

Lab Assignment-3

ECSE304L: Cloud Computing

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Enroll no: E18CSE187

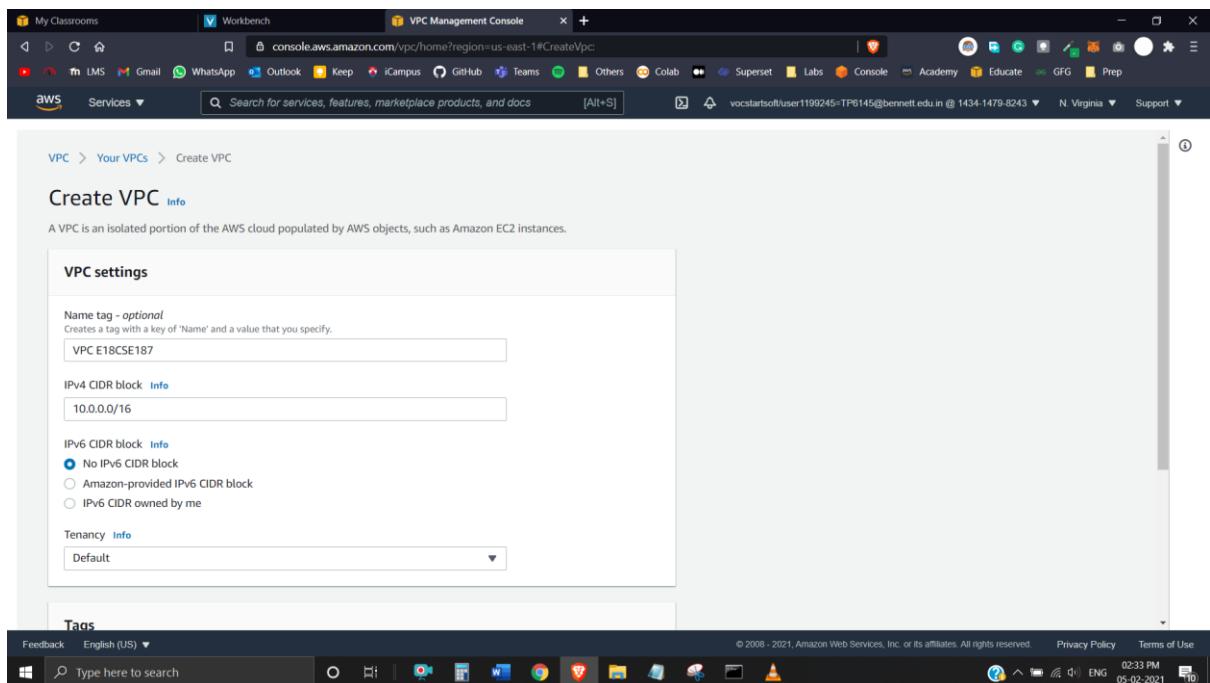
Batch: EB02

(**AWS Educate Login Name:** vocstartsoft/user1199245=TP6145@bennett.edu.in)

Lab Activities:

- **Task 1:** Create an AWS VPC in an Availability Zone at one region.
- **Task 2:** Create Internet Gateway and attached it to VPC.
- **Task 3:** Create one public Subnet and one private subnet.
- **Task 4:** Launch two different window EC2 instances in each created subnet
- **Task 5:** Then check the internet availability of the running EC2 instances.
- **Task 6:** The EC2 instance of public subnet should be reachable from the internet. Check the connection using CMD or any method which you know.
- **Task 7:** The EC2 instance of private subnet should not be reachable from the internet. Check the connection using CMD or any method which you know.
- **Task 8 (not covered in lab):** Both the launched EC2 instance should be communicated to each other. So, check the connection using CMD or any method which you know.
- **Task 9:** Take the snapshots of all performed tasks and create a doc/pdf of your enrolment number_lab03 and upload the file on LMS.

Implementation Screenshots (Step-by-Step): Task 1



My Classrooms Workbench VPC Management Console

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

Services Search for services, features, marketplace products, and docs [Alt+S] vocstartsoft/user1195245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia Support

IPv4 CIDR block: 10.0.0.0/16

IPv6 CIDR block: No IPv6 CIDR block

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: Name Value - optional: VPC E18CSE187 Remove

Add new tag

You can add 49 more tags.

Create VPC

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My Classrooms Workbench VPC Management Console

console.aws.amazon.com/vpc/home?region=us-east-1#VpcDetails?VpcId=vpc-014e86dc0ad991473

Services Search for services, features, marketplace products, and docs [Alt+S] vocstartsoft/user1195245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia Support

New VPC Experience Learn more

VPC Dashboard Filter by VPC: Select a VPC

Your VPCs

- Subnets
- Route Tables
- Internet Gateways
- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

VIRTUAL PRIVATE CLOUD

CIDRs Flow logs Tags

You successfully created vpc-014e86dc0ad991473 / VPC E18CSE187

VPC > Your VPCs > vpc-014e86dc0ad991473

Actions

Details

VPC ID	State	DNS resolution
vpc-014e86dc0ad991473	Available	Enabled
Tenancy	DHCP options set	Main network ACL
Default	dopt-6baaea11	acl-0848e800a52b1c84c
Default VPC	IPv4 CIDR	IPv6 CIDR (Network border group)
No	10.0.0.0/16	-
Owner ID	IPv6 pool	-
143414798243	-	-

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The screenshot shows the AWS VPC Management Console. On the left, a sidebar lists various network-related services: VPC Dashboard, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, Carrier Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, and Peering Connections. Under SECURITY, Network ACLs and Security Groups are listed. The main panel displays 'Your VPCs (2) Info' with a table:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR (Network border group)
-	vpc-1ef35563	Available	172.31.0.0/16	-
VPC E18CSE187	vpc-014e86dc0ad991473	Available	10.0.0.0/16	-

A message at the bottom says 'Select a VPC above'.

Task 2

The screenshot shows the 'Create internet gateway' wizard. The top navigation bar includes 'VPC > Internet gateways > Create internet gateway'. The main content area is titled 'Create internet gateway' with a 'Info' link. It states: '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.' Below this is a section for 'Internet gateway settings' with a 'Name tag' input field containing 'IGW E18CSE187'. A 'Tags - optional' section follows, showing a single tag 'Name: IGW E18CSE187'. At the bottom, there's a note: 'You can add 49 more tags.'

My Classrooms Workbench Internet gateways | VPC Manager

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

New VPC Experience Learn more

VPC Dashboard Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables

Internet Gateways

- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

SECURITY Network ACLs Security Groups

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Internet gateways (2) Info

Name	Internet gateway ID	State	VPC ID	Owner
IGW E18CSE187	igw-050fd3ed76a2b8ffb	Detached	-	143414798243
-	igw-65fcf61e	Attached	vpc-1ef35563	143414798243

Select an internet gateway above

Create internet gateway

Actions

①

The screenshot shows the AWS VPC Manager interface. On the left, there's a sidebar with various VPC-related options like Dashboard, Filter by VPC, and a list of gateways. The main area displays a table of 'Internet gateways (2)'. The first gateway, 'IGW E18CSE187', has an 'Internet gateway ID' of 'igw-050fd3ed76a2b8ffb' and is currently 'Detached'. The second gateway, with an ID of 'igw-65fcf61e', is 'Attached' to a VPC with ID 'vpc-1ef35563'. Both entries show the owner as '143414798243'. Below the table, a note says 'Select an internet gateway above' with three small icons. At the bottom right of the main area is a large orange button labeled 'Create internet gateway'.

My Classrooms Workbench Attach Internet gateway | VPC M...

console.aws.amazon.com/vpc/home?region=us-east-1#AttachInternetGateway/internetGatewayId=igw-050fd3ed76a... | 🔒

VPC > Internet gateways > Attach to VPC (igw-050fd3ed76a2b8ffb)

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Attach to VPC (igw-050fd3ed76a2b8ffb) 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.

vpc-014e86dc0ad991473

AWS Command Line Interface command

Cancel Attach internet gateway

①

The screenshot shows a modal dialog box titled 'Attach to VPC (igw-050fd3ed76a2b8ffb)'. The first section is labeled 'VPC' with the sub-instruction 'Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.'. Below this is a section titled 'Available VPCs' with the sub-instruction 'Attach the internet gateway to this VPC.' A dropdown menu is open, showing the VPC ID 'vpc-014e86dc0ad991473'. At the bottom of the dialog are two buttons: 'Cancel' and a large orange 'Attach internet gateway' button. The status bar at the bottom of the screen shows the date and time as '05-02-2021 02:39 PM'.

The screenshot shows the AWS VPC Management Console with the 'Internet Gateways' section selected. A success message at the top states: "Internet gateway igw-050fd5ed76a2b8fb successfully attached to vpc-014e86dc0ad991473". The main table displays two internet gateways:

Name	Internet gateway ID	State	VPC ID	Owner
IGW E18CSE187	igw-050fd5ed76a2b8fb	Attached	vpc-014e86dc0ad991473 VPC E18CS...	143414798243
-	igw-65fcf61e	Attached	vpc-1ef35563	143414798243

A message below the table says "Select an internet gateway above". The left sidebar includes sections for VPC Dashboard, Filter by VPC, Internet Gateways (selected), and SECURITY.

Task 3

The screenshot shows the AWS VPC Management Console with the 'Create subnet' page open. The URL in the address bar is `console.aws.amazon.com/vpc/home?region=us-east-1#CreateSubnet`. The page has the following sections:

- VPC**: Shows the VPC ID `vpc-014e86dc0ad991473 (VPC E18CSE187)`.
- Associated VPC CIDRs**: Shows the IPv4 CIDR `10.0.0.0/16`.
- Subnet settings**: A note says "Specify the CIDR blocks and Availability Zone for the subnet."
- Subnet 1 of 1**:
 - Subnet name**: A text input field containing `Public Subnet E18CSE187`.
 - A note below says "The name can be up to 256 characters long."

The bottom of the screen shows the Windows taskbar with various pinned icons like File Explorer, Edge, and File History.

My Classrooms Workbench VPC Management Console

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

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

vocstartsoft/user1190245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia Support

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
Public Subnet E18CSE187
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**
Q 10.0.1.0/24

Tags - optional
Key Value - optional
Q Name Q Public Subnet E18CSE187 X Remove
Add new tag
You can add 49 more tags.
Remove
Add new subnet

Feedback English (US) ▾ Cancel Create subnet

Type here to search

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My Classrooms Workbench Subnets | VPC Management Console

console.aws.amazon.com/vpc/home?region=us-east-1#Subnets:SubnetId=subnet-0994c46f39f58989b

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

vocstartsoft/user1190245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia Support

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VPC Dashboard
Filter by VPC:
Q Select a VPC

Subnets
Route Tables
Internet Gateways
Egress Only Internet Gateways
Carrier Gateways
DHCP Options Sets
Elastic IPs
Managed Prefix Lists
Endpoints
Endpoint Services
NAT Gateways
Peering Connections

SECURITY
Network ACLs
Security Groups

You have successfully created 1 subnet: subnet-0994c46f39f58989b

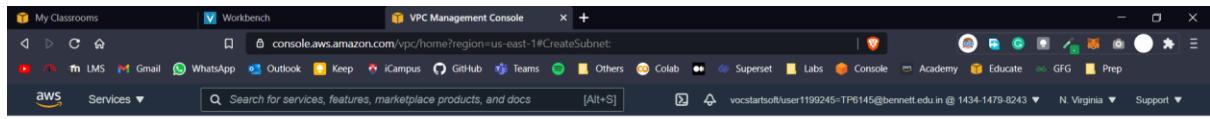
Subnets (1) Info						
C Actions ▾ Create subnet						
Filter subnets Clear filters						
<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
<input type="checkbox"/>	Public Subnet E18C...	subnet-0994c46f39f58989b	Available	vpc-014e86dc0ad991473 VP...	10.0.1.0/24	-

Select a subnet

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VPC > Subnets > Create subnet

Create subnet Info

VPC

VPC ID
Create subnets in this VPC.

vpc-014e86dc0ad991473 (VPC E18CSE187)

Associated VPC CIDRs

IPv4 CIDRs

10.0.0.0/16

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

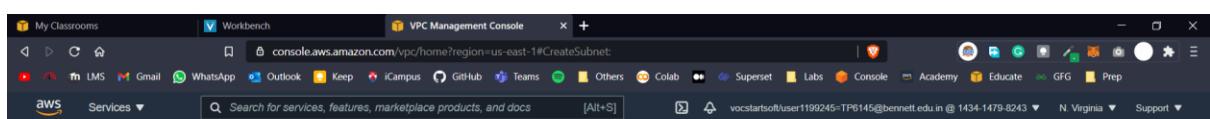
Subnet name

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

Private Subnet E18CSE187

The name can be up to 256 characters long.

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Subnet 1 of 1

Subnet name

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

Private Subnet E18CSE187

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

Q 10.0.2.0/24 X

▼ Tags - optional

Key Value - optional

Q Name Q Private Subnet E18CSE187 X Remove

Add new tag

You can add 49 more tags.

Remove

Add new subnet

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My Classrooms Workbench VPC Management Console

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

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VPC Dashboard Filter by VPC: Select a VPC

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

Subnets (8) Info

You have successfully created 1 subnet: subnet-09f3301306176ee38

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
-	subnet-7ceb7c23	Available	vpc-1ef35563	172.31.32.0/20	-
-	subnet-75ce4413	Available	vpc-1ef35563	172.31.0.0/20	-
-	subnet-94410d9a	Available	vpc-1ef35563	172.31.64.0/20	-
-	subnet-b069b781	Available	vpc-1ef35563	172.31.48.0/20	-
-	subnet-b04913fd	Available	vpc-1ef35563	172.31.16.0/20	-
Public Subnet E18C...	subnet-0994c46f39f58989b	Available	vpc-014e86dc0ad991473 VP...	10.0.1.0/24	-
Private Subnet E18...	subnet-09f3301306176ee38	Available	vpc-014e86dc0ad991473 VP...	10.0.2.0/24	-
-	subnet-2a5ecf0b	Available	vpc-1ef35563	172.31.80.0/20	-

Select a subnet

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My Classrooms Workbench Create route table | VPC Manager

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

Route Tables > Create route table

Create route table

A route table specifies how packets are forwarded between the subnets within your VPC, the Internet, and your VPN connection.

Name tag: Private RT E18CSE187

VPC*: vpc-014e86dc0ad991473

Key (128 characters maximum) Value (256 characters maximum)

This resource currently has no tags

Add Tag 50 remaining (Up to 50 tags maximum)

* Required Cancel Create

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Screenshot of the AWS VPC Management console showing the Route Tables page. The sidebar shows 'Route Tables' selected. The main table lists three route tables:

Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
rtb-0b425d1f1fe959f75	-	-	-	Yes	vpc-014e86dc0ad991473 ...	143414798243
Private RT ...	rtb-096ce42e1efdfacde	-	-	No	vpc-014e86dc0ad991473 ...	143414798243
	rtb-2349645d	-	-	Yes	vpc-1ef35563	143414798243

Screenshot of the 'Create route table' wizard. Step 1: Set Route Table Properties.

Name tag: Public RT E18CSE18

VPC*: vpc-014e86dc0ad991473

Key (128 characters maximum) Value (256 characters maximum)

This resource currently has no tags

Add Tag 50 remaining (Up to 50 tags maximum)

* Required Cancel Create



Screenshot of the AWS VPC Management console showing the Route Tables page.

The left sidebar shows the navigation menu under "Route Tables".

The main content area displays a table of route tables:

Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
rtb-0b425d1f1fe959f75	-	-	-	Yes	vpc-014e86dc0ad991473...	143414798243
Private RT ...	rtb-096ce42e1eef1acde	-	-	No	vpc-014e86dc0ad991473...	143414798243
Public RT E...	rtb-0988b0a7c475a4d4c	-	-	No	vpc-014e86dc0ad991473...	143414798243
	rtb-2349645d	-	-	Yes	vpc-1ef35563	143414798243

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Screenshot of the AWS VPC Management console showing the Route Tables page, with a specific route table selected.

The left sidebar shows the navigation menu under "Route Tables".

The main content area displays a table of route tables, with the "Public RT E..." route table selected (highlighted in blue).

Below the table, the "Routes" tab is selected in the "Route Table: rtb-0988b0a7c475a4d4c" section.

The "Edit routes" section shows one route entry:

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No

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Route Tables > Edit routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0	igw-050fd3ed76a2b8fb	active	No

Add route

* Required

Cancel Save routes

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New VPC Experience [Learn more](#)

VPC Dashboard

Filter by VPC: [Select a VPC](#)

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables [Edit routes](#)

Internet Gateways

Egress Only Internet Gateways

Carrier Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

SECURITY

Network ACLs

Security Groups

Route Table ID: rtb-0b425d1fde959f75

Explicit subnet association: -

Main: Yes

VPC ID: vpc-014e86dc0ad991473...

Owner: 143414798243

Route Table ID: rtb-096ce42e1eeefdacde

Explicit subnet association: -

Main: No

VPC ID: vpc-014e86dc0ad991473...

Owner: 143414798243

Route Table ID: rtb-0988b0a7c475a4d4c

Explicit subnet association: -

Main: No

VPC ID: vpc-014e86dc0ad991473...

Owner: 143414798243

Route Table ID: rtb-2349645d

Explicit subnet association: -

Main: Yes

VPC ID: vpc-1ef35563

Owner: 143414798243

Route Table: rtb-0988b0a7c475a4d4c

Summary Routes Subnet Associations Edge Associations Route Propagation Tags

Edit routes

View All routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0	igw-050fd3ed76a2b8fb	active	No

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Route Tables > Edit subnet associations

Route table rtb-0988b0a7c475a4d4c (Public RT E18CSE187)

Associated subnets subnet-0994c46f39f58989b

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-0994c46f39f58989b Public Sub...	10.0.1.0/24	-	Main
subnet-09f3301306176ee38 Private Su...	10.0.2.0/24	-	Main

* Required

Cancel Save

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Route Tables | VPC Management

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VIRTUAL PRIVATE CLOUD Your VPCs Subnets

Route Tables

- Internet Gateways
- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

SECURITY Network ACLs Security Groups

Route Table: rtb-0988b0a7c475a4d4c

Summary Routes Subnet Associations Edge Associations Route Propagation Tags

Edit subnet associations

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-0994c46f39f58989b...	10.0.1.0/24	-

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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My Classrooms Workbench Route Tables | VPC Management

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

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VPC Dashboard Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs Subnets

Route Tables

- Internet Gateways
- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

SECURITY

- Network ACLs
- Security Groups

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1 to 4 of 4

Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
rtb-0b425d1f1fe959f75	-	-	-	Yes	vpc-014e86dc0ad991473 ...	143414798243
Private RT ...	rtb-096ce42e1eefdacde	-	-	No	vpc-014e86dc0ad991473 ...	143414798243
Public RT E...	rtb-0988b0a7c475a4d4c	subnet-0994c46f39f58989b	-	No	vpc-014e86dc0ad991473 ...	143414798243
	rtb-2349645d	-	-	Yes	vpc-1ef35563	143414798243

Route Table: rtb-096ce42e1eefdacde

Summary Routes Subnet Associations Edge Associations Route Propagation Tags

Edit routes View All routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No

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My Classrooms Workbench Edit subnet associations | VPC Management

console.aws.amazon.com/vpc/home?region=us-east-1#EditRouteTableSubnetAssociations:routeTableId=rtb-096ce42e1eefdacde

Route Tables > Edit subnet associations

Edit subnet associations

Route table rtb-096ce42e1eefdacde (Private RT E18CSE187)

Associated subnets subnet-09f3301306176ee38

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-0994c46f39f58989b Public Sub...	10.0.1.0/24	-	rtb-0988b0a7c475a4d4c
subnet-09f3301306176ee38 Private Su...	10.0.2.0/24	-	Main

* Required Cancel Save

Feedback English (US) Type here to search

1 to 2 of 2

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My Classrooms Workbench Route Tables | VPC Management

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

New VPC Experience Learn more

VPC Dashboard Filter by VPC: Select a VPC

Route Tables

- Internet Gateways
- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

SECURITY

- Network ACLs
- Security Groups

Create route table Actions

Filter by tags and attributes or search by keyword

Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
rtb-0b425d11fe959f75		-	-	Yes	vpc-014e86dc0ad991473 ...	143414798243
Private RT ...	rtb-096ce42e1eefda9de	subnet-09f3301306176ee38	-	No	vpc-014e86dc0ad991473 ...	143414798243
Public RT E...	rtb-0988b0a7c475a4d4c	subnet-0994c46f39f58989b	-	No	vpc-014e86dc0ad991473 ...	143414798243
	rtb-2349645d	-	-	Yes	vpc-1ef35563	143414798243

Route Table: rtb-096ce42e1eefda9de

Summary Routes Subnet Associations Edge Associations Route Propagation Tags

Edit subnet associations

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-09f3301306176ee...	10.0.2.0/24	-

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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My Classrooms Workbench VPC Management Console

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

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VPC Dashboard Filter by VPC: Select a VPC

Route Tables

- Internet Gateways
- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

SECURITY

- Network ACLs
- Security Groups

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

Create security group

Security Groups (1/2) Info

Filter security groups

Name	Security group ID	Security group name	VPC ID	Description	Owner
✓ VPC SG E18CSE187	sg-00b5e3e91cff48a83	default	vpc-014e86dc0ad991473	default VPC security gr...	143414798243
✗ -	sg-f72047ff	default	vpc-1ef35563	default VPC security gr...	143414798243

sg-00b5e3e91cff48a83 - default

Details Inbound rules Outbound rules Tags

Details

Security group name	Security group ID	Description	VPC ID
default	sg-00b5e3e91cff48a83	default VPC security group	vpc-014e86dc0ad991473
Owner	Inbound rules count	Outbound rules count	
143414798243	1 Permission entry	1 Permission entry	

Feedback English (US) Type here to search © 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use 03:01 PM 05-02-2021

The screenshot shows a Microsoft Edge browser window with the following details:

- Address Bar:** google.com/search?q=my+ip+address&oq=my+ip+address&qs=chrome.0.69159.3452|0|1&sourcet=chrome...
The search query is "my ip address".
- Search Results:** The main content area displays the result for "What's my IP", which is 117.98.147.45. It also includes a link to "Learn more about IP addresses".
- Bottom Navigation:** A sidebar on the left lists various services: My Classrooms, Workbench, VPC Management Console, my ip address - Google Search, LMS, Gmail, WhatsApp, Outlook, Keep, iCampus, GitHub, Teams, Others, Colab, Superset, Labs, Console, Academy, Educate, FGF, and Prep.
- Bottom Status Bar:** Shows the date (05-02-2021), time (03:03 PM), battery level, signal strength, and other system icons.

The screenshot shows the AWS VPC Management Console with the URL `console.aws.amazon.com/vpc/home?region=us-east-1#ModifyInboundSecurityGroupRulessecurityGroupId=sg-00b5e3e91cff48a83`. The page title is "Edit inbound rules". The left navigation bar includes "VPC", "Security Groups", and the selected "sg-00b5e3e91cff48a83 - default". The main content area is titled "Edit inbound rules" with a "Info" link. A sub-header "Inbound rules" also has an "Info" link. Below this, there are two rows of inbound rule configuration. Each row has columns for "Type", "Protocol", "Port range", "Source", and "Description - optional". The first row's "Source" dropdown is set to "Custom" and contains the value "sg-00b5e3e91cff48a83", which is highlighted with a blue box. The second row's "Source" dropdown is set to "My IP" and contains the value "117.98.147.45/32", also highlighted with a blue box. Both rows have "Delete" buttons at the end. At the bottom left is an "Add rule" button, and at the bottom center is a note: "⚠ NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created." The bottom navigation bar includes links for "Feedback", "English (US)", "Privacy Policy", "Terms of Use", and the date "03/02/2021".

My Classrooms Workbench VPC Management Console

console.aws.amazon.com/vpc/home?region=us-east-1#SecurityGroups:group-id=sg-00b5e3e91cff48a83

New VPC Experience Learn more

VPC Dashboard Filter by VPC: Select a VPC

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

SECURITY Network ACLs Security Groups

Feedback English (US) Type here to search

Inbound security group rules successfully modified on security group (sg-00b5e3e91cff48a83 | default)

Details

Security Groups (1/1) Info

Filter security groups Security group ID: sg-00b5e3e91cff48a83 Clear filters

Name	Security group ID	Security group name	VPC ID	Description	Owner
VPC SG E18CSE187	sg-00b5e3e91cff48a83	default	vpc-014e86dc0ad991473	default VPC security gr...	14341473

Details Inbound rules Outbound rules Tags

Inbound rules Edit inbound rules

Type	Protocol	Port range	Source	Description - optional
All traffic	All	All	117.98.147.45/32	-
All traffic	All	All	sg-00b5e3e91cff48a83 (default)	-

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This screenshot shows the AWS VPC Management Console. A green banner at the top indicates that inbound security group rules have been successfully modified. The main interface displays a table of security groups, with one row selected. Below the table, there are tabs for 'Inbound rules' and 'Outbound rules'. The 'Inbound rules' tab is active, showing two entries. The bottom of the screen includes a taskbar with various icons and system status information.

My Classrooms Workbench Network ACLs | VPC Management

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

New VPC Experience Learn more

VPC Dashboard Filter by VPC: Select a VPC

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

SECURITY Network ACLs Security Groups

Feedback English (US) Type here to search

Network ACLs (1/2) Info

Filter network ACLs

Name	Network ACL ID	Associated with	Default	VPC ID
acl-cd838db0	acl-0848e800a32b1c84c	6 Subnets	Yes	vpc-1ef35563
VPC NACL E18CSE1...	acl-0848e800a32b1c84c	2 Subnets	Yes	vpc-014e86dc0ad991473 / VPC E18

Details Inbound rules Outbound rules Subnet associations Tags

Details

Network ACL ID acl-0848e800a32b1c84c	Associated with 2 Subnets	Default Yes	VPC ID vpc-014e86dc0ad991473 / VPC E18CSE187
Owner 143414798243			

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This screenshot shows the AWS VPC Management Console. It displays a table of network ACLs, with one row selected. Below the table, there are tabs for 'Inbound rules', 'Outbound rules', and 'Subnet associations'. The 'Details' tab is active, showing the network ACL ID, associated subnets, default status, and VPC ID. The bottom of the screen includes a taskbar with various icons and system status information.

My Classrooms Workbench VPC Management Console my ip address - Google Search

console.aws.amazon.com/vpc/home?region=us-east-1>EditInboundRulesnetworkAclId=acl-0848e800a32b1c84c

aws Services Search for services, features, marketplace products, and docs [Alt+S] vocstartsoft/user1199245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia Support ⓘ

VPC > Network ACLs > acl-0848e800a32b1c84c / VPC NACL E18CSE187 > Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the VPC.

Rule number <small>Info</small>	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Allow/Deny <small>Info</small>
100	All traffic	All	All	117.98.147.45/32	Allow
*	All traffic	All	All	0.0.0.0/0	Deny

[Add new rule](#) [Sort by rule number](#)

[Cancel](#) [Preview changes](#) [Save changes](#)

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My Classrooms Workbench Network ACLs | VPC Management my ip address - Google Search

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

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New VPC Experience Learn more

VPC Dashboard Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

- Your VPCs
- Subnets
- Route Tables
- Internet Gateways
- Egress Only Internet Gateways
- Carrier Gateways
- DHCP Options Sets
- Elastic IPs
- Managed Prefix Lists
- Endpoints
- Endpoint Services
- NAT Gateways
- Peering Connections

SECURITY

- Network ACLs**
- Security Groups

You have successfully updated inbound rules for acl-0848e800a32b1c84c / VPC NACL E18CSE187

Network ACLs (1/2) Info

Name	Network ACL ID	Associated with	Default	VPC ID
acl-cd838db0	6 Subnets	Yes	vpc-1ef35563	
VPC NACL E18CSE1...	acl-0848e800a32b1c84c	2 Subnets	Yes	vpc-014e86dc0ad991473 / VPC E18

Inbound rules (2)

Rule number	Type	Protocol	Port range	Source	Allow/Deny
100	All traffic	All	All	117.98.147.45/32	Allow
*	All traffic	All	All	0.0.0.0/0	Deny

[Edit inbound rules](#)

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

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03:07 PM 05-02-2021

Task 4

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

AMI Name	Description	Select Button	Architecture
Microsoft Windows Server 2019 Base - ami-0f5781c548ea1265a	Microsoft Windows 2019 Datacenter edition [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select	64-bit (x86)
Microsoft Windows Server 2019 Base with Containers - ami-07df9d1e2a40d2856	Microsoft Windows 2019 Datacenter edition with Containers. [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select	64-bit (x86)
Microsoft Windows Server 2019 with SQL Server 2017 Standard - ami-08247a35d50a7771a	Microsoft Windows 2019 Datacenter edition, Microsoft SQL Server 2017 Standard. [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select	64-bit (x86)



Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
t2	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes



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console.aws.amazon.com/ec2/v2/home?region=us-east-1#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-014e86dc0ad991473 | VPC E18CSE187 Create new VPC

Subnet subnet-0994c46f39f58969b | Public Subnet E18CSE187 Create new subnet
251 IP Addresses available

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

CPU options Specify CPU options

Shutdown behavior Stop

Cancel Previous Review and Launch Next: Add Storage

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#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 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MiB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0213c79a1ead1f22d	30	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.

Cancel Previous Review and Launch Next: Add Tags

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Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces
Name	Public E18CSE187			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group
 Select an existing security group

Security Group ID	Name	Description	Actions
sg-00b5e3e91cff48a83	default	default VPC security group	Copy to new

My Classrooms Workbench Launch instance wizard | EC2 Mai... my ip address - Google Search

console.aws.amazon.com/ec2/v2/home?region=us-east-1#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 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Microsoft Windows Server 2019 Base - ami-00b5e3e91cf48a83

Free her eligible Microsoft Windows 2019 Datacenter edition. [English] Root Device Type: ebs Virtualization type: hvm

If you plan to use this AMI for an application that benefits from Multi-AZ support, choose a different AMI.

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1

Security Groups

Security Group ID: sg-00b5e3e91cf48a83

All selected security groups inbound rules

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Create a new key pair Key pair name: E18CSE187Lab3CC

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.

Cancel Launch Instances

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:

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Scheduled Instances

Capacity Reservations

Images AMIs

Elastic Block Store Volumes

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Instances (1/1) Info

Filter instances

Actions ▾ Launch instances ▾

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Public E18CSE187	i-0a10c7fad2694b81b	Running	t2.micro	-	No alarms +	us-east-1b	-

Instance: i-0a10c7fad2694b81b (Public E18CSE187)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID: i-0a10c7fad2694b81b (Public E18CSE187)	Public IPv4 address: 54.146.243.98 open address	Private IPv4 addresses: 10.0.1.103
Instance state: Running	Public IPv4 DNS: -	Private IPv4 DNS: ip-10-0-1-103.ec2.internal
Instance type: t2.micro	Elastic IP addresses: -	VPC ID: vpc-014e86dc0ad991473 (VPC E18CSE187)
AWS Compute Optimizer finding:	IAM Role:	Subnet ID:

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Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start (19)

Category	AMI Name	Description	Select
My AMIs (0)	Microsoft Windows Server 2019 Base - ami-0f5761c546ea1265a	Microsoft Windows 2019 Datacenter edition [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select
AWS Marketplace (851)	Microsoft Windows Server 2019 Base with Containers - ami-07df9d1e2a40d2856	Microsoft Windows 2019 Datacenter edition with Containers. [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select
Community AMIs (10589)	Microsoft Windows Server 2019 with SQL Server 2017 Standard - ami-08247a35d50a7771a	Microsoft Windows 2019 Datacenter edition, Microsoft SQL Server 2017 Standard. [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select
Free tier only			

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Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.

Filter by: All instance families Current generation Show/Hide Columns

Currently selected: t2.micro (~ ECUs, 1 vCPUs, 2.5 GHz, ~ 1 GiB memory, EBS only)

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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

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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-014e86dc0ad991473 | VPC E18CSE187 Create new VPC

Subnet: subnet-09f3301306176ee38 | Private Subnet E18CS Create new subnet
251 IP Addresses available

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

CPU options: Specify CPU options

Shutdown behavior: Stop

Cancel Previous Review and Launch Next: Add Storage

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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 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MiB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0213c79a1ead1f22d	30	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.

Cancel Previous Review and Launch Next: Add Tags

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Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces
Name	Private E18CSE187			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group
 Select an existing security group

Security Group ID	Name	Description	Actions
sg-00b5e3e91cff48a83	default	default VPC security group	Copy to new

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#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 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Microsoft Windows Server 2019 Base - ami-00b5e3e91cff48a83

Free her eligible Microsoft Windows 2019 Datacenter edition. [English] Root Device Type: ebs Virtualization type: hvm

If you plan to use this AMI for an application that benefits from Multi-AZ support, choose a different AMI.

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1

Security Groups

Security Group ID: sg-00b5e3e91cff48a83

All selected security groups inbound rules

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Choose an existing key pair Select a key pair E18CSE187CCLab3

I acknowledge that I have access to the selected private key file (E18CSE187CCLab3.pem), and that without this file, I won't be able to log into my instance.

Cancel Launch Instances

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My Classrooms Workbench Instances | EC2 Management Con... my ip address - Google Search

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:

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vocstartsoft/user1199245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia ▾ Support ▾

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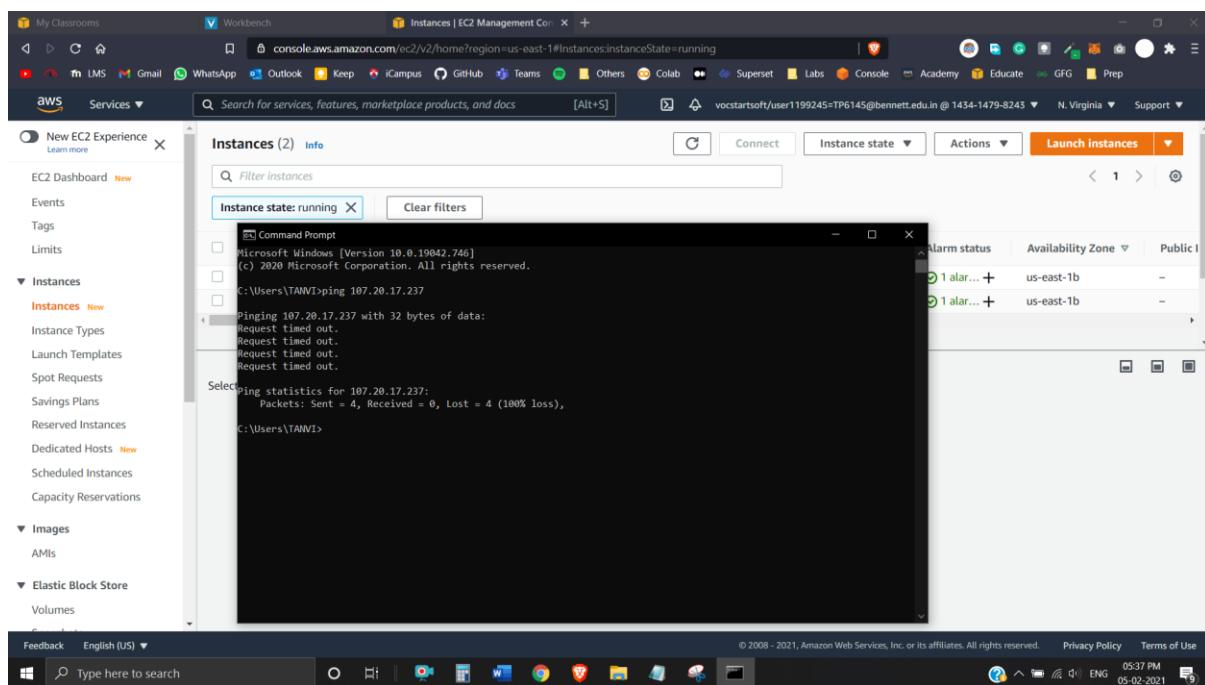
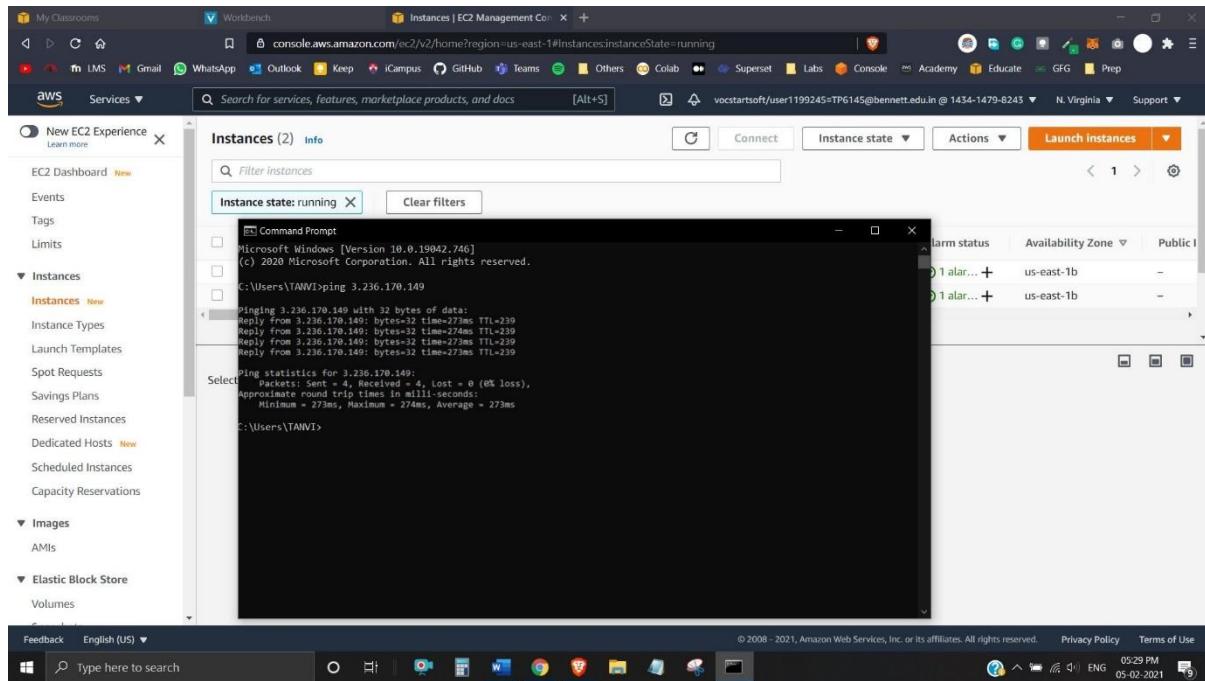
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Public E18CSE187	i-0a10c7fad2694b81b	Running	t2.micro	2/2 checks ...	1 alarm... +	us-east-1b	-
Private E18CSE187	i-044248478f175e4c5	Pending	t2.micro	-	No alarms +	us-east-1b	-

Select an instance above

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Task 5



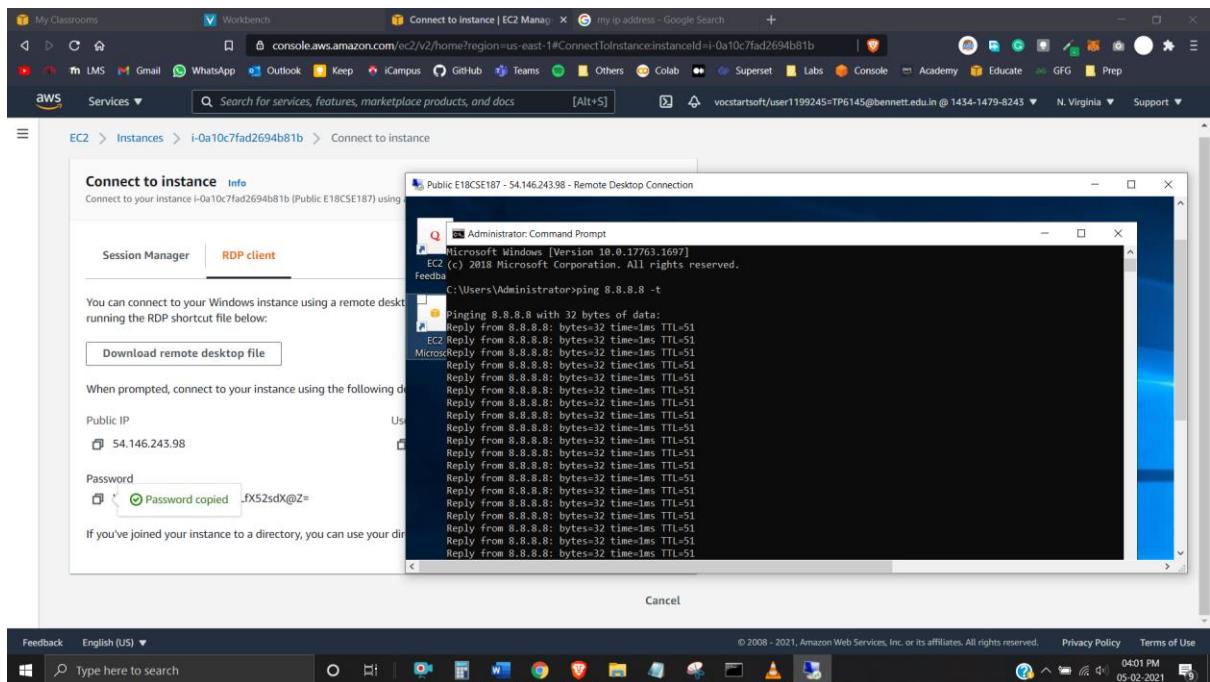
Task 6

The screenshot shows the AWS Workbench interface with the 'Connect to instance' page for an EC2 instance. The instance ID is i-0a10c7fad2694b81b (Public E18CSE187). The 'RDP client' tab is selected. Connection details are provided:

- Public IP: 54.146.243.98
- User name: Administrator
- Password: %A.vBJTt@6EFo9*JOEhLfx52sdX@Z= (Copied)

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

The screenshot also shows a Windows desktop environment with icons for Recycle Bin, EC2 Feedback, and EC2 Microsoft...



Task 7

