

Assignment-3

VPC

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The screenshot shows the AWS Management Console interface for the 'us-east-2' region. The main content area is titled 'Your VPCs (2)' and contains a table listing the available VPCs. The table has columns for Name, VPC ID, State, IPv4 CIDR, IPv6 CIDR, and IPv6 pool. Two VPCs are listed: 'mynewvpc123' with VPC ID 'vpc-022a1e2519714269f' and 'vpc-7c365f17' with VPC ID 'vpc-7c365f17'. Both are in an 'Available' state. The left sidebar shows the navigation menu with 'VIRTUAL PRIVATE CLOUD' expanded. The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

| Name | VPC ID | State | IPv4 CIDR | IPv6 CIDR | IPv6 pool |
|-------------|-----------------------|-----------|---------------|-----------|-----------|
| mynewvpc123 | vpc-022a1e2519714269f | Available | 40.0.0.0/16 | - | - |
| - | vpc-7c365f17 | Available | 172.31.0.0/16 | - | - |

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#CreateVpc:

Create VPC

A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

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

mynewvpc2

IPv4 CIDR block

40.0.0.0/16

IPv6 CIDR block

☒ No IPv6 CIDR block

☐ Amazon-provided IPv6 CIDR block

☐ IPv6 CIDR owned by me

Tenancy

Default

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 |
|-----|------------------|
|-----|------------------|

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#VpcDetails:VpcId=vpc-0b5695915e2d7510b

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

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services **New**

NAT Gateways

Peering

Connections **New**

SECURITY

Network ACLs

You successfully created vpc-0b5695915e2d7510b / mynewvpc2

VPC > Your VPCs > vpc-0b5695915e2d7510b

vpc-0b5695915e2d7510b / mynewvpc2

Actions

Details

| | | | |
|--|------------------|-----------------------|-----------------------|
| VPC ID | State | DNS hostnames | DNS resolution |
| vpc-0b5695915e2d7510b | Available | Disabled | Enabled |
| Tenancy | DHCP options set | Main route table | Main network ACL |
| Default | dopt-d9a1e2b2 | rtb-0868ae397257a318b | acl-0827f812b6ed189ba |
| Default VPC | IPv4 CIDR | IPv6 pool | IPv6 CIDR |
| No | 40.0.0.0/16 | - | - |
| Route 53 Resolver DNS Firewall rule groups | Owner ID | | |
| - | 481053421884 | | |

CIDRs Flow logs Tags

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IGW

(18) WhatsApp x YouTube x AWS-Assignment-1 - Google x AWS-Assignment-2 - Google x Create internet gateway | VPC x Untitled document - Google x +

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#CreateInternetGateway:

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VPC > Internet gateways > Create internet gateway

Create internet gateway [Info](#)

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

Internet gateway settings

Name tag
Creates a tag with a key of 'Name' and a value that you specify.

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 | |
|-----------------------------------|--|---------------------------------------|
| <input type="text" value="Name"/> | <input type="text" value="mynewigw2"/> | <input type="button" value="Remove"/> |

You can add 49 more tags.

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#InternetGatewayinternetGatewayId=igw-0397923b44a67fba6

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New VPC Experience Tell us what you think

The following internet gateway was created: igw-0397923b44a67fba6. You can now attach to a VPC to enable the VPC to communicate with the internet. [Attach to a VPC](#)

VPC > Internet gateways > igw-0397923b44a67fba6

igw-0397923b44a67fba6 / mynewigw2

Actions

Details info

| | | | |
|-----------------------|----------|--------|--------------|
| Internet gateway ID | State | VPC ID | Owner |
| igw-0397923b44a67fba6 | Detached | - | 481053421884 |

Tags Manage tags

Search tags

| Key | Value |
|------|-----------|
| Name | mynewigw2 |

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#AttachInternetGatewayinternetGatewayId=igw-0397923b44a67fba6

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VPC > Internet gateways > Attach to VPC (igw-0397923b44a67fba6)

Attach to VPC (igw-0397923b44a67fba6) info

VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs

Attach the internet gateway to this VPC.

Q vpc-0b5695915e2d7510b X

AWS Command Line Interface command

Cancel [Attach internet gateway](#)

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#InternetGatewayinternetGatewayId=igw-0397923b44a67fba6

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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 **Internet Gateways** Egress Only Internet Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services **NAT Gateways** Peering Connections **SECURITY** Network ACLs

Internet gateway igw-0397923b44a67fba6 successfully attached to vpc-0b5695915e2d7510b

VPC > Internet gateways > igw-0397923b44a67fba6

igw-0397923b44a67fba6 / mynewigw2 Actions

Details info

| | | | |
|--|-------------------|---|-----------------------|
| Internet gateway ID igw-0397923b44a67fba6 | State Attached | VPC ID vpc-0b5695915e2d7510b mynewvpc2 | Owner 481053421884 |
|--|-------------------|---|-----------------------|

Tags

Search tags

| Key | Value |
|------|-----------|
| Name | mynewigw2 |

Manage tags

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Route Table

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#CreateRouteTable

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Create route table

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.
mynewroute2

VPC
The VPC to use for this route table.
vpc-0b5695915e2d7510b (mynewvpc2)

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

Q Name X Q mynewroute2 X Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTableDetails:RouteTableId=rtb-016c6776030b2ae26

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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 DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways Peering Connections New SECURITY Network ACLs

Route table rtb-016c6776030b2ae26 | mynewroute2 was created successfully.

VPC > Route tables > rtb-016c6776030b2ae26

rtb-016c6776030b2ae26 / mynewroute2

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

Details Info

| | | | |
|--|--------------------------|-----------------------------------|------------------------|
| Route table ID rtb-016c6776030b2ae26 | Main No | Explicit subnet associations - | Edge associations - |
| VPC vpc-0b5695915e2d7510b mynewvpc2 | Owner ID 481053421884 | | |

Routes Subnet associations Edge associations Route propagation Tags

Routes (1) Edit routes

Filter routes Both

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#RouteTables

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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 DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services New NAT Gateways Peering Connections New SECURITY Network ACLs

You successfully set the route table rtb-016c6776030b2ae26 / mynewroute2 as main.

Route tables (5) Info

Filter route tables

| | Name | Route table ID | Explicit subnet associat... | Edge associations | Main | VPC | Own... |
|--------------------------|--------------|-----------------------|-----------------------------|-------------------|------|-------------------------------|--------|
| <input type="checkbox"/> | mynewroute12 | rtb-0c76f54867f208f32 | - | - | Yes | vpc-022a1e2519714269f my... | 48105 |
| <input type="checkbox"/> | mynewroute2 | rtb-016c6776030b2ae26 | - | - | Yes | vpc-0b5695915e2d7510b m... | 48105 |
| <input type="checkbox"/> | - | rtb-0868ae397257a318b | - | - | No | vpc-0b5695915e2d7510b m... | 48105 |
| <input type="checkbox"/> | - | rtb-00e02d8ea25878058 | - | - | No | vpc-022a1e2519714269f my... | 48105 |
| <input type="checkbox"/> | - | rtb-b6291fdd | - | - | Yes | vpc-7c365f17 | 48105 |

Select a route table

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#EditRoutes:RouteTableId=rtb-016c6776030b2ae26

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VPC > Route tables > rtb-016c6776030b2ae26 > Edit routes

Edit routes

| Destination | Target | Status | Propagated |
|-------------|-----------------------|--------|------------|
| 40.0.0.0/16 | local | Active | No |
| 0.0.0.0/0 | igw-0397923b44a67fba6 | - | No |

Add route

Cancel Preview Save changes

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Subnets

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#subnets:

Subnets (4) Info

Filter subnets

| | Name | Subnet ID | State | VPC | IPv4 CIDR | IPv6 CIDR |
|--------------------------|-------------|--------------------------|-----------|-------------------------------|----------------|-----------|
| <input type="checkbox"/> | mysubnet123 | subnet-023e1a3a0ff5870e3 | Available | vpc-022a1e2519714269f my... | 40.0.0.0/24 | - |
| <input type="checkbox"/> | - | subnet-d4d01fa9 | Available | vpc-7c365f17 | 172.31.16.0/20 | - |
| <input type="checkbox"/> | - | subnet-89e273e2 | Available | vpc-7c365f17 | 172.31.0.0/20 | - |
| <input type="checkbox"/> | - | subnet-fdb087b1 | Available | vpc-7c365f17 | 172.31.32.0/20 | - |

Select a subnet

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#CreateSubnet:

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

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

mynewsubnet2

The name can be up to 256 characters long.

Availability Zone Info

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference

IPv4 CIDR block Info

40.0.0.0/16

Tags - optional

Key

Q Name X

Value - optional

Q mynewsubnet2 X Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#subnets:SubnetId=subnet-04715ec03241f6268

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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
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services New
- NAT Gateways
- Peering Connections New

SECURITY Network ACLs

You have successfully created 1 subnet: subnet-04715ec03241f6268

Subnets (1) Info

Filter subnets

Subnet ID: subnet-04715ec03241f6268 Clear filters

| | Name | Subnet ID | State | VPC | IPv4 CIDR | IPv6 CIDR |
|--------------------------|----------------|--------------------------|-----------|------------------------------|-------------|-----------|
| <input type="checkbox"/> | mynews subnet2 | subnet-04715ec03241f6268 | Available | vpc-0b5695915e2d7510b m... | 40.0.0.0/16 | - |

Select a subnet

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#ModifyAutoAssignIpSettings:subnetId=subnet-04715ec03241f6268

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VPC > Subnets > subnet-04715ec03241f6268 > Modify auto-assign IP settings

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-04715ec03241f6268

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

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New instance

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

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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-0b5695915e2d7510b | mynewvpc2 Create new VPC

Subnet subnet-04715ec03241f6268 | mynewsubnet2 | us-east-2 Create new subnet
65531 IP Addresses available

Auto-assign Public IP Use subnet setting (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

Shutdown behavior Stop

Stop - Hibernate behavior ☐ Enable hibernation as an additional stop behavior

Enable termination protection ☐ Protect against accidental termination

Cancel Previous Review and Launch Next: Add Storage

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us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:

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New EC2 Experience Tell us what you think

EC2 Dashboard

Events

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager New

Instances (1/3) Info

Filter instances

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone | Public IPv4 DNS |
|-------------------------------------|--------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|-----------------|
| <input type="checkbox"/> | newinstance | i-025abff0f162f846 | Terminated | t2.micro | - | No alarms | us-east-2a | - |
| <input checked="" type="checkbox"/> | newinstance3 | i-05ce99af5bc8dff9d | Running | t2.micro | 2/2 checks passed | No alarms | us-east-2b | - |
| <input type="checkbox"/> | - | i-0f699978b4c81ba56 | Running | t2.micro | - | No alarms | us-east-2b | - |

Instance: i-05ce99af5bc8dff9d

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary Info

| | | |
|---------------------|-----------------------------|------------------------|
| Instance ID | Public IPv4 address | Private IPv4 addresses |
| i-05ce99af5bc8dff9d | 3.15.166.247 open address | 40.0.0.154 |
| IPv6 address | Instance state | Public IPv4 DNS |
| - | Running | - |
| Private IPv4 DNS | Instance type | Elastic IP addresses |

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