

AWS TASK – 3

Create VPC and Providing Private connection

Create VPC [Info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances. Mouse over a resource to highlight the related resources.

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 auto-generation [Info](#)
Enter a value for the Name tag. This value will be used to auto-generate Name tags for all resources in the VPC.

☒ Auto-generate
dineshvpn

IPv4 CIDR block [Info](#)
Determine the starting IP and the size of your VPC using CIDR notation.

10.0.0.0/16 65,536 IPs
CIDR block size must be between /16 and /28.

Preview

VPC [Show details](#)
Your AWS virtual network

dineshvpn

Subnets (2)
Subnets within this VPC

ap-south-1a

- dineshvpn-subnet-public1-ap-south-1
- dineshvpn-subnet-private1-ap-south-1

VPC endpoints [Info](#)
Endpoints can help reduce NAT gateway charges and improve security by accessing S3 directly from the VPC. By default, full access policy is used. You can customize this policy at any time.

☐ None ☒ S3 Gateway

DNS options [Info](#)

- ☒ Enable DNS hostnames
- ☒ Enable DNS resolution

Additional tags
Add tags to the VPC and all resources within the VPC. Do not set the Name tag here. Set the Name tag under Name tag auto-generation above or directly in the visualizer.

[Add new tag](#)
You can add 49 more tags.

[Cancel](#) [Preview code](#) [Create VPC](#)

Browser window showing the AWS Management Console VPC console page. The URL is `ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#CreateVpcWizard`. The page displays a success message for creating VPC resources.

Success

Details

- ✓ Create VPC: `vpc-08f99c3617995c23b`
- ✓ Enable DNS hostnames
- ✓ Enable DNS resolution
- ✓ Verifying VPC creation: `vpc-08f99c3617995c23b`
- ✓ Create S3 endpoint: `vpce-0ba0fdb01b7799f4`
- ✓ Create subnet: `subnet-0f5d813e6233b4a36`
- ✓ Create subnet: `subnet-0592e67ca103973cf`
- ✓ Create internet gateway: `igw-0599b6c0e7af5a737`
- ✓ Attach internet gateway to the VPC
- ✓ Create route table: `rtb-0286d01fb2ab93944`
- ✓ Create route
- ✓ Associate route table
- ✓ Create route table: `rtb-088f10459016d38cc`
- ✓ Associate route table
- ✓ Verifying route table creation
- ✓ Associate S3 endpoint with private subnet route tables: `vpce-0ba0fdb01b7799f4`

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Browser window showing the AWS Management Console VPC console page. The URL is `ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#VpcDetails:VpcId=vpc-08f99c3617995c23b`. The page displays the details for the VPC `vpc-08f99c3617995c23b`.

VPC dashboard

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
- NAT gateways
- Peering connections

vpc-08f99c3617995c23b / dineshvpc-vpc

Details

VPC ID <code>vpc-08f99c3617995c23b</code>	State Available	Block Public Access Off	DNS hostnames Enabled
DNS resolution Enabled	Tenancy default	DHCP option set <code>dopt-0f7de3cf1223aa861</code>	Main route table <code>rtb-0a8851ac6c5e302c9</code>
Main network ACL <code>acl-005acb132b4a0bfbf</code>	Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -
IPv6 CIDR (Network border group) -	Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID <code>869935093274</code>

Resource map | CIDRs | Flow logs | Tags | Integrations

Resource map

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Creating EC2 instance with the created VPC

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

EC2 > Instances > Launch an instance

Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Proceed without a key pair (Not recommended) Default value [Create new key pair](#)

Network settings [Info](#)

VPC - required [Info](#)

vpc-08f99c3617995c23b (dinesh-vpc) 10.0.0.0/16 [Create new VPC](#)

Subnet [Info](#)

subnet-0f5d813e6233b4a36 dinesh-vpc-subnet-public1-ap-south-1a [Create new subnet](#)

VPC: vpc-08f99c3617995c23b Owner: 869935093274
Availability Zone: ap-south-1a Zone type: Availability Zone
IP addresses available: 4091 CIDR: 10.0.0.0/20

Summary

Number of instances [Info](#)

1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-00bb6a80f01f03502

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)

[Cancel](#) [Launch instance](#) [Preview code](#)

Auto-assign public IP [Info](#)

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

EC2 > Instances > Launch an instance

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

dinesh [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

[Recents](#) [Quick Start](#)

Summary

Number of instances [Info](#)

1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-00bb6a80f01f03502

Virtual server type (instance type)
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Firewall (security group)
New security group

Storage (volumes)

[Cancel](#) [Launch instance](#) [Preview code](#)

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Type here to search

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

aws Search [Alt+S] Asia Pacific (Mumbai) Dinesh

EC2 > Instances > Launch an instance

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0) Remove

Type ssh Protocol TCP Port range 22

Source type Anywhere Source 0.0.0.0/0 Description - optional e.g. SSH for admin desktop

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule

► Advanced network configuration

▼ Summary

Number of instances 1

Software Image (AMI) Canonical, Ubuntu, 24.04, amd6...read more ami-00bb6a80f01f03502

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes)

Cancel Launch instance Preview code

▼ Configure storage Info Advanced

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Type here to search

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

aws Search [Alt+S] Asia Pacific (Mumbai) Dinesh

Dashboard < EC2 Global View Events

▼ Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations

▼ Images AMIs AMI Catalog

▼ Elastic Block Store

Instances (1) Info Last updated less than a minute ago Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive) All states < 1 >

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	dinesh	i-031332ab228ef1abc	Running	t2.micro	Initializing	View alarms +

Select an instance

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-031332ab228ef1abc

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Dinesh

EC2 > Instances > i-031332ab228ef1abc

Updated less than a minute ago

Dashboard

EC2 Global View

Events

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Instance ID

i-031332ab228ef1abc

IPV6 address

-

Hostname type

IP name: ip-10-0-6-180.ap-south-1.compute.internal

Answer private resource DNS name

-

Auto-assigned IP address

-

IAM Role

-

IMDSv2

Public IPv4 address

-

Instance state

Running

Private IP DNS name (IPv4 only)

ip-10-0-6-180.ap-south-1.compute.intern
al

Instance type

t2.micro

VPC ID

vpc-08f99c3617995c23b (dineshvp-
vpc)

Subnet ID

subnet-0f5d813e6233b4a36 (dineshvp-
subnet-public1-ap-south-1a)

Instance ARN

Private IPv4 addresses

10.0.6.180

Public IPv4 DNS

-

Elastic IP addresses

-

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for reco
mmendations.
| Learn more

Auto Scaling Group name

-

Managed

CloudShell

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