

# **Virtual Systems and Services**

## **Build your VPC and Launch a Web Server**

### **LAB # 02**

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**Roll no : BITF20M528**

# lab02

Workbench - Vocareum

labs.vocareum.com/main/main.php?m=clabide&mode=s&asnid=2610314&stepid=2610315&hideNavBar=1

AWS

Start LabEnd LabAWS DetailsDetails

SubmitSubmission ReportGrades

EN-US

## Lab 2: Build your VPC and Launch a Web Server

### Lab overview and objectives

In this lab, you will use Amazon Virtual Private Cloud (VPC) to create your own VPC and add additional components to produce a customized network. You will also create a security group. You will then configure and customize an EC2 instance to run a web server and you will launch the EC2 instance to run in a subnet in the VPC.

**Amazon Virtual Private Cloud (Amazon VPC)** enables you to launch Amazon Web Services (AWS) resources into a virtual network that you defined. This virtual network closely resembles a traditional network that you would operate in your own data center, with the benefits of using the scalable infrastructure of AWS. You can create a VPC that spans multiple Availability Zones.

After completing this lab, you should be able to do the following:

Workbench - Vocareum

Console Home | Console

us-east-1.console.aws.amazon.com/console/home?region=us-east-1#

aws

Services

Search

[Alt+S]

N. Virginia

voclabs/user3046381-b1tf20m528@pucit.edu.pk @ 6374-2337-3047

Console Home

Reset to default layout

+ Add widgets

Recently visited

IAM

View all services

Applications (0)

Region: US East (N. Virginia)

us-east-1 (Current Region)

Find applications

< 1 >

Name	Description	Region	Originating a...
No applications Get started by creating an application.			

Create application

Go to myApplications

CloudShell

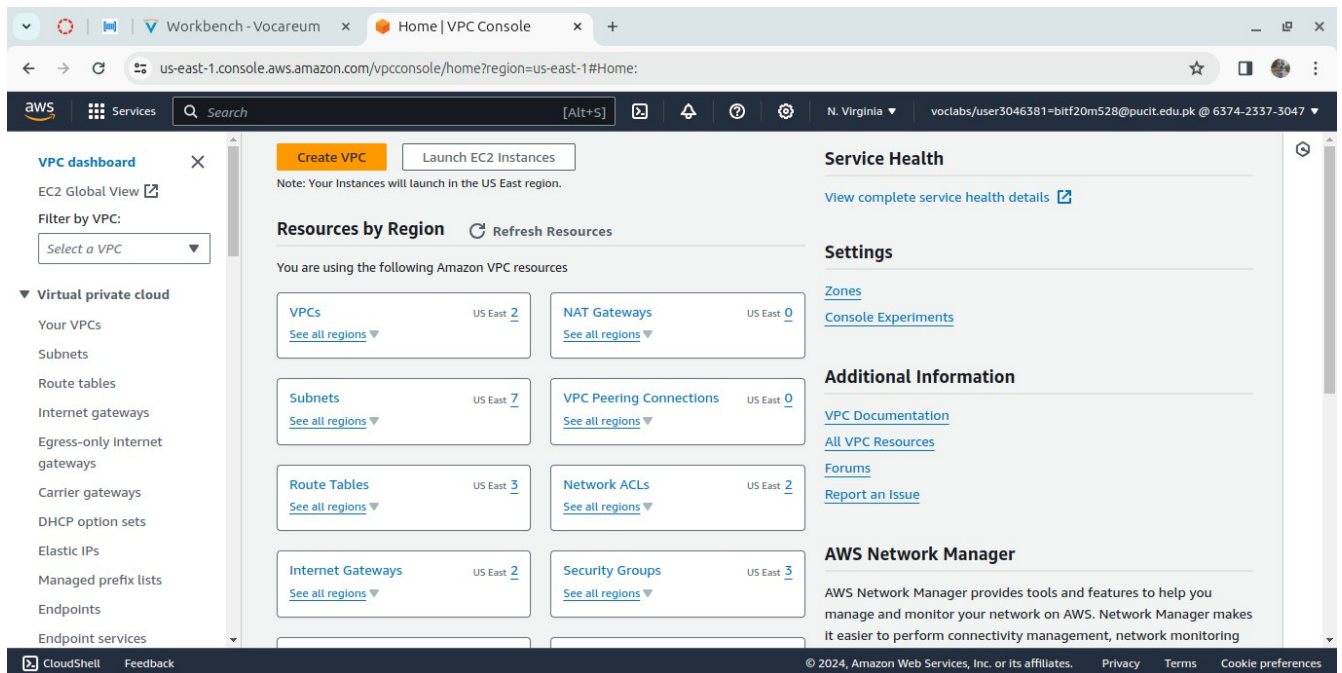
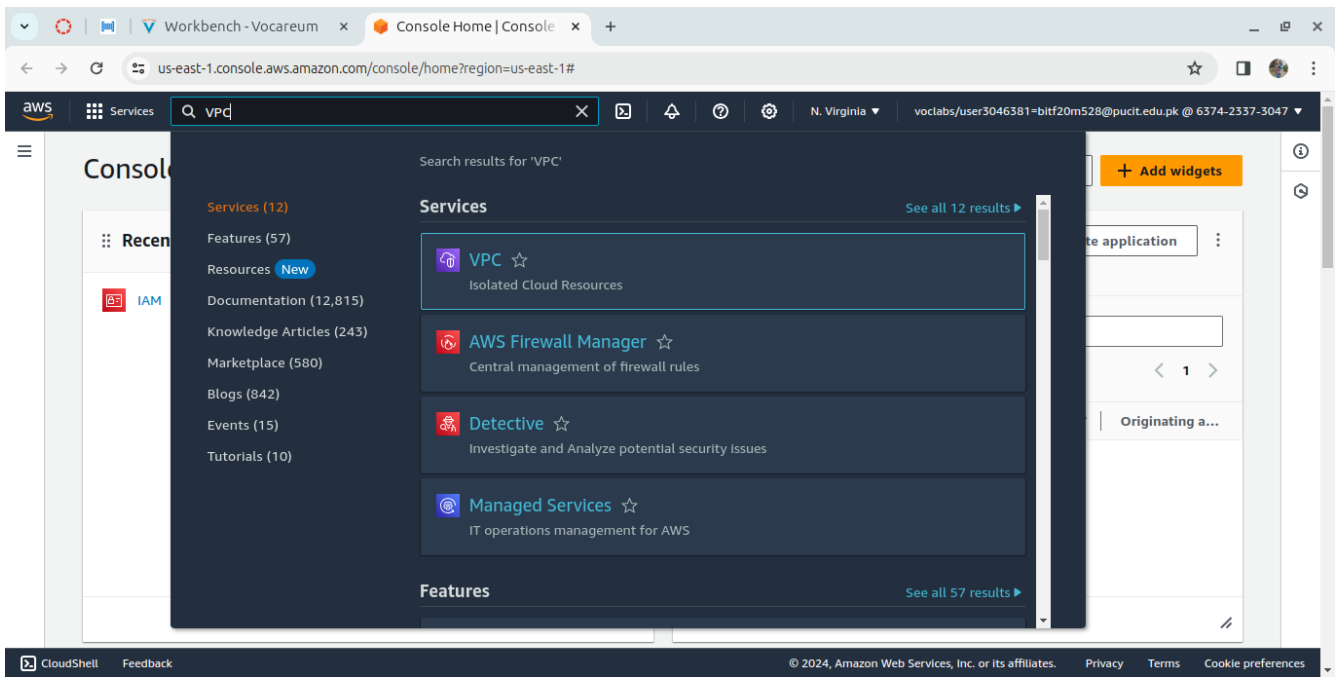
Feedback

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Workbench - Vocareum x vpcs | VPC Console x +

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#vpcs:

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

VPC dashboard X

EC2 Global View

Filter by VPC:

Select a 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

Your VPCs (2) Info

Search

Actions Create VPC

<input type="checkbox"/>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	Work VPC	<a href="#">vpc-0b8157d22598caddb</a>	Available	10.0.0.0/16	-
<input type="checkbox"/>	-	<a href="#">vpc-07017a1cc1b65d8e5</a>	Available	172.31.0.0/16	-

Select a VPC above

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Workbench - Vocareum x CreateVpc | VPC Console x +

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#CreateVpc:createMode=vpcOnly

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

VPC > Your VPCs > Create VPC

## Create VPC Info

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

**VPC settings**

**Resources to create** Info

Create only the VPC resource or the VPC and other networking resources.

☒ VPC only ☐ VPC and more

**Name tag - optional**

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

my-vpc-01

**IPv4 CIDR block** Info

☒ IPv4 CIDR manual input ☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR

10.0.0.0/24

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Workbench - Vocareum x CreateVpcWizard | VPC x +

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateVpcWizard:

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

VPC > Your VPCs > Create VPC > Create VPC resources

## Create VPC workflow

Wait for NAT Gateways to activate 72%

Details

- ✓ Create VPC: [vpc-0e66229bf6640647b](#)
- ✓ Enable DNS hostnames
- ✓ Enable DNS resolution
- ✓ Verifying VPC creation: [vpc-0e66229bf6640647b](#)
- ✓ Create subnet: [subnet-07c6aa8ad1145711b](#)
- ✓ Create subnet: [subnet-07561f6d1e8b8cebc](#)
- ✓ Create internet gateway: [lgw-0989e2204543f3f67](#)
- ✓ Attach internet gateway to the VPC
- ✓ Create route table: [rtb-0cd797a34cd703b59](#)
- ✓ Create route
- ✓ Associate route table
- ✓ Allocate elastic IP: [elpalloc-0cb0101fb494267f7](#)

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Workbench - Vocareum x CreateVpcWizard | VPC x +

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateVpcWizard:

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

VPC > Your VPCs > Create VPC > Create VPC resources

## Create VPC workflow

Success

Details

- ✓ Create VPC: [vpc-0e66229bf6640647b](#)
- ✓ Enable DNS hostnames
- ✓ Enable DNS resolution
- ✓ Verifying VPC creation: [vpc-0e66229bf6640647b](#)
- ✓ Create subnet: [subnet-07c6aa8ad1145711b](#)
- ✓ Create subnet: [subnet-07561f6d1e8b8cebc](#)
- ✓ Create internet gateway: [lgw-0989e2204543f3f67](#)
- ✓ Attach internet gateway to the VPC
- ✓ Create route table: [rtb-0cd797a34cd703b59](#)
- ✓ Create route
- ✓ Associate route table
- ✓ Allocate elastic IP: [elpalloc-0cb0101fb494267f7](#)
- ✓ Create NAT gateway: [nat-0ef9fc76e47be775f](#)

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subnets | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets:

aws

Services

Search

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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

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

Subnets (7) Info

Find resources by attribute or tag

	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	-	<a href="#">subnet-06fec139c65e37af7</a>	Available	<a href="#">vpc-07017a1cc1b65d8e5</a>	172.31.0.0/24
<input type="checkbox"/>	-	<a href="#">subnet-0b13bf2453448b471</a>	Available	<a href="#">vpc-07017a1cc1b65d8e5</a>	172.31.0.0/24
<input type="checkbox"/>	-	<a href="#">subnet-0546e77f9ee2908ae</a>	Available	<a href="#">vpc-07017a1cc1b65d8e5</a>	172.31.0.0/24
<input type="checkbox"/>	-	<a href="#">subnet-0ac3daa120e0e26f2</a>	Available	<a href="#">vpc-07017a1cc1b65d8e5</a>	172.31.0.0/24
<input type="checkbox"/>	-	<a href="#">subnet-05c32562057e6881d</a>	Available	<a href="#">vpc-07017a1cc1b65d8e5</a>	172.31.0.0/24

Select a subnet

Create subnet

Actions

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CreateSubnet | VPC Console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateSubnet:

aws

Services

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VPC

Subnets

Create subnet

Create subnet Info

VPC

VPC ID

Create subnets in this VPC.

Select a VPC

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Select a VPC first to create new subnets.

Add new subnet

Cancel

Create subnet

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Workbench - Vocareum x Subnets | VPC Management x

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets:SubnetId=subnet-03fc8c8d970087cf6

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

VPC dashboard x

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs

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Endpoint services

You have successfully created 1 subnet: subnet-03fc8c8d970087cf6

Subnets (1) Info

Find resources by attribute or tag

Subnet ID : subnet-03fc8c8d970087cf6 x Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	lab-subnet-public2	subnet-03fc8c8d970087cf6	Available	vpc-0e66229bf6640647b   lab-...	10.0.2.0

Select a subnet

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Workbench - Vocareum x Subnets | VPC Management x

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets:SubnetId=subnet-0eee5577860f0740a

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

VPC dashboard x

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

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Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

You have successfully created 1 subnet: subnet-0eee5577860f0740a

Subnets (1) Info

Find resources by attribute or tag

Subnet ID : subnet-0eee5577860f0740a x Clear filters

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/>	lab-subnet-private2	subnet-0eee5577860f0740a	Available	vpc-0e66229bf6640647b   lab-...	10.0.3.0

Select a subnet

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Workbench - Vocareum x RouteTables | VPC Consol

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#RouteTables:

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

VPC dashboard  
EC2 Global View  
Filter by VPC:  
Select a VPC

Virtual private cloud  
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Route tables  
Internet gateways  
Egress-only Internet gateways  
Carrier gateways  
DHCP option sets  
Elastic IPs  
Managed prefix lists  
Endpoints  
Endpoint services

Route tables (3) Info

Find resources by attribute or tag

1

Create route table

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main
<input type="checkbox"/>	-	<a href="#">rtb-0fc78ac97962039ff</a>	-	-	Yes
<input type="checkbox"/>	-	<a href="#">rtb-06fa0ea31730cf7ed</a>	-	-	Yes
<input type="checkbox"/>	Work Public Route Table	<a href="#">rtb-0cb7351cc549e4bcc</a>	<a href="#">subnet-0cedf036c3baf1e...</a>	-	No

Select a route table

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Workbench - Vocareum x RouteTables | VPC Consol

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#RouteTables:

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

VPC dashboard  
EC2 Global View  
Filter by VPC:  
Select a VPC

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Carrier gateways  
DHCP option sets  
Elastic IPs  
Managed prefix lists  
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Endpoint services

Route tables (1/6) Info

Find resources by attribute or tag

1

Create route table

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main
<input type="checkbox"/>	-	<a href="#">rtb-06fa0ea31730cf7ed</a>	-	-	Yes
<input type="checkbox"/>	Work Public Route Table	<a href="#">rtb-0cb7351cc549e4bcc</a>	<a href="#">subnet-0cedf036c3baf1e...</a>	-	No

rtb-023f8d27565b9335e / lab-rtb-private1-us-east-1a

Details Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Filter routes

Both Edit routes

1

Destination	Target	Status	Propagated
0.0.0.0/0	<a href="#">nat-0ef9fc76e47be775f</a>	Active	No
10.0.0.0/16	local	Active	No

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us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTables:

Services

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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

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Internet gateways

Egress-only Internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

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Route tables (1/6) Info

Find resources by attribute or tag

	Name	Route table ID	Explicit subnet associ...	Edge associations	Main
<input type="checkbox"/>		rtb-06fa0ea31730cf7ed	-	-	Yes
<input type="checkbox"/>	Work Public Route Table	rtb-0cb7351cc549e4bcc	subnet-0cedf036c3baf1e...	-	No

rtb-023f8d27565b9335e / lab-rtb-private1-us-east-1a

Details

Routes

Subnet associations

Edge associations

Route propagation

Tags

Explicit subnet associations (1)

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
lab-subnet-private1-us-east-1a	subnet-07561f6d1e8b8cebc	10.0.1.0/24	-

Subnets without explicit associations (2)

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

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us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#EditRouteTableSubnetAssociations:RouteTableId=rtb-023f8d27565b9335e

Services

Search

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Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/4)

Filter subnet associations

	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	lab-subnet-public2	subnet-03fc8c8d970087cf6	10.0.2.0/24	-	Main (rtb-0dc5e637856ab2087)
<input checked="" type="checkbox"/>	lab-subnet-private1-us-east-1a	subnet-07561f6d1e8b8cebc	10.0.1.0/24	-	rtb-023f8d27565b9335e / lab-rtb-private1-us-east-1a
<input type="checkbox"/>	lab-subnet-public1-us-east-1a	subnet-07c6aa8ad1145711b	10.0.0.0/24	-	rtb-0cd797a34cd703b59 / lab-rtb-public1-us-east-1a
<input checked="" type="checkbox"/>	lab-subnet-private2	subnet-0eee5577860f0740a	10.0.3.0/24	-	Main (rtb-0dc5e637856ab2087)

Selected subnets

subnet-07561f6d1e8b8cebc / lab-subnet-private1-us-east-1a X subnet-0eee5577860f0740a / lab-subnet-private2 X

Cancel Save associations

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Workbench - Vocareum x Route tables | VPC Mana x

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#RouteTables:

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@puct.edu.pk @ 6374-2337-3047

VPC dashboard X  
EC2 Global View  
Filter by VPC:  
Select a 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

You have successfully updated subnet associations for rtb-023f8d27565b9335e / lab-rtb-private1-us-east-1a.

Route tables (1/6) Info

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associ...	Edge associations	Main
-	<a href="#">rtb-0fc78ac97962039ff</a>	-	-	Yes

rtb-023f8d27565b9335e / lab-rtb-private1-us-east-1a

Details Routes Subnet associations Edge associations Route propagation Tags

Details

Route table ID rtb-023f8d27565b9335e	Main No	Explicit subnet associations <a href="#">2 subnets</a>	Edge associations -
VPC vpc-0e66229bf6640647b   lab-vpc	Owner ID 637423373047		

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Workbench - Vocareum x Route tables | VPC Mana x

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#RouteTables:

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@puct.edu.pk @ 6374-2337-3047

VPC dashboard X  
EC2 Global View  
Filter by VPC:  
Select a 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

You have successfully updated subnet associations for rtb-0cd797a34cd703b59 / lab-rtb-public.

Route tables (1/6) Info

Find resources by attribute or tag

Name	Route table ID	Explicit subnet associ...	Edge associations	Main
-	<a href="#">rtb-0fc78ac97962039ff</a>	-	-	Yes

rtb-0cd797a34cd703b59 / lab-rtb-public

Details Routes Subnet associations Edge associations Route propagation Tags

Details

Route table ID rtb-0cd797a34cd703b59	Main No	Explicit subnet associations <a href="#">2 subnets</a>	Edge associations -
VPC vpc-0e66229bf6640647b   lab-vpc	Owner ID 637423373047		

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securityGroups | VPC Co

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#securityGroups:

aws

Services

Search

[Alt+S]

N. Virginia

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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

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Egress-only Internet gateways

Carrier gateways

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Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

Security Groups (4)

Find resources by attribute or tag

	Name	Security group ID	Security group name	VPC ID
<input type="checkbox"/>	-	sg-02563adedc610d018	default	vpc-0e66229bf6640647b
<input type="checkbox"/>	-	sg-068a20eddb018b4f6a	Ec2SecurityGroup	vpc-0b8157d22598caddb
<input type="checkbox"/>	-	sg-0fc46f63a55838a02	default	vpc-07017a1cc1b65d8e5

Create security group

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Workbench - Vocareum

CreateSecurityGroup | VPC

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#CreateSecurityGroup:

aws

Services

Search

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VPC

Security Groups

Create security group

Create security group

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name

MyWebServerGroup

Name cannot be edited after creation.

Description

Allows SSH access to developers

VPC

vpc-07017a1cc1b65d8e5

Inbound rules

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Workbench - Vocareum x CreateSecurityGroup | VPC console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateSecurityGroup:

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

vpc-0e66229bf6640647b (lab-vpc)

### Inbound rules

Type	Protocol	Port range	Source	Description - optional
HTTP	TCP	80	Any... 0.0.0.0/0	Permit web requests

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

### Outbound rules

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Workbench - Vocareum x SecurityGroup | VPC console

us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#SecurityGroup:groupId=sg-0f23722c82ae0c0f3

aws Services Search [Alt+S] N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

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
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services

Security group (sg-0f23722c82ae0c0f3 | Web Security Group) was created successfully

Details

VPC > Security Groups > sg-0f23722c82ae0c0f3 - Web Security Group

## sg-0f23722c82ae0c0f3 - Web Security Group

Actions

Details			
Security group name	Security group ID	Description	VPC ID
Web Security Group	sg-0f23722c82ae0c0f3	Enable HTTP access	vpc-0e66229bf6640647b
Owner	Inbound rules count	Outbound rules count	
637423373047	1 Permission entry	1 Permission entry	

Inbound rules Outbound rules Tags

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Workbench - Vocareum x SecurityGroup | VPC Con x +

us-east-1.console.aws.amazon.com/vpconsole/home?region=us-east-1#SecurityGroup:groupId=sg-0f23722c82ae0c0f3

aws Services ec2

VPC dashboard  
EC2 Global View  
Filter by VPC:  
Select a VPC

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Search results for 'ec2'

Services (13) See all 13 results ▶

Features (57)  
Resources New  
Documentation (34,457)  
Knowledge Articles (608)  
Marketplace (3,313)  
Blogs (2,127)  
Events (30)  
Tutorials (21)

EC2 ☆  
Virtual Servers in the Cloud

EC2 Image Builder ☆  
A managed service to automate build, customize and deploy OS images

Recycle Bin  
Protect resources from accidental deletion

Amazon Inspector ☆  
Continual vulnerability management at scale

Features See all 57 results ▶

Actions

e66229bf6640647b

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Workbench - Vocareum x Instances | EC2 | us-east-1 x +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running

aws Services Search [Alt+S]

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  
New  
Images  
AMIs  
AMI Catalog

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running Clear filters

Any state

1

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Bastion Host	i-09c179fc7a520c39b	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a

Select an instance

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Workbench - Vocareum x Launch an instance | EC2 x +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search [Alt+S]

N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

AMI from catalog Recents Quick Start

Amazon Machine Image (AMI)

al2023-ami-2023.3.20240205.2-kernel-6.1-x86\_64

ami-0e731c8a588258d0d

Verified provider Free tier eligible

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Catalog	Published	Architecture	Virtualization	Root device type	ENA Enabled
Quickstart AMIs	2024-02-06T17:41:03.000Z	x86_64	hvm	ebs	Yes

Summary

Number of Instances 1

Software Image (AMI)

Amazon Linux 2023 AMI

ami-0e731c8a588258d0d

Virtual server type (Instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in

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Workbench - Vocareum x Launch an instance | EC2 x +

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Services Search [Alt+S]

N. Virginia voclabs/user3046381=bitf20m528@pucit.edu.pk @ 6374-2337-3047

Allow tags in metadata Info

Select

User data - optional Info

Upload a file with your user data or enter it in the field.

Choose file

```
#!/bin/bash
# Install Apache Web Server and PHP
dnf install -y httpd wget php mariadb105-server
# Download Lab files
wget https://aws-tc-largeobjects.s3.us-west-2.amazonaws.com/CUR-TF-100-ACCLFO-2/2-lab2-vpc/s3/lab-app.zip
unzip lab-app.zip -d /var/www/html/
# Turn on web server
chkconfig httpd on
service httpd start
```

Software Image (AMI)

Amazon Linux 2023 AMI

ami-0e731c8a588258d0d

Virtual server type (Instance type)

t2.micro

Firewall (security group)

Web Security Group

Storage (volumes)

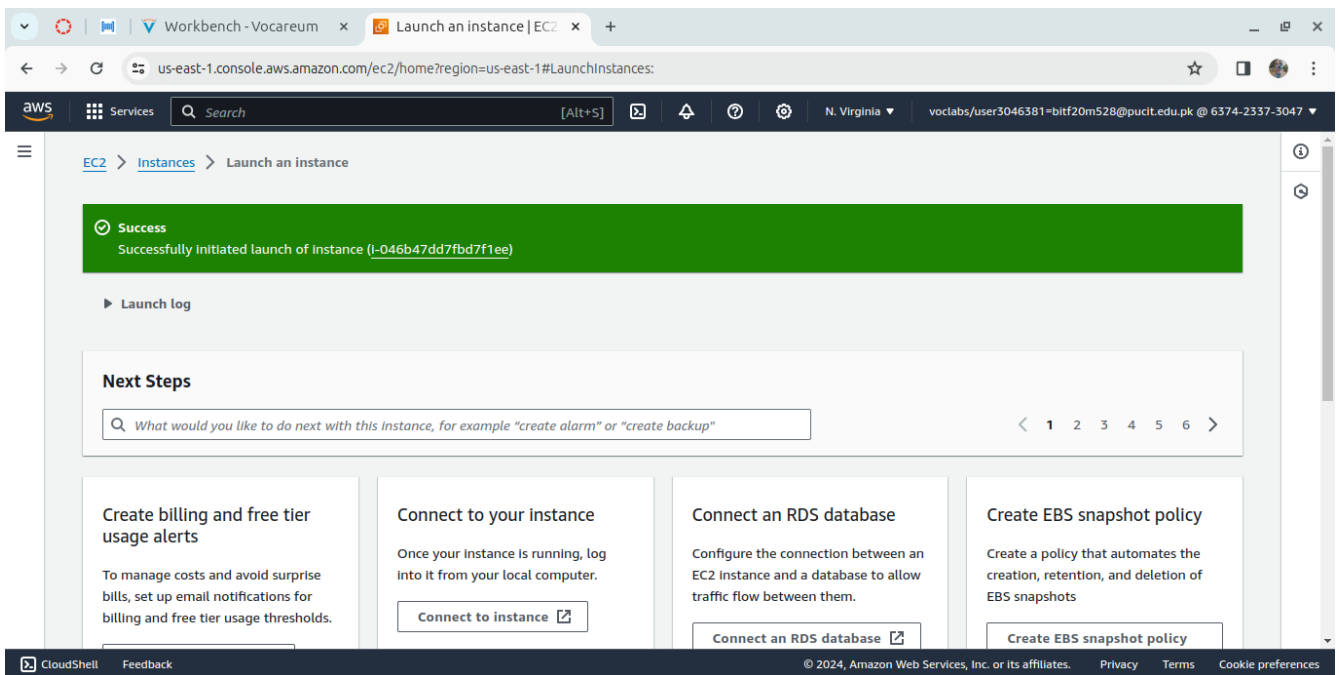
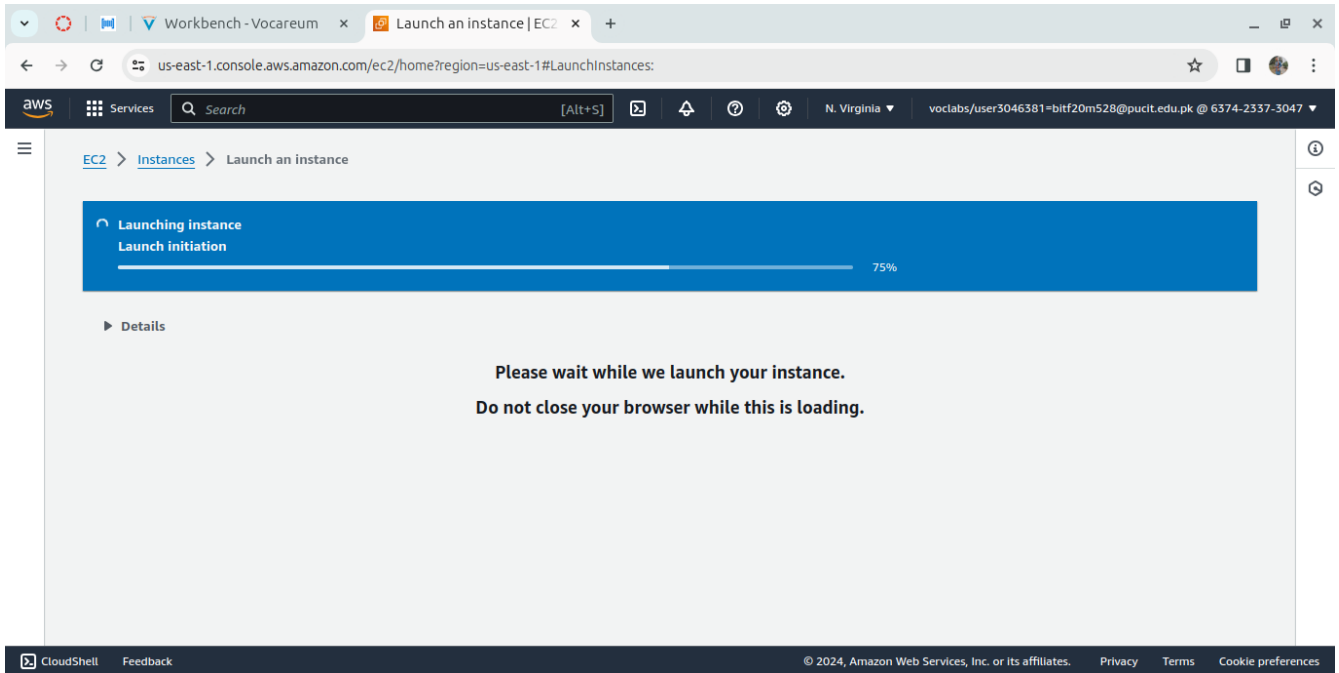
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of

Cancel Launch instance

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EC2 Dashboard

EC2 Global View

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Console-to-Code [Preview](#)

▼ Instances

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Capacity Reservations

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▼ Images

AMIs

AMI Catalog

Instances (1/2) [Info](#)

Find Instance by attribute or tag (case-sensitive)

Any state

☑

Web Server 1

I-046b47dd7fbd7f1ee

Running

t2.micro

2/2 checks passed

[View alarms](#)

us-east-1b

☐

Bastion Host

I-09c179fc7a520c39b

Running

t2.micro

2/2 checks passed

[View alarms](#)

us-east-1a

Instance: i-046b47dd7fbd7f1ee (Web Server 1)

CloudShell

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Workbench - Vocareum

Instance details | EC2 | us-east-1

Welcome to AWS Techni

Not secure 174.129.63.175

aws

Load Test

RDS

Meta-Data	Value
InstanceId	i-046b47dd7fbd7f1ee
Availability Zone	us-east-1b

Current CPU Load: 0%



Workbench - Vocareum x Instance details | EC2 | us x Welcome to AWS Techni x +

labs.vocareum.com/main/main.php?m=clabide&mode=s&asnid=2610314&stepid=2610315&hideNavBar=1

AWS

00:45 ▶ Start Lab ■ End Lab ⓘ AWS Details ⓘ Details

EN-US

Are you sure you want to submit?

Yes Cancel

49. When prompted, choose **Yes**.

After a couple of minutes, the grades panel appears and shows you how many points you earned for each task. If the results don't display after a couple of minutes, choose **Grades** at the top of these instructions.

💡 **Tip:** You can submit your work multiple times. After you change your work, choose **Submit** again. Your last submission is recorded for this lab.

50. To find detailed feedback about your work, choose **Submission Report**.

💡 **Tip:** For any checks where you did not receive full points, there are sometimes helpful details provided in the submission report.

## Lab complete