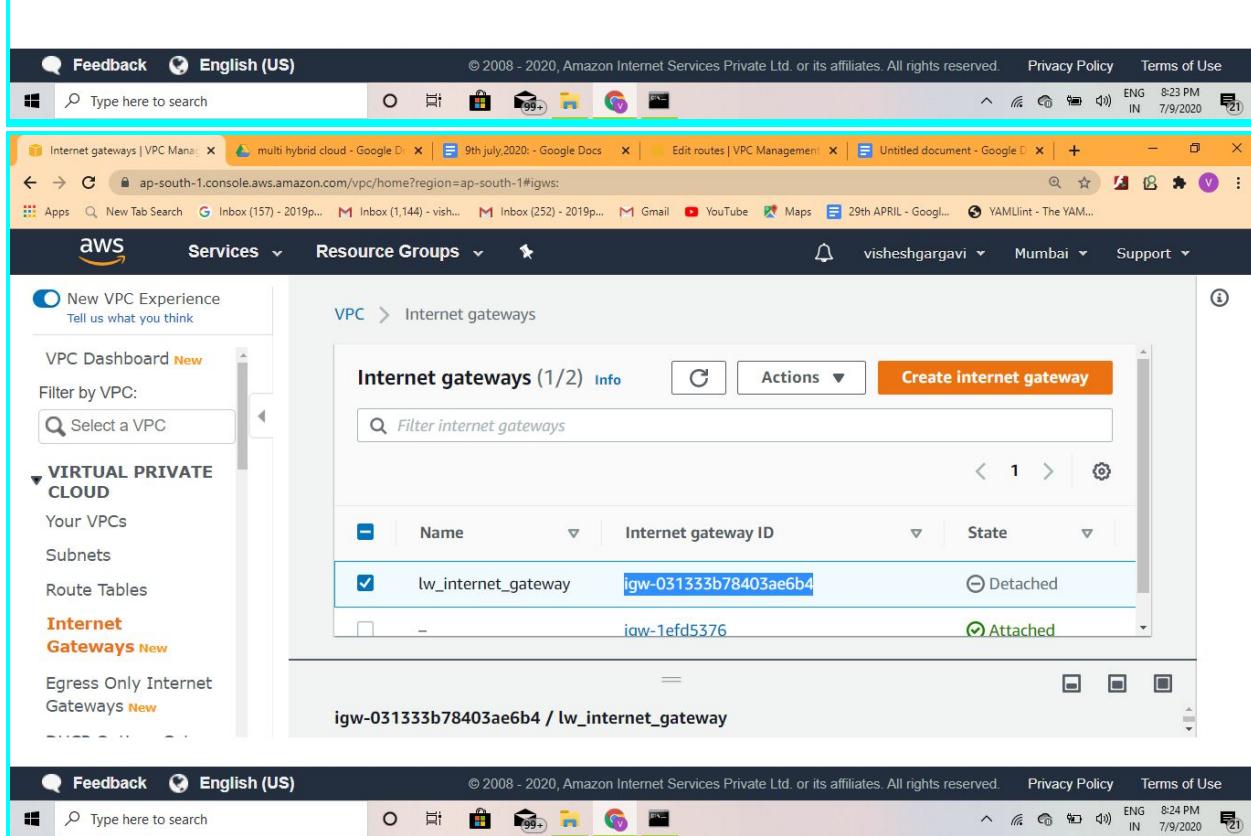
igw-031333b78403ae6b4 / lw_internet_gateway

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Type here to search

ENG IN 8:23 PM 7/9/2020



The screenshot shows the AWS VPC Internet Gateways page. In the top navigation bar, there are several tabs: "Attach internet gateway | VPC", "multi hybrid cloud - Google Docs", "9th july,2020: - Google Docs", "Edit routes | VPC Management", "Untitled document - Google Docs", and "YAMLInt - The YAM...". Below the tabs, the AWS logo and "Services" dropdown are visible. The main content area shows the "Internet gateways (1/1)" section. A search bar at the top of this section contains the text "VPC ID: vpc-08d9f9911d4462925". The table below lists one internet gateway:

VPC ID	Name tag	Owner
vpc-15f8e57d		410914255776
vpc-08d9f9911d4462925	lwvpc	410914255776

Below the table is a search input field with the placeholder "Search for VPCs" and a clear button. A link "▶ AWS Command Line Interface command" is also present. At the bottom right of the table area are "Cancel" and "Attach internet gateway" buttons.

At the bottom of the page, the footer includes links for "Feedback", "English (US)", "Privacy Policy", and "Terms of Use". It also shows system status icons like battery level and signal strength, and the date/time "7/9/2020 8:25 PM".

wewe menedd

We need to attach it to the vpc

The screenshot shows the AWS VPC Management Console. On the left sidebar, under the 'Virtual Private Cloud' section, 'Internet Gateways' is selected. In the main content area, the 'Internet gateways (1/1)' page is displayed. A table lists one internet gateway:

Name	Internet gateway ID	Status
lw_internet_gateway	igw-019abee643c0eb8ea	Attached

An orange 'Actions' button is visible above the table, with a dropdown menu open showing options: 'View details', 'Attach to VPC', 'Detach from VPC', 'Manage tags', and 'Delete internet gateway'. The 'Attach to VPC' option is highlighted.

The screenshot shows the AWS VPC Management Console. On the left sidebar, under the 'Virtual Private Cloud' section, 'Route Tables' is selected. In the main content area, the 'Route Tables (1 to 2 of 2)' page is displayed. A table lists two route tables:

Name	Route Table ID	Explicit subnet association	Edge associations	Main
rtb-0024e1a2d8b772f7c	rtb-0024e1a2d8b772f7c	-	-	Yes
lwrountable	rtb-04dd075330d0d27cd	-	-	No

An orange 'Actions' button is visible above the table, with a dropdown menu open showing options: 'Create route table' and 'Edit subnet associations'. The 'Edit subnet associations' option is highlighted.

Internet gateways | VPC Mane... | multi hybrid cloud - Google D... | 9th july,2020: - Google Docs | Edit subnet associations | VPC | Untitled document - Google D... | +

← → C ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#EditRouteTableSubnetAssociations:routeTableId=rtb-04dd075330d0d27cd

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Route Tables > Edit subnet associations

Edit subnet associations

Route table rtb-04dd075330d0d27cd (lwroutetable)

Associated subnets **subnet-0076cf865dc3411ab**

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Rout
subnet-0076cf865dc3411ab lws subnet1-1b	192.168.0.0/24	-	Main
subnet-078f82b8fbe8083f1 lws subnet2-1b	192.168.1.0/24	-	Main

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Type here to search ENG 8:27 PM IN 7/9/2020

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Rout
subnet-0076cf865dc3411ab lws subnet1-1b	192.168.0.0/24	-	Main
subnet-078f82b8fbe8083f1 lws subnet2-1b	192.168.1.0/24	-	Main

DMZ(de-militarized zone)

Screenshot of the AWS VPC Management Console showing the Route Tables page for a specific VPC.

VPC Dashboard: Filtered by VPC ID: `vpc-08d9f...`. Details: `vpc-08d9f9911d4462925`, `lwpvc`, Owner: `410914255776`.

Route Tables: A single route table named `lwroutetable` is listed. It has an explicit subnet association for the subnet `subnet-0076cf865dc3411ab` with the IPv4 CIDR `192.168.0.0/24`.

Note: The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Subnet ID	IPv4 CIDR	IPv6 CIDR
<code>subnet-0076cf865dc3411ab</code>	<code>192.168.0.0/24</code>	-

Screenshot of the AWS VPC Management Console showing the Route Tables page for a specific VPC.

VPC Dashboard: Filtered by VPC ID: `vpc-08d9f...`. Details: `vpc-08d9f9911d4462925`, `lwpvc`, Owner: `410914255776`.

Route Tables: A single route table named `lwroutetable` is listed. It has an explicit subnet association for the subnet `subnet-0076cf865dc3411ab` with the IPv4 CIDR `192.168.0.0/16`.

View: All routes

Destination	Target	Status
<code>192.168.0.0/16</code>	<code>local</code>	<code>active</code>
<code>0.0.0.0/0</code>	<code>igw-019abee643c0eb8ea</code>	<code>active</code>

```
C:\Users\user\Desktop\cloud>ssh -i mykey1111.pem -l ec2-user 13.126.103.28
```

The authenticity of host '13.126.103.28 (13.126.103.28)' can't be established.

ECDSA key fingerprint is

SHA256:fUHjbRw1uHsJqBAJMSsZs/hgYWzBdSGPS8/h9kk15ag.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '13.126.103.28' (ECDSA) to the list of known hosts.

```
_)  
_| ( / Amazon Linux AMI  
__|_\_|_
```

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

[ec2-user@ip-192-168-0-176 ~]\$ sudo su

[root@ip-192-168-0-176 ec2-user]# 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=111 time=1.18 ms

64 bytes from 8.8.8.8: icmp_seq=2 ttl=111 time=1.23 ms

64 bytes from 8.8.8.8: icmp_seq=3 ttl=111 time=1.22 ms

^C

--- 8.8.8.8 ping statistics ---

3 packets transmitted, 3 received, 0% packet loss, time 2002ms

rtt min/avg/max/mdev = 1.184/1.214/1.238/0.022 ms

Screenshot of the AWS VPC Management Console showing the Actions menu for a VPC named 'lwvpc'. The Actions menu includes options like Delete VPC, Edit CIDRs, Create Default VPC, Create flow log, Edit DHCP options set, Edit DNS resolution, and Edit DNS hostnames. The main table shows two subnets: one with IPv4 CIDR 192.168.0.0/16 and another with 172.31.0.0/16.

	State	IPv4 CIDR	IPv6 CIDR	DHCP opt
62925	available	192.168.0.0/16	-	dopt-5775
	available	172.31.0.0/16	-	dopt-5775

Screenshot of the AWS VPC Management Console showing the 'Edit DNS hostnames' configuration page for VPC ID 'vpc-08d9f9911d4462925'. The 'DNS hostnames' checkbox is checked and labeled 'enable'. The 'Save' button is visible at the bottom right.

VPC ID: vpc-08d9f9911d4462925

DNS hostnames enable

* Required

Cancel Save

Screenshot of the AWS EC2 Management Console showing the Instances page. A search bar at the top contains the query "Filter by tags and attributes or search by keyword". Below it is a table with columns: NAME, App, Env, Instance ID, Instance Type, and Av. One row is highlighted, showing an instance named "firstos" with Instance ID i-0af342adf7ea1b012, running on t2.micro. The Public DNS (IPv4) is ec2-13-126-103-28.ap-south-1.compute.amazonaws.com.

NAME	App	Env	Instance ID	Instance Type	Av
			i-0ff6e0bc2b85d005	t2.micro	ap-
			i-0f1a10df185791770	t2.micro	ap-
firstos			i-0af342adf7ea1b012	t2.micro	ap-

Screenshot of the AWS VPC Management Console showing the Delete VPC dialog box. The question "Are you sure that you want to delete this VPC (vpc-08d9f9911d4462925 lwwpc)? is displayed. Below it, a list of associated objects to be deleted includes Subnets, Security Groups, Network ACLs, Internet Gateways, Egress Only Internet Gateways, Route Tables, Network Interfaces, Peering Connections, and Endpoints. At the bottom right are "Cancel" and "Delete VPC" buttons.