

Assignment No 3

Working with VPC

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1.Create a VPC

“my-vpc-demo1” name VPC created.

The screenshot shows the AWS Management Console interface. At the top, a green notification banner states: "You successfully created vpc-011526db2bd24d38a / my-vpc-demo1". The left sidebar contains the navigation menu with "VIRTUAL PRIVATE CLOUD" expanded and "Your VPCs" selected. The main content area displays the details for the VPC "vpc-011526db2bd24d38a / my-vpc-demo1".

Details Info			
VPC ID vpc-011526db2bd24d38a	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP options set dopt-eda2ba97	Main route table rtb-0f3b5e9aac985789	Main network ACL acl-02c65f88bcaddcfba
Default VPC No	IPv4 CIDR 40.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Owner ID			

2.Create an internet gateway and attach to VPC

“my-igw-demo1” created as igw and then attach to “my-vpc-demo1”.

The screenshot shows the AWS Management Console interface. A green notification banner at the top states: "The following internet gateway was created: igw-0e62111a1f4ef040b . You can now attach to a VPC to enable the VPC to communicate with the internet." The left sidebar shows "VIRTUAL PRIVATE CLOUD" expanded and "Internet Gateways" selected. The main content area displays the details for the Internet Gateway "igw-0e62111a1f4ef040b / my-igw-demo1".

Details Info			
Internet gateway ID igw-0e62111a1f4ef040b	State Detached	VPC ID -	Owner 214088215567

Below the details, there is a "Tags" section with a search bar and a "Manage tags" button.

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New VPC Experience Tell us what you think

VPC Dashboard

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables **New**

Internet Gateways

Egress Only Internet Gateways

Carrier Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services **New**

NAT Gateways

Internet gateway igw-0e62111a1f4ef040b successfully attached to vpc-011526db2bd24d38a

VPC > Internet gateways > igw-0e62111a1f4ef040b

igw-0e62111a1f4ef040b / my-igw-demo1 Actions

Details Info

Internet gateway ID igw-0e62111a1f4ef040b	State Attached	VPC ID vpc-011526db2bd24d38a my-vpc-demo1	Owner 214088215567
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Tags

Search tags

Manage tags

Feedback English (US)

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3. Create a route table and route to internet gateway

“my-route-demo1” name route table created and then assign route to “my-igw-demo1” Internet gateway.

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VPC Dashboard

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables **New**

Internet Gateways

Egress Only Internet Gateways

Carrier Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services **New**

NAT Gateways

Route table rtb-08225e4fd028571c6 | my-route-demo1 was created successfully.

VPC > Route tables > rtb-08225e4fd028571c6

rtb-08225e4fd028571c6 / my-route-demo1 Actions

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Details Info

Route table ID rtb-08225e4fd028571c6	Main No	Explicit subnet associations -	Edge associations -
VPC vpc-	Owner ID 214088215567		

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New VPC Experience Tell us what you think

VPC Dashboard Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables New Internet Gateways Egress Only Internet Gateways Carrier Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways

Updated routes for rtb-08225e4fd028571c6 / my-route-demo1 successfully Details

VPC > Route tables > rtb-08225e4fd028571c6

rtb-08225e4fd028571c6 / my-route-demo1 Actions

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Details Info

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-08225e4fd028571c6	No	-	-
VPC	Owner ID		
	214088215567		

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4. Make a custom route table the main route table

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VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables New Internet Gateways Egress Only Internet Gateways Carrier Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways

You successfully set the route table rtb-08225e4fd028571c6 / my-route-demo1 as main.

VPC > Route tables > rtb-08225e4fd028571c6

rtb-08225e4fd028571c6 / my-route-demo1 Actions

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Details Info

Route table ID	Main	Explicit subnet associations	
rtb-08225e4fd028571c6	Yes	-	
VPC	Owner ID		
vpc-	214088215567		

Set main route table Edit subnet associations Edit edge associations Edit route propagation Edit routes Manage tags Delete

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5. Create the subnet

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VPC Dashboard Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables New Internet Gateways Egress Only Internet Gateways Carrier Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways

You have successfully created 1 subnet: subnet-0b25ddf13e7c30922

Subnets (1) Info Actions Create subnet

Filter subnets Subnet ID: subnet-0b25ddf13e7c30922 Clear filters

	Name	Subnet ID	State	VPC	IPv4 CIDR

Select a subnet

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6. Modify auto assign IP settings for the subnet

Modify auto-assign IP settings [Info](#)

Enable the auto-assign IP address setting to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

Settings

Subnet ID
subnet-0b25ddf13e7c30922

Auto-assign IPv4 [Info](#)

☒ Enable auto-assign public IPv4 address

Auto-assign customer-owned IPv4 address [Info](#)

☐ Enable auto-assign customer-owned IPv4 address
Option disabled because no customer owned pools found.

[Cancel](#) [Save](#)

You have successfully modified auto-assign IP settings.

- Public IPv4 address

Subnets (1/1) [Info](#)

[Filter subnets](#)

Subnet ID: subnet-0b25ddf13e7c30922 [Clear filters](#)

<input checked="" type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input checked="" type="checkbox"/>	my-subnet-de...	subnet-0b25ddf13e7c...	Available	vpc-011526db2bd24d...	40.0.0.0/24

subnet-0b25ddf13e7c30922 / my-subnet-demo1

7. launch a EC2

In network we have selected our created VPC, further automatically subnet which is attach to VPC is selected.

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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-011526db2bd24d38a | my-vpc-demo1

Create new VPC

Subnet

subnet-0b25ddf13e7c30922 | my-subnet-demo1 | us

Create new subnet

Auto-assign Public IP

Enable

Placement group

☐ Add instance to placement group

Capacity Reservation

Open

Domain join directory

No directory

Create new directory

IAM role

None

Create new IAM role

Cancel

Previous

Review and Launch

Next: Add Storage

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New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Instances (1/1)

Info

Connect

Instance state

Actions

Launch instances

Filter instances

search: i-001e6dd8878267f6c

Clear filters

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	my-ec2-demo1	i-001e6dd8878267f6c	Running	t2.micro	-	No alarms	us-east-1a

Instance: i-001e6dd8878267f6c (my-ec2-demo1)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary

Info

Instance ID

Public IPv4 address

Private IPv4 addresses

my-new-keypair-....pem

https://console.aws.amazo...

Show all

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Thank You