

Creating a VPC using a wizard - Scenario 1 – VPC with a single public subnet

The screenshot displays the AWS Management Console interface for the 'us-east-1' region. The top navigation bar includes the AWS logo, 'Services' link, a search bar, and a list of services. The main content area is titled 'Your VPCs (1/2)' and features a table of VPCs. The table lists two VPCs: one with ID 'vpc-08b0f0547be6b7674' and another with ID 'vpc-0e7da5f7b95515177' (named 'WizardVPC-vpc'). The 'WizardVPC-vpc' is selected, and its details are shown in the 'Resource map' section below. The 'Resource map' includes a 'VPC' box labeled 'WizardVPC-vpc', a 'Subnets (1)' box labeled 'us-east-1a' containing 'WizardVPC-subnet-public1-us-east-1a', a 'Route tables (2)' box containing 'WizardVPC-rtb-public' and 'rtb-0bd32749660d1569b', and a 'Network connections' box. The 'WizardVPC-subnet-public1-us-east-1a' is connected to the 'WizardVPC-rtb-public' route table.

Your VPCs (1/2)

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-08b0f0547be6b7674	Available	172.31.0.0/16	-
WizardVPC-vpc	vpc-0e7da5f7b95515177	Available	10.0.0.0/16	-

vpc-0e7da5f7b95515177 / WizardVPC-vpc

Details | **Resource map New** | CIDRs | Flow logs | Tags

Resource map

- VPC** (Show details): Your AWS virtual network. WizardVPC-vpc
- Subnets (1)** (Subnets within this VPC): us-east-1a. WizardVPC-subnet-public1-us-east-1a
- Route tables (2)** (Route network traffic to resources): WizardVPC-rtb-public, rtb-0bd32749660d1569b
- Network connections**: WizardVPC-conn-public1-us-east-1a, WizardVPC-conn-private1-us-east-1a

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Creating a VPC using a wizard - Scenario 2 – VPC with public and private subnets

The screenshot shows the AWS Management Console interface for the 'us-east-1' region. The left sidebar contains navigation links for VPC dashboard, EC2 Global View, and various VPC services. The main content area displays 'Your VPCs (1/2)' with a table listing VPCs. The 'VPC Wizard-vpc' is selected, and the 'Resource map' tab is active, showing a diagram of the VPC structure. The diagram includes a VPC box labeled 'VPC Wizard-vpc', two subnets labeled 'us-east-1a' (one public and one private), and three route tables (one private and two public). A feedback prompt is visible at the bottom left.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-08b0f0547be6b7674	Available	172.31.0.0/16	-
VPC Wizard-vpc	vpc-0a22a1eeb9d5a84b2	Available	10.0.0.0/16	-

Resource map

- VPC** (Show details): Your AWS virtual network. VPC Wizard-vpc.
- Subnets (2)** (Subnets within this VPC):
 - us-east-1a
 - VPC Wizard-subnet-public1-us-east-1a
 - VPC Wizard-subnet-private1-us-east-1a
- Route tables (3)** (Route network traffic to resources):
 - VPC Wizard-rtb-private1-us-east-1a (rtb-055c5296b1f5bc922)
 - VPC Wizard-rtb-public

Creating a VPC using a wizard - Scenario 3 – VPC with public and private subnets and hardware VPN access

Creating a VPC using a wizard - Scenario 4 – VPC with a private subnet only and hardware VPN access

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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

Peering connections

Security

Network ACLs

Route tables (1/5)

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associati...	Edge associations	Main
<input checked="" type="checkbox"/> Lab-rtb-private1-us-east-1a	rtb-028e469a875bdd377	subnet-030f10fd1fcd9c3...	-	No
<input type="checkbox"/> packt-rt	rtb-03e39a2662f723345	subnet-0b1843fe61b61f...	-	No
<input type="checkbox"/> -	rtb-0ac0f17f1281b2f79	-	-	Yes
<input type="checkbox"/> Lab-rtb-public	rtb-00ef4e909d9723690	-	-	No
<input type="checkbox"/> -	rtb-02fc4cf985d64e78f	-	-	Yes

Routes (3)

Filter routes

Both

Destination	Target	Status	Propagated
pl-63a5400a	vpce-0a743b0a7f1044afe	Active	No
0.0.0.0/0	igw-04f32df48c4b9ce69	Active	No
10.0.0.0/24	local	Active	No

CloudShell

Feedback

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NAT gateways (1/1)

Filter NAT gateways

vit...	State	State message	Primary public IPv4 ad...	Primary private IPv4 address	Primary networ...	VPC
	Available	-	54.84.117.253	10.0.0.10	eni-0e0febb5b5afa...	vpc-04af37f228722b...

nat-03b21666c57f05716

CloudShell

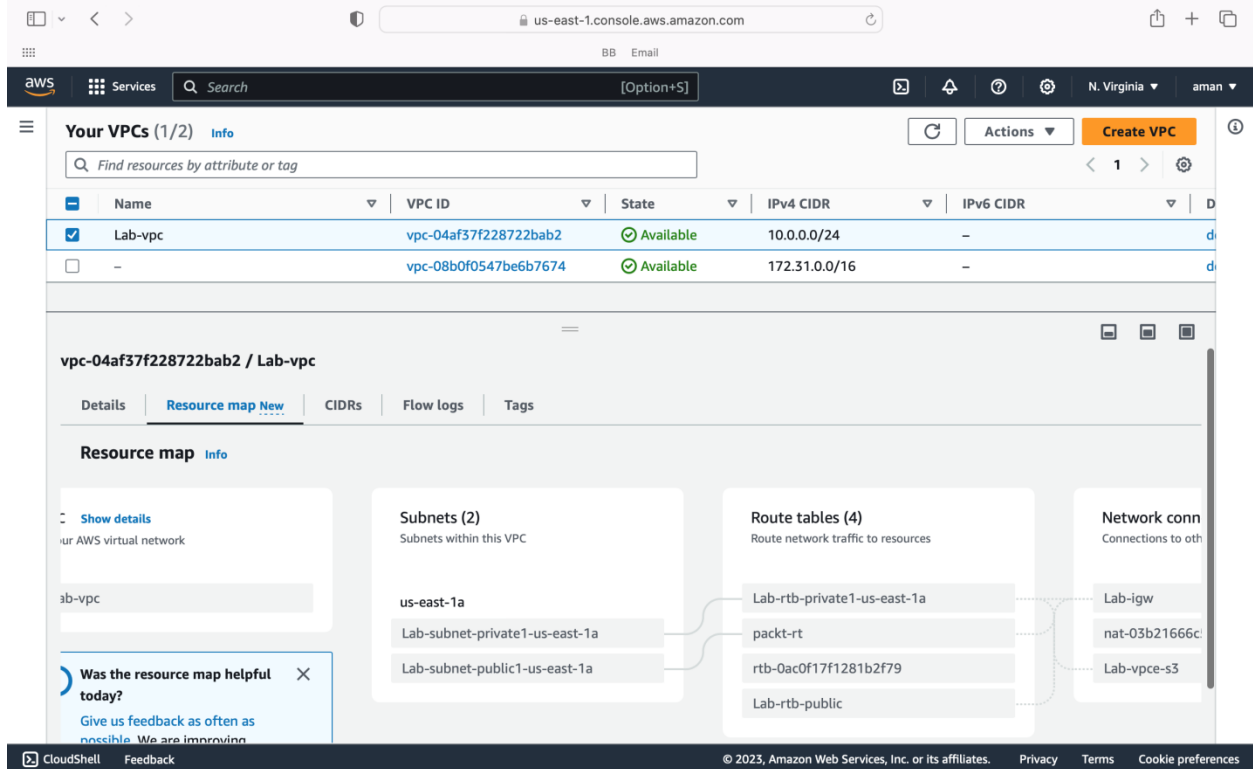
Feedback

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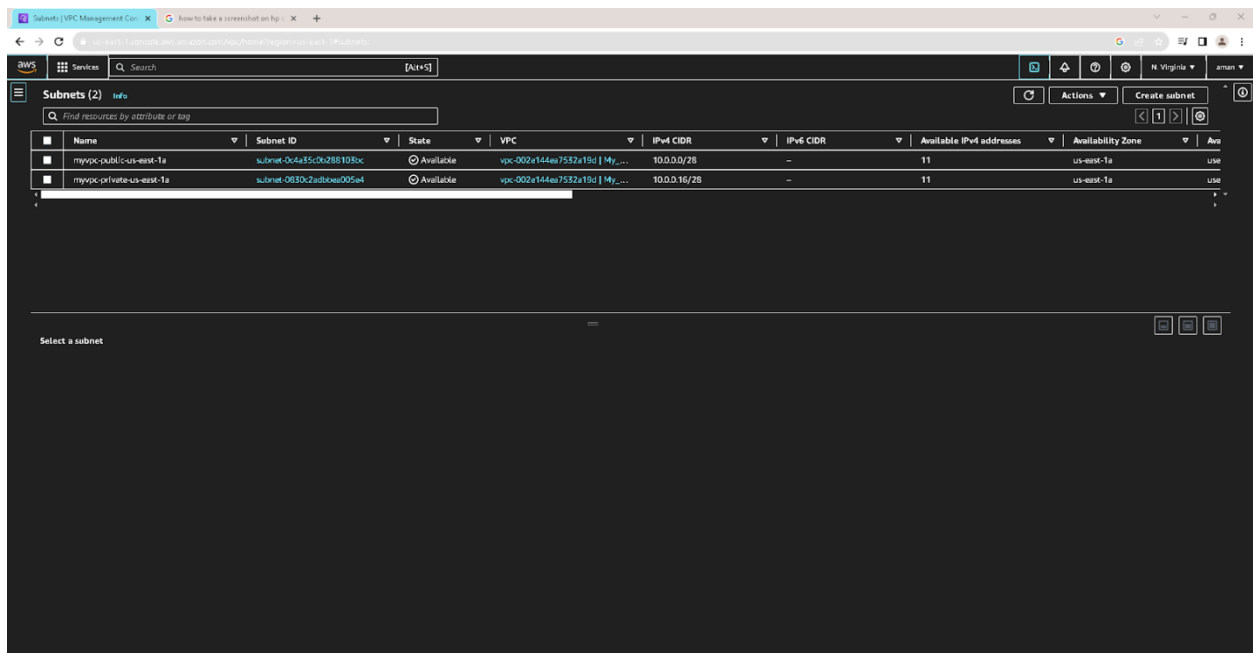
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Creating a VPC without using the wizard

VPC without wizard. Creation of public & private subnet



Creating an Allocated Elastic IP

Elastic IP address allocated successfully.
Elastic IP address 44.219.197.35

Associate this Elastic IP address

Elastic IP addresses (1/2)

Filter Elastic IP addresses

Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record	Associated Instance ID	Private IP address	Association ID	Network
-	44.219.197.35	Public IP	epelloc-00c7f02b2d45d19	-	-	-	-	-
us-east-1a	54.84.117.253	Public IP	epelloc-09f07d3c3f7e89db3	-	-	-	-	-

View IP address usage and recommendations to release unused IPs with [Public IP insights](#)

54.84.117.253

Summary Tags

Summary

Allocated IPv4 address 54.84.117.253	Type Public IP	Allocation ID epelloc-09f07d3c3f7e89db3	Reverse DNS record -
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Main route table & custom route table

Route tables (1/3)

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC	Owner ID
-	rtb-02f0c9f85d64e78f	-	-	Yes	vpc-08u0f0547b6b7674	692215778807
Main_Route_Table	rtb-06e1eeabfd36752aa	-	-	Yes	vpc-002e144ee7532a19d My...	692215778807
myapp-public-us-east-1	rtb-0b78u072ub3d3191	subnet-0c435c0b288103...	-	No	vpc-002e144ee7532a19d My...	692215778807

rtb-06e1eeabfd36752aa / Main_Route_Table

Details Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Filter routes Both

Destination	Target	Status	Propagated
10.0.0.0/24	local	Active	No

Subnet associated with route table

Subnet (subnet-0c4a35c0b288103bc) has been successfully associated with route table (rtb-0b76b0f2b8b3d3191).

Subnets (1/2)

Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Availa
myvpc-public-us-east-1a	subnet-0c4a35c0b288103bc	Available	vpc-002e144ee7532a13d My...	10.0.0/28	-	10	us-east
myvpc-private-us-east-1a	subnet-0680c2acdbaa005e4	Available	vpc-002e144ee7532a13d My...	10.0.16/28	-	11	us-east

subnet-0c4a35c0b288103bc / myvpc-public-us-east-1a

Details Flow logs Route table Network ACL CIDR reservations Sharing Tags

Route table: rtb-0b76b0f2b8b3d3191 / myvpc-public-us-east-1

Edit route table association

Routes (2)

Filter routes

Destination	Target
10.0.0/24	local
0.0.0.0/0	lgw-05453ac9a209c7fd1

Default Gateway

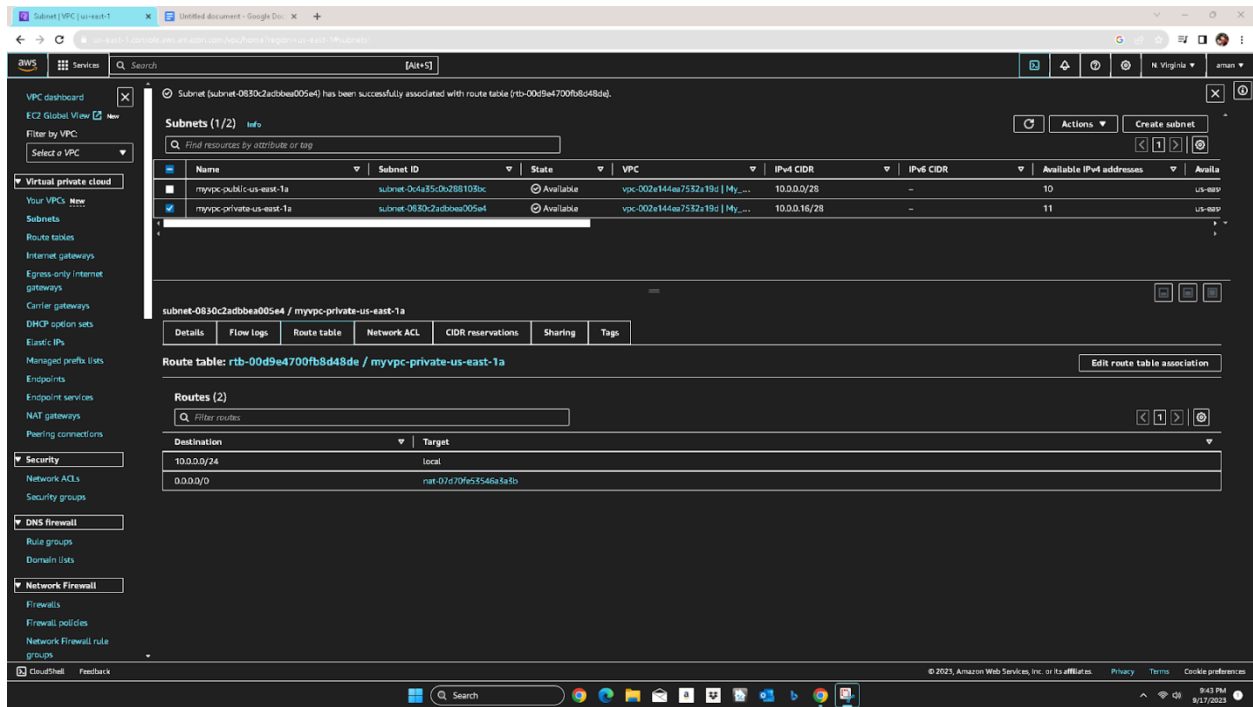
Internet gateways (2)

Filter internet gateways

Name	Internet gateway ID	State	VPC ID	Owner
myvpc-ig	igw-05453ac9a209c7fd1	Attached	vpc-002e144ee7532a13d My_VPC	692215778807
-	igw-0f94a01f120aa8986	Attached	vpc-08b0f0547be607674	692215778807

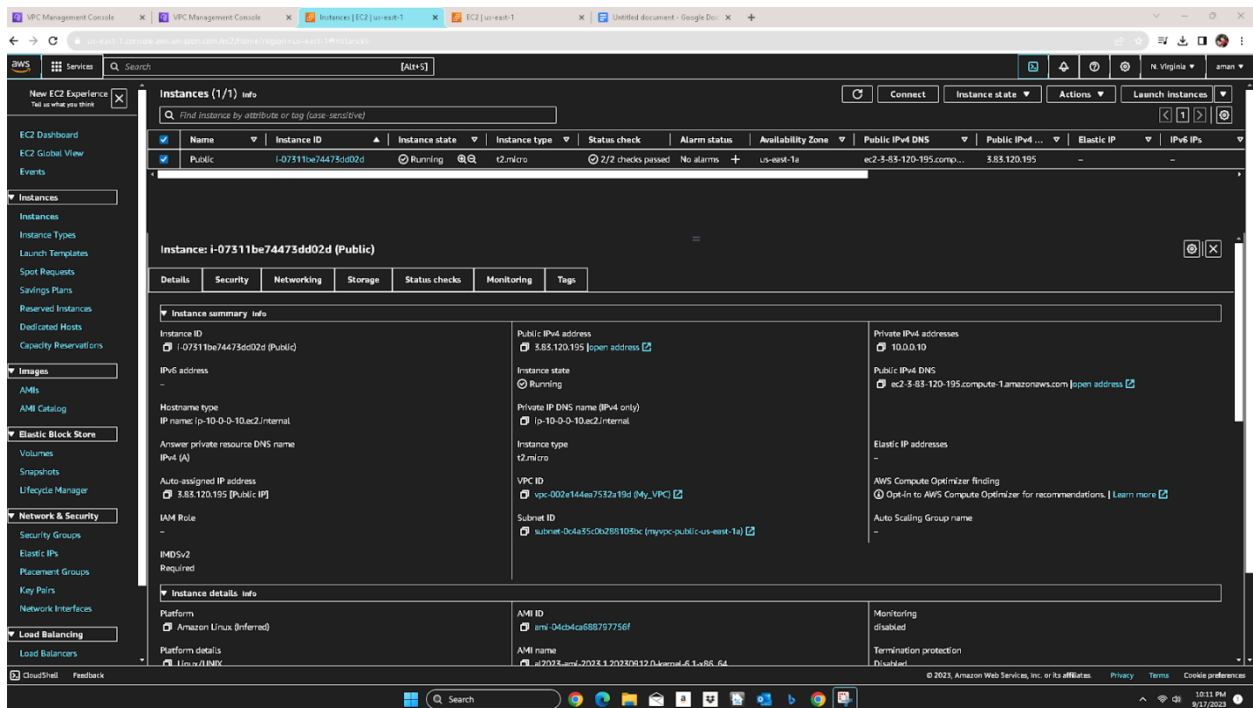
Select an internet gateway above

Private subnet connected to NAT gateway with route defined:



Creating instances in a VPC

EC2 connected to VPC



Health Check:

Environment overview - events

VPC Management Console

Instances | EC2 | us-east-1

EC2 | us-east-1

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Elastic Beanstalk

Applications

Environments

Change history

Applications: project1

Application versions

Saved configurations

Environment: Project1-env

Go to environment

Configuration

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Recent environments

Project1-env

Proj-env

App-env

Project-env

Project1-env

info

Actions

Upload and deploy

Platform

Change version

Environment overview

Platform

Health

Unknown

Domain

-

Environment ID

je-wefepwsgd

Application name

project1

Platform

Tomcat 10 with Corretto 17 running on 64bit Amazon Linux 2023/5.0.2

Running version

-

Platform state

Supported

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Events (6)

info

Filter events by text, property or value

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Time

Type

Details

September 17, 2023 22:47:54 (UTC-4)

INFO

Deleting SNS topic for environment Project1-env.

September 17, 2023 22:47:53 (UTC-4)

ERROR

Failed to launch environment.

September 17, 2023 22:47:53 (UTC-4)

ERROR

The instance profile AWSCloud9SSMinstanceProfile associated with the environment has no role. Please attach a role to the instance profile.

September 17, 2023 22:45:45 (UTC-4)

INFO

Environment health has transitioned to Pending. Initialization in progress (running for 41 seconds). There are no instances.

September 17, 2023 22:44:47 (UTC-4)

INFO

Using elasticbeanstalk-us-east-1-692215778807 as Amazon S3 storage bucket for environment data.

September 17, 2023 22:44:46 (UTC-4)

INFO

createEnvironment is starting.

CloudShell

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