

Assignment 4

Working with VPC

The screenshot displays the AWS VPC Management Console for the us-east-2 region. The left sidebar contains navigation links for VPC Dashboard, EC2 Global View, and various VPC resources. The main content area, titled 'Resources by Region', lists the following resources and their counts:

Resource	Count
VPCs	1
Subnets	5
Route Tables	1
Internet Gateways	1
Egress-only Internet Gateways	0
DHCP options sets	1
Elastic IPs	0
Endpoints	0
Endpoint Services	0
NAT Gateways	0
VPC Peering Connections	0
Network ACLs	1
Security Groups	2
Customer Gateways	0
Virtual Private Gateways	0
Site-to-Site VPN Connections	0
Running Instances	1

The right sidebar includes 'Service Health' (Amazon EC2 - US East (Ohio) is operating normally), 'Settings', 'Additional Information', 'Transit Gateway Network Manager', and 'Site-to-Site VPN Connections'.

Create your VPC

This screenshot is identical to the one above, showing the AWS VPC Management Console for the us-east-2 region. It displays the same list of VPC resources and their counts, as well as the service health and settings sections.

Create an internet gateway

Internet gateway igw-010b3726b294358a2 successfully attached to vpc-0fb06699a6bb5571a

VPC > Internet gateways > igw-010b3726b294358a2

igw-010b3726b294358a2 / newinternetgateway

Details info

Internet gateway ID	State	VPC ID	Owner
igw-010b3726b294358a2	Attached	vpc-0fb06699a6bb5571a mynewvpc	095691196480

Tags

Search tags

Key	Value
Name	newinternetgateway

Feedback English (US)

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Create a subnet-Enable auto assign public IP

VPC > Subnets > Create subnet

Create subnet info

VPC

VPC ID
Create subnets in this VPC.
vpc-0fb06699a6bb5571a (mynewvpc)

Associated VPC CIDRs

IPv4 CIDRs
30.0.0.0/16

Subnet settings

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.
mynewsubnet
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
30.0.0.0/24

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us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#subnets:SubnetId=subnet-0f2f2c873c66a9d88

Services Search for services, features, marketplace products, and docs [Alt+S]

New VPC Experience Tell us what you think

VPC Dashboard EC2 Global View 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 Security Groups

REACHABILITY

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You have successfully created 1 subnet: subnet-0f2f2c873c66a9d88

Subnets (1) Info

Filter subnets

Subnet ID: subnet-0f2f2c873c66a9d88 Clear filters

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Avail
<input type="checkbox"/>	mynews subnet	subnet-0f2f2c873c66a9d88	Available	vpc-0fb06699a6bb5571a my...	30.0.0.0/24	-	251	us-ea

Select a subnet

us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#subnets:SubnetId=subnet-0f2f2c873c66a9d88

Services Search for services, features, marketplace products, and docs [Alt+S]

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You have successfully modified auto-assign IP settings.

- Public IPv4 address

Subnets (1/1) Info

Filter subnets

Subnet ID: subnet-0f2f2c873c66a9d88 Clear filters

<input checked="" type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Avail
<input checked="" type="checkbox"/>	mynews subnet	subnet-0f2f2c873c66a9d88	Available	vpc-0fb06699a6bb5571a my...	30.0.0.0/24	-	251	us-ea

Details

Subnet ID	Subnet ARN	State	IPv4 CIDR
subnet-0f2f2c873c66a9d88	arn:aws:ec2:us-east-2:095691196480:subnet/subnet-0f2f2c873c66a9d88	Available	30.0.0.0/24
Available IPv4 addresses	IPv6 CIDR	Availability Zone	Availability Zone ID
251	-	us-east-2a	use2-az1
VPC	Route table	Network ACL	Default subnet
vpc-0fb06699a6bb5571a mynewvpc	rtb-05a3cfd14636209	acl-066e3646b1983b9f8	No
Auto-assign public IPv4 address	Auto-assign IPv6 address	Auto-assign customer-owned IPv4 address	Customer-owned IPv4 pool
Yes	No	No	-
Outpost ID	IPv4 CIDR reservations	IPv6 CIDR reservations	Owner
-	-	-	095691196480

Create a route table-Make it the main route table-add a route table entry to IGW Launch an instance in custom VPC

The image shows two screenshots of the AWS Management Console. The top screenshot shows the 'Create route table' wizard. The bottom screenshot shows the 'Route table details' page for the newly created route table.

Top Screenshot: Create route table

The 'Create route table' wizard is displayed. The 'Route table settings' section shows the 'Name' field set to 'mynewroute' and the 'VPC' dropdown set to 'vpc-0fb06699a6bb5571a (mynewvpc)'. The 'Tags' section shows a single tag with the key 'Name' and the value 'mynewroute'. The 'Create route table' button is highlighted in orange.

Bottom Screenshot: Route table details

The 'Route table details' page for the route table 'rtb-0edd6b937ebd37528 / mynewroute' is shown. The 'Details' section displays the following information:

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-0edd6b937ebd37528	Yes	-	-

The 'Routes' section shows a single route with the following details:

Destination	Target	Status	Propagated
30.0.0.0/16	local	Active	No

The screenshot shows the AWS Management Console interface for a VPC. The top navigation bar includes the AWS logo, a search bar, and various service links. The main content area is titled 'Updated routes for rtb-0edd6b937ebd37528 / mynewroute successfully'. Below this, the 'Route Tables' page is displayed for the specific route table ID 'rtb-0edd6b937ebd37528'. The page shows details such as the route table ID, main status (Yes), owner ID (095691196480), and a list of routes. The 'Routes' tab is selected, showing two routes: one for local traffic and one for internet gateway traffic, both with an 'Active' status.

Destination	Target	Status	Propagated
30.0.0.0/16	local	Active	No
0.0.0.0/0	igw-010b3726b294358a2	Active	No