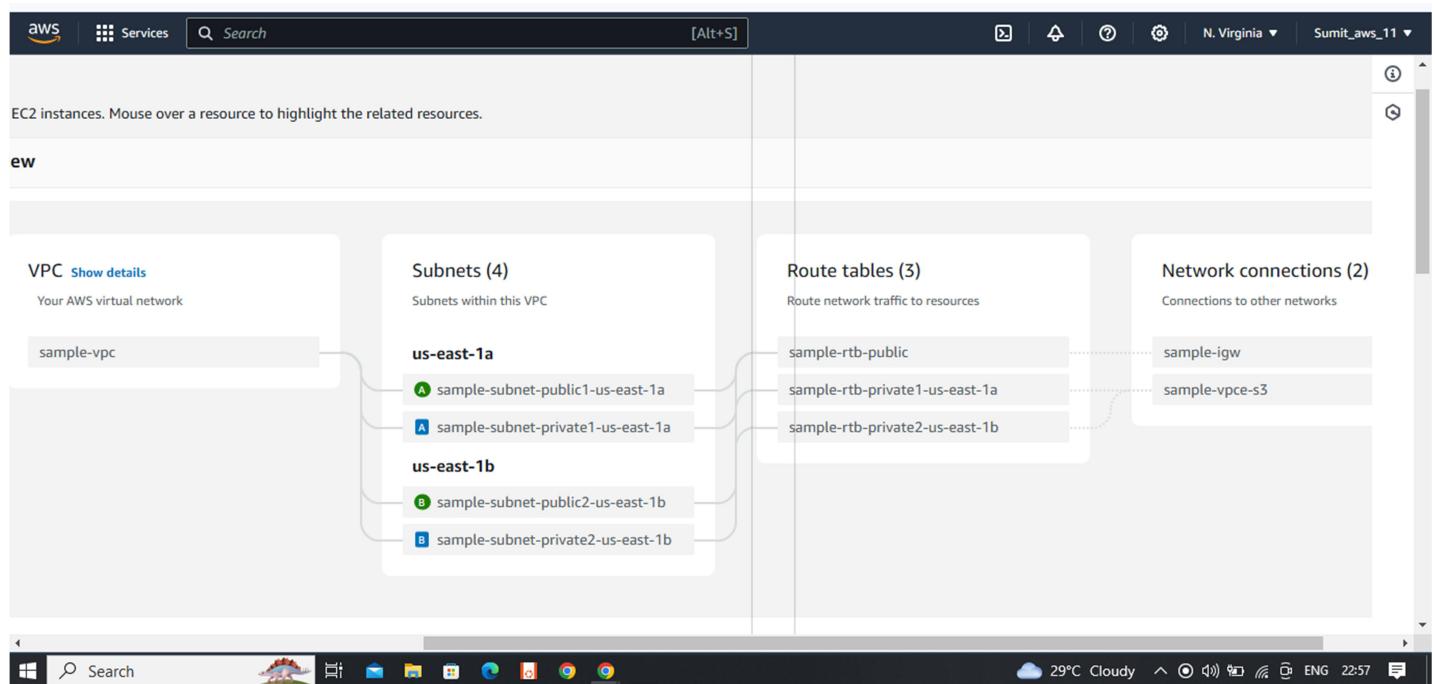


[Guvi Task]

Day 4 - AWS--VPC and Dynamo DB

TASK: set up a VPC with an Internet gateway, create a public subnet, a private subnet make a route table connecting the Internet gateway and the subnets, and launch a Linux EC2 instance by using the above vpc and public subnet .

The screenshot shows the 'Create VPC' wizard in the AWS Management Console. On the left, under 'VPC settings', the 'VPC and more' option is selected. A 'Name tag auto-generation' section is shown with 'Auto-generate' checked and 'sample' entered. Under 'IPv4 CIDR block', '10.0.0.16' is specified with '65,536 IPs'. On the right, the 'Preview' section shows a 'VPC' named 'sample-vpc' and four subnets: 'sample-subnet-public1-us-east-1a', 'sample-subnet-private1-us-east-1a', 'sample-subnet-public2-us-east-1b', and 'sample-subnet-private2-us-east-1b', grouped under 'us-east-1a' and 'us-east-1b' respectively.



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Customize subnets CIDR blocks

NAT gateways (\$) Info
Choose the number of Availability Zones (AZs) in which to create NAT gateways.
Note that there is a charge for each NAT gateway.

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.

DNS options Info
 Enable DNS hostnames
 Enable DNS resolution

Additional tags

Cancel

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Success

Details

- ✓ Create VPC: vpc-0edc11ff6c8b2223e []
- ✓ Enable DNS hostnames
- ✓ Enable DNS resolution
- ✓ Verifying VPC creation: vpc-0edc11ff6c8b2223e []
- ✓ Create subnet: subnet-0bbf039d5fb162de []
- ✓ Create subnet: subnet-01c41fd85e3561133 []
- ✓ Create subnet: subnet-0ce1be49b5a38aa47 []
- ✓ Create subnet: subnet-035e8293ad8bb71b4 []
- ✓ Create internet gateway: igw-0eeb6ca05d16364ca []
- ✓ Attach internet gateway to the VPC
- ✓ Create route table: rtb-0a2f1b872d7a91e53 []
- ✓ Create route
- ✓ Associate route table
- ✓ Associate route table
- ✓ Allocate elastic IP: eipalloc-05e144dc171f14f3d []
- ✓ Create NAT gateway: nat-04a0ae5843540bc7f []
- ✓ Wait for NAT Gateways to activate
- ✓ Create route table: rtb-0551227f2a8ca4d85 []
- ✓ Create route
- ✓ Associate route table
- ✓ Create route table: rtb-0c4dc958ae7b39780 []

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VPC dashboard

EC2 Global View Filter by 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

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Internet gateways (2) Info

Name	Internet gateway ID	State	VPC ID
-	igw-022b0533aa511c7c6	Attached	vpc-04a569f889b1df7a5
sample-igw	igw-0eeb6ca05d16364ca	Attached	vpc-0edc11ff6c8b2223e sample-vpc

Select an internet gateway above

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VPC dashboard

EC2 Global View Filter by VPC

Virtual private cloud

Your VPCs

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- Endpoints
- Endpoint services
- NAT gateways

VPC > Your VPCs > vpc-0edc11ff6c8b2223e

vpc-0edc11ff6c8b2223e / sample-vpc Actions

Details Info

VPC ID vpc-0edc11ff6c8b2223e	State Available	DNS hostnames Enabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0f8756ee1356e83e3	Main route table rtb-09e1ffd4231f90e8	Main network ACL acl-0bbfd4734bdb01582
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 730335346690	

Resource map CIDs Flow logs Tags Integrations

Resource map Info

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

Route table settings

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

VPC
The VPC to use for this route table.

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
<input type="text" value="Name"/>	<input type="text" value="my-route-table"/>

Add new tag

You can add 49 more tags.

Create route table

VPC dashboard

Route tables (1/6)

Name	Route table ID	Explicit subnet assoc...	Edge associations	Main
-	rtb-05a5025td52e0b0d5	-	-	Yes
sample-rtb-public	rtb-0a2f1b872d7a91e53	-	-	No
sample-rtb-private2-us-east-1b	rtb-0c4dc958ae7b39780	subnet-035e8293ad8bb7...	-	No
-	rtb-09e1fdf4f4231f90e8	-	-	Yes
sample-rtb-private1-us-east-1a	rtb-0551227f2a8ca4d85	subnet-0ce1be49b5a38a...	-	No
<input checked="" type="checkbox"/> my-route-table	rtb-0240d77f3057b57fc	2 subnets	-	No

rtb-0240d77f3057b57fc / my-route-table

Details

Route table ID rtb-0240d77f3057b57fc	Main <input type="checkbox"/> No	Explicit subnet associations 2 subnets	Edge associations -
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VPC dashboard X

EC2 Global View Filter by 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

Subnets (2/10) Info

Last updated 22 minutes ago Actions ▾ Create subnet

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-015e34868d0117b8f	Available	vpc-04a569f889b1df7a5	172.31.
-	subnet-0d8f7ea0c7d26fd35	Available	vpc-04a569f889b1df7a5	172.31.
sample-subnet-public2-us-east-1b	subnet-01c41fd85e3561133	Available	vpc-0edc11ff6c8b2223e sample-vpc	10.0.16
sample-subnet-public1-us-east-1a	subnet-0bbf039d5fb162de	Available	vpc-0edc11ff6c8b2223e sample-vpc	10.0.0.0
sample-subnet-private1-us-east-1a	subnet-0ce1be49b5a38aa47	Available	vpc-0edc11ff6c8b2223e sample-vpc	10.0.12
sample-subnet-private2-us-east-1b	subnet-035e8293ad8bb71b4	Available	vpc-0edc11ff6c8b2223e sample-vpc	10.0.14

Subnets: subnet-01c41fd85e3561133, subnet-0bbf039d5fb162de

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Network settings Info

VPC - required Info
vpc-0edc11ff6c8b2223e (sample-vpc)
10.0.0.0/16

Subnet Info
subnet-01c41fd85e3561133 sample-subnet-public2-us-east-1b
VPC: vpc-0edc11ff6c8b2223e Owner: 730335346690 Availability Zone: us-east-1b
IP addresses available: 4091 CIDR: 10.0.16.0/20

Create new subnet

Auto-assign public IP Info
Disable

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group Select existing security group

Security group name - required
launch-wizard-11

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/()#,@[]+=;&:;!\$*

Summary

Number of instances Info
1

Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more
ami-04a81a99f5ec58529

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Cancel Launch instance Review commands

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EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store CloudShell Feedback

Instances (1/1) Info C Connect Instance state Actions Launch instances

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

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
vpc-ec2	i-073995e62c5599724	Running	t2.micro	Initializing	View alarms +	us-east-1b

i-073995e62c5599724 (vpc-ec2)

Public IPv4 DNS	Private IP DNS name (IPv4 only) ip-10-0-22-10.ec2.internal	vpc-0edc11ff6c8b2223e (sample-vpc)
Subnet ID	IPV6 addresses	Secondary private IPv4 addresses
subnet-01c41fd85e3561133 (sample-subnet-public2-us-east-1b)	-	-
Availability zone	Carrier IP addresses (ephemeral)	Outpost ID
us-east-1b	-	-

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