

Lab Assignment-4

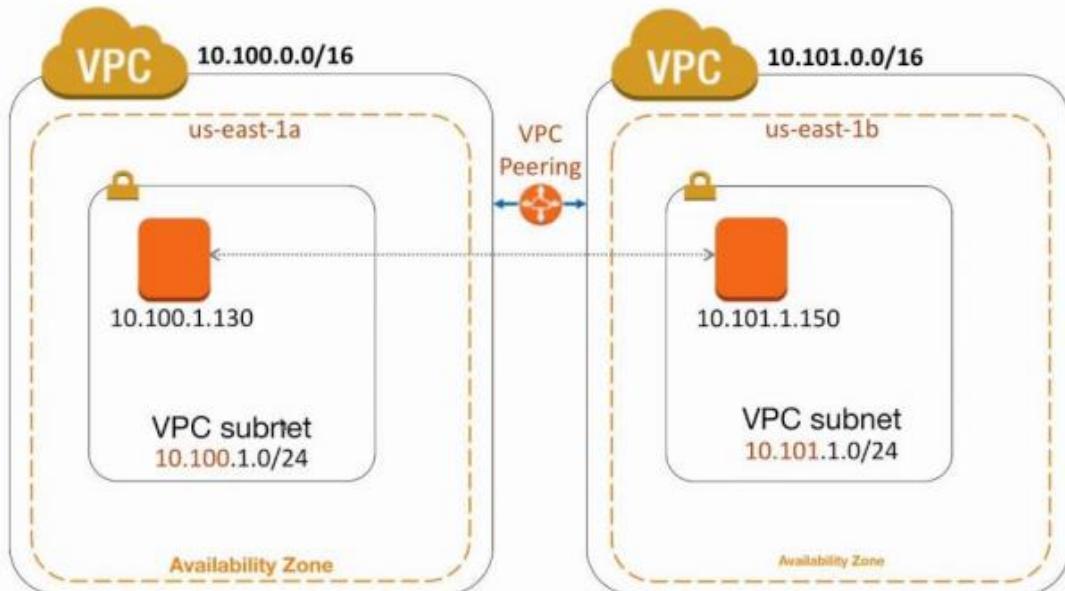
ECSE304L: Cloud Computing

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Batch: EB02

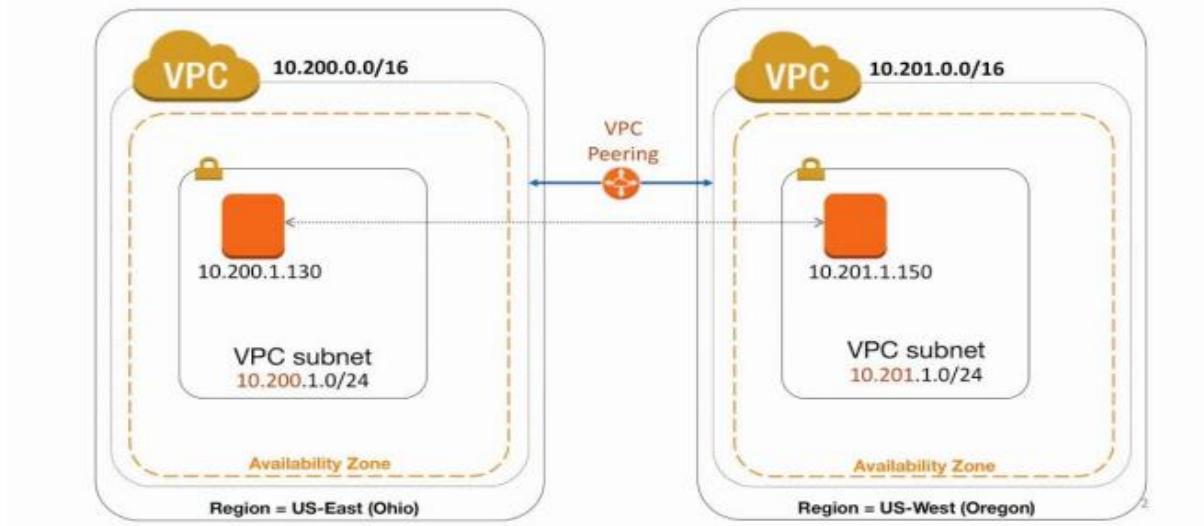
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Lab Scenario 1: Set up VPC Peering b/w VPCs in 2 Availability Zones in 1 Region.



Lab Scenario 2: Set up VPC Peering b/w VPCs in Different Regions.



Implementation Screenshots (Step-by-Step):

Lab Scenario 1

The screenshot shows the 'Create VPC' wizard in the AWS VPC Management Console. The 'VPC settings' section is visible, containing fields for a name tag ('VPC-01 E18CSE187'), IPv4 CIDR block ('10.100.0.0/16'), and IPv6 CIDR block ('No IPv6 CIDR block'). The 'Tenancy' dropdown is set to 'Default'. The 'Tags' section is also present.

VPC settings

- Name tag - optional: VPC-01 E18CSE187
- IPv4 CIDR block: 10.100.0.0/16
- IPv6 CIDR block: No IPv6 CIDR block
- Tenancy: Default

Tags

Feedback English (US) ▾ 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/user1199245@TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia ▾ Support ⓘ © 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use 09:18 PM 05-02-2021 ⓘ

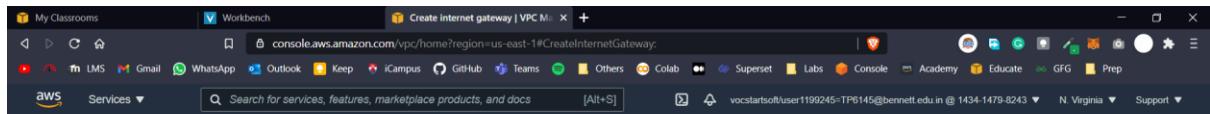
The screenshot shows the 'Your VPCs' page after creating a new VPC. A green success message says 'You successfully created vpc-080e41cf23e6e139 / VPC-01 E18CSE187'. The 'Details' tab is selected, displaying information such as VPC ID (vpc-080e41cf23e6e139), State (Available), and DNS hostnames (Disabled).

Details

VPC ID	State	DNS hostnames	DNS resolution
vpc-080e41cf23e6e139	Available	Disabled	Enabled
Tenancy	DHCP options set	Main route table	Main network ACL
Default	dopt-6baaea11	rtb-0035b1d810873bcf5	adl-0104b64a3a8f52079
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR (Network border group)
No	10.100.0.0/16	-	-
Owner ID			
143414798243			

CIDRs | Flow logs | Tags

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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.

VPC 01 IGW

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
Q Name	Q VPC 01 IGW

Add new tag

You can add 49 more tags.



VPC > Internet gateways > igw-0c0af78b840bf3195

igw-0c0af78b840bf3195 / VPC 01 IGW

Actions ▾

Details Info

Internet gateway ID	State	VPC ID	Owner
igw-0c0af78b840bf3195	Detached	-	143414798243

Tags

Key	Value
Name	VPC 01 IGW



The screenshot shows the AWS VPC Internet Gateways page. The left sidebar is expanded, showing options like New VPC Experience, VPC Dashboard, Filter by VPC, Selected a VPC, VIRTUAL PRIVATE CLOUD, Your VPCs, Subnets, Route Tables, Internet Gateways (selected), Egress Only Internet Gateways, Carrier Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, and SECURITY. The main content area displays a table titled "Internet gateways (2)" with columns: Name, Internet gateway ID, State, VPC ID, and Owner. It lists two entries: "VPC 01 IGW" with ID "igw-0c0af78b840bf3195" in a Detached state, and another entry with ID "igw-65fcf61e" in an Attached state to "vpc-1ef35563". A message at the bottom says "Select an internet gateway above".

Name	Internet gateway ID	State	VPC ID	Owner
VPC 01 IGW	igw-0c0af78b840bf3195	Detached	-	143414798243
-	igw-65fcf61e	Attached	vpc-1ef35563	143414798243

The screenshot shows the AWS Management Console with the URL `console.aws.amazon.com/vpc/home?region=us-east-1#AttachInternetGateway:internetGatewayId=igw-0c0af78b840bf3195`. The title bar says "Attach internet gateway | VPC". The navigation path is "VPC > Internet gateways > Attach to VPC (igw-0c0af78b840bf3195)". The main content area has a heading "Attach to VPC (igw-0c0af78b840bf3195)" with an "Info" link. Below it, a section titled "Available VPCs" contains the instruction "Attach the internet gateway to this VPC." A search bar contains the text "Q: vpc-080e41cf23e6e139". At the bottom are "Cancel" and "Attach Internet gateway" buttons.

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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 gateway igw-0c0af78b840bf3195 successfully attached to vpc-080e41cf23e6e139

Internet gateways (2) Info Actions Create Internet gateway

Name	Internet gateway ID	State	VPC ID	Owner
VPC 01 IGW	igw-0c0af78b840bf3195	Attached	vpc-080e41cf23e6e139 VPC-01 E1...	143414798243
-	igw-65fcf61e	Attached	vpc-1ef35563	143414798243

Select an internet gateway above

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My Classrooms Workbench VPC Management Console

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

VPC Subnets Create subnet

Create subnet Info

VPC

VPC ID Create subnets in this VPC:
vpc-080e41cf23e6e139 (VPC-01 E18CSE187)

Associated VPC CIDRs
IPv4 CIDRs
10.100.0.0/16

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.
VPC 01 SN
The name can be up to 256 characters long.

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My Classrooms Workbench VPC Management Console

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

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

vocstartsoft/user1195245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia Support

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.
 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.

IPv4 CIDR block [Info](#)

Tags - optional

Key	Value - optional
Name	VPC 01 SN

Add new tag Remove You can add 49 more tags.

Remove

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My Classrooms Workbench Create route table | VPC Manager

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

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

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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

VPC*

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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My Classrooms Workbench Create route table | VPC Manager

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

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

vocstartsoft/user1195245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia Support

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The screenshot shows the AWS VPC Management Console with the URL <https://console.aws.amazon.com/vpc/home?region=us-east-1>EditRoutes:routeTableId=rtb-0fb9b8415371d4073>. The page title is "Edit routes". The table contains one row:

Destination	Target	Status	Propagated
10.100.0.0/16	local	active	No
0.0.0.0/0	igw-0c0af78b840bf3195		No

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.100.0.0/16	local	active	No
0.0.0.0/0	igw-0c0af78b840bf3195		No

[Add route](#)

* Required

[Cancel](#) [Save routes](#)

The screenshot shows the AWS VPC Management Console with the URL <https://console.aws.amazon.com/vpc/home?region=us-east-1>EditRouteTableSubnetAssociations:routeTableId=rtb-0fb9b8415371d4073>. The page title is "Edit subnet associations". The table contains one row:

Associated subnets	Filter by attributes or search by keyword
subnet-07aadbbecc2b7167b	1 to 1 of 1

Route Tables > Edit subnet associations

Edit subnet associations

Route table rtb-0fb9b8415371d4073 (VPC 01 RT)

Associated subnets [subnet-07aadbbecc2b7167b](#)

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-07aadbbecc2b7167b VPC 01 SN	10.100.1.0/24	-	Main

* Required

[Cancel](#) [Save](#)

The screenshot shows the AWS VPC Management Console with the URL <https://console.aws.amazon.com/vpc/home?region=us-east-1>EditRouteTableSubnetAssociations:routeTableId=rtb-0fb9b8415371d4073>. The page title is "Edit subnet associations". The table contains one row:

Associated subnets	Filter by attributes or search by keyword
subnet-07aadbbecc2b7167b	1 to 1 of 1

Screenshot of the AWS VPC Management Console showing the creation of a new 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

- Name tag - optional
Creates a tag with a key of 'Name' and a value that you specify.
- IPv4 CIDR block Info
- IPv6 CIDR block Info
 - No IPv6 CIDR block
 - Amazon-provided IPv6 CIDR block
 - IPv6 CIDR owned by me
- Tenancy Info

Tags

Type here to search

You successfully created vpc-09f5c9e92a9142bc9 / VPC-02 E18CSE187

Details Info

VPC ID	State	DNS hostnames	DNS resolution
vpc-09f5c9e92a9142bc9	Available	Disabled	Enabled
Tenancy	DHCP options set	Main route table	Main network ACL
Default	dopt-6baaea11	rtb-0b4a6c4d29b7ce822	acl-05f778b40525b6b1
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR (Network border group)
No	10.101.0.0/16	=	=
Owner ID	143414798243		

CIDRs Flow logs Tags

My Classrooms Workbench Create internet gateway | VPC M... +

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

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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.

VPC 02 IGW

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
Q Name	Q VPC 02 IGW

Add new tag You can add 49 more tags.

Cancel **Create internet gateway**



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

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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

Internet gateways (3) Info

Filter internet gateways

Name	Internet gateway ID	State	VPC ID	Owner
VPC 01 IGW	igw-0c0af78b840bf3195	Attached	vpc-080e41cf23e6e139 VPC-01 E1...	143414798243
VPC 02 IGW	igw-0e76233180838121f	Detached	-	143414798243
-	igw-65fcf61e	Attached	vpc-1ef35563	143414798243

Select an internet gateway above

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My Classrooms Workbench Attach internet gateway | VPC M... +

console.aws.amazon.com/vpc/home?region=us-east-1#AttachInternetGateway.internetGatewayId=igw-0e76233180838121f...

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

VPC > Internet gateways > Attach to VPC (igw-0e76233180838121f)

Attach to VPC (igw-0e76233180838121f) 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-09f5c9e92a9142bc9

AWS Command Line Interface command

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My Classrooms Workbench Internet gateways | VPC Manager +

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

vocstartsoft/user1195245=TP6145@bennett.edu.in @ 1434-1479-8243 N. Virginia Support ⓘ

New VPC Experience Learn more

VPC Dashboard

Filter by 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

Internet gateway igw-0e76233180838121f successfully attached to vpc-09f5c9e92a9142bc9

Internet gateways (3) Info

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	VPC 01 IGW	igw-0c0af78b840bf3195	Attached	vpc-080e41cf23e6e139 VPC-01 E1...	143414798243
<input type="checkbox"/>	VPC 02 IGW	igw-0e76233180838121f	Attached	vpc-09f5c9e92a9142bc9 VPC-02 E1...	143414798243
<input type="checkbox"/>	-	igw-65fcf61e	Attached	vpc-1ef35563	143414798243

Select an internet gateway above

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Screenshot of the AWS VPC Management Console showing the 'Create subnet' wizard.

VPC ID: vpc-09f5c9e92a9142bc9 (VPC-02 E18CSE187)

Associated VPC CIDRs: IPv4 CIDRs: 10.101.0.0/16

Subnet settings:

Subnet 1 of 1

Subnet name: VPC 02 SN

Availability Zone: US East (N. Virginia) / us-east-1b

IPv4 CIDR block: 10.101.1.0/24

Tags - optional:

Key	Value - optional
Name	VPC 02 SN

Buttons: Add new tag, Remove

You have successfully created 1 subnet: subnet-0d79acd38f556216b

Name	Subnet ID	State	VPC	IPv4 CIDR
—	subnet-7ceb7c23	Available	vpc-1ef35563	172.31.32.0/20
VPC 01 SN	subnet-07aadbbec2b7167b	Available	vpc-080e41cf23e6e139 VP...	10.100.1.0/24
—	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
VPC 02 SN	subnet-0d79acd38f556216b	Available	vpc-09f5c9e92a9142bc9 VP...	10.101.1.0/24
—	subnet-2a5ecf0b	Available	vpc-1ef35563	172.31.80.0/20

Select a subnet

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: VPC 02 RT

VPC*: vpc-09f5c9e92a9142bc9

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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Type here to search

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The screenshot shows the AWS VPC Management Console with the URL <https://console.aws.amazon.com/vpc/home?region=us-east-1>EditRoutes:routeTableId=rtb-075a84606fb23392a>. The page title is "Edit routes". A table lists two routes:

Destination	Target	Status	Propagated
10.101.0.0/16	local	active	No
0.0.0.0/0	igw-0e76233180838121f		No

Buttons at the bottom include "Add route", "Cancel", and "Save routes".

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.101.0.0/16	local	active	No
0.0.0.0/0	igw-0e76233180838121f		No

Add route

* Required

Cancel Save routes

The screenshot shows the AWS VPC Management Console with the URL <https://console.aws.amazon.com/vpc/home?region=us-east-1>EditRouteTableSubnetAssociations:routeTableId=rtb-075a84606fb23392a>. The page title is "Edit subnet associations". A table lists one subnet association:

Associated subnets	subnet-0d79acd38f556216b		
Filter by attributes or search by keyword	1 to 1 of 1		
Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-0d79acd38f556216b VPC 02 SN	10.101.1.0/24	-	Main

Route Tables > Edit subnet associations

Edit subnet associations

Route table rtb-075a84606fb23392a (VPC 02 RT)

Associated subnets subnet-0d79acd38f556216b

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-0d79acd38f556216b VPC 02 SN	10.101.1.0/24	-	Main

* Required

Cancel Save

The screenshot shows the AWS VPC Management Console with the URL <https://console.aws.amazon.com/vpc/home?region=us-east-1>EditRouteTableSubnetAssociations:routeTableId=rtb-075a84606fb23392a>. The page title is "Edit subnet associations". A table lists one subnet association:

Associated subnets	subnet-0d79acd38f556216b		
Filter by attributes or search by keyword	1 to 1 of 1		
Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-0d79acd38f556216b VPC 02 SN	10.101.1.0/24	-	Main

The screenshot shows the AWS Lambda console with the 'Create Function' wizard. The top navigation bar includes 'My Classrooms', 'Workbench', and 'Create Peering Connection | VPC'. The main content area is titled 'Create Peering Connection' and shows a search bar with 'Search for services, features, marketplace products, and docs'. Below the search bar, there's a section for 'Peering connection name tag' with the value 'VPC 01 - VPC 02'. A table lists 'Select a local VPC to peer with' with one entry: 'VPC (Requester)*' set to 'vpc-080e41cf23e6e139'. The table has columns 'CIDRs', 'CIDR', 'Status', and 'Status Reason', showing '10.100.0.0/16' with status 'associated'.

Peering Connections > Create Peering Connection

Create Peering Connection

Peering connection name tag ⓘ

Select a local VPC to peer with

VPC (Requester)*	vpc-080e41cf23e6e139		
CIDRs	CIDR	Status	Status Reason
	10.100.0.0/16	associated	

Select another VPC to peer with

Account My account
 Another account

Region This region (us-east-1)
 Another Region

The screenshot shows the AWS Lambda console with the 'Create Function' wizard. The top navigation bar includes 'My Classrooms', 'Workbench', and 'Create Peering Connection | VPC'. The main content area is titled 'Create Peering Connection' and shows a search bar with 'Search for services, features, marketplace products, and docs'. Below the search bar, there's a section for 'Select another VPC to peer with' with 'Account' set to 'My account' and 'Region' set to 'This region (us-east-1)'. A table lists 'VPC (Acceptor)' with one entry: 'VPC (Acceptor)*' set to 'vpc-09f5c9e92a9142bc9'. The table has columns 'CIDRs', 'CIDR', 'Status', and 'Status Reason', showing '10.101.0.0/16' with status 'associated'.

Select another VPC to peer with

Account My account
 Another account

Region This region (us-east-1)
 Another Region

VPC (Acceptor)*	vpc-09f5c9e92a9142bc9		
CIDRs	CIDR	Status	Status Reason
	10.101.0.0/16	associated	

Tags

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

This resource currently has no tags

[Add Tag](#) 50 remaining (Up to 50 tags maximum)

The screenshot shows the AWS Lambda console with the 'Create Function' wizard. The top navigation bar includes 'My Classrooms', 'Workbench', and 'Create Peering Connection | VPC'. The main content area is titled 'Create Peering Connection' and shows a search bar with 'Search for services, features, marketplace products, and docs'. Below the search bar, there's a section for 'Tags' with a note 'This resource currently has no tags'. A button '[Add Tag](#)' is shown with the text '50 remaining (Up to 50 tags maximum)'. The bottom of the screen shows the Windows taskbar with various pinned icons like File Explorer, Edge, and File History.

The screenshot shows the AWS Lambda console with the title 'Create Function' at the top. Step 1 is selected, and the sub-step 'Set Function Name' is shown. A text input field contains the placeholder 'HelloWorld'. Below it, there's a dropdown for 'Region' set to 'us-east-1' and a dropdown for 'Runtime' set to 'Node.js 12.x'. A large 'Next Step' button is at the bottom.

Peering Connections > Create Peering Connection

Create Peering Connection

Success

A VPC peering connection (pcx-0d5acdb9a3a7a0d25) has been requested.

Requester VPC owner	143414798243 (This account)	Acceptor VPC owner	143414798243 (This account)
Requester VPC ID	vpc-080e41cf23e6e139	Acceptor VPC ID	vpc-09f5c9e92a9142bc9
Requester VPC Region	us-east-1	Acceptor VPC Region	us-east-1
Requester VPC CIDRs	10.100.0.0/16	Acceptor VPC CIDRs	-

OK

The screenshot shows the AWS Lambda console with the title 'Create Function' at the top. Step 1 is selected, and the sub-step 'Set Function Name' is shown. A text input field contains the placeholder 'HelloWorld'. Below it, there's a dropdown for 'Region' set to 'us-east-1' and a dropdown for 'Runtime' set to 'Node.js 12.x'. A large 'Next Step' button is at the bottom.

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The screenshot shows the AWS Lambda console with the title 'Create Function' at the top. Step 1 is selected, and the sub-step 'Set Function Name' is shown. A text input field contains the placeholder 'HelloWorld'. Below it, there's a dropdown for 'Region' set to 'us-east-1' and a dropdown for 'Runtime' set to 'Node.js 12.x'. A large 'Next Step' button is at the bottom.

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

0 9:38 PM 05-02-2021

The screenshot shows the AWS Lambda console with the title 'Create Function' at the top. Step 1 is selected, and the sub-step 'Set Function Name' is shown. A text input field contains the placeholder 'HelloWorld'. Below it, there's a dropdown for 'Region' set to 'us-east-1' and a dropdown for 'Runtime' set to 'Node.js 12.x'. A large 'Next Step' button is at the bottom.

Peering Connections | VPC Manager

0 9:38 PM 05-02-2021

Create Peering Connection

Actions

Filter by tags and attributes or search by keyword

Name	Peering Connecti...	Status	Requester VPC	Acceptor VPC	Requester CIDRs	Acceptor CIDRs	Requester Owner	Acceptor C...
VPC 01 - V...	pcx-0d5acdb9a3a...	Pending Acce...	vpc-080e41cf23e...	vpc-09f5c9e92a91...	10.100.0.0/16	-	143414798243	143414798243

Peering Connection: pcx-0d5acdb9a3a7a0d25

Description ClassicLink DNS Route Tables Tags

Requester VPC owner	143414798243	Acceptor VPC owner	143414798243
Requester VPC ID	vpc-080e41cf23e6e139	Acceptor VPC ID	vpc-09f5c9e92a9142bc9
Requester VPC Region	N. Virginia (us-east-1)	Acceptor VPC Region	N. Virginia (us-east-1)
Requester VPC CIDRs	10.100.0.0/16	Acceptor VPC CIDRs	-

Feedback English (US) ▾

Type here to search

0 9:38 PM 05-02-2021

The screenshot shows the AWS VPC Peering Connections console. On the left, there's a sidebar for 'My Classrooms' and 'Workbench'. The main navigation bar has tabs for 'Peering Connections' and 'VPC Manager'. The URL is `console.aws.amazon.com/vpc/home?region=us-east-1#PeeringConnections:sort=vpcPeeringConnectionId`. A search bar at the top says 'Search for services, features, marketplace products, and docs [Alt+S]'. Below it, a message says 'Now VPC Experience. Learn more'. A 'Create Peering Connection' button and an 'Actions' dropdown are also present.

The main content area shows a table of peering connections. One row is highlighted in blue, representing a connection between 'VPC 01' and another VPC. The status is 'Pending Acceptance'. The requester VPC details are: Requester Account ID 143414798243, Requester VPC ID vpc-080e41cf023e6e139, Requester VPC Region us-east-1, Requester VPC CIDR 10.100.0.0/16. The accepter VPC details are: Acceptor Account ID 143414798243, Acceptor VPC ID vpc-09f5c9e92a9142bc9, Acceptor VPC Region N. Virginia (us-east-1), Acceptor VPC CIDR -.

A modal dialog box titled 'Accept VPC Peering Connection Request' is open. It asks 'Are you sure you want to accept this VPC peering connection request (pxc-0d5acdb9a3a7a0d25)?'. It lists the requester and accepter details again. At the bottom right of the modal are 'Cancel' and 'Yes, Accept' buttons.

Below the modal, the table shows the accepted connection with a green checkmark icon. The table columns are: Name, Peering Connect ID, Status, Requester VPC, Acceptor VPC, Requester CIDRs, Acceptor CIDRs, Requester Owner, and Acceptor C.

Peering Connections | VPC Manager

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

New VPC Experience
Tell us what you think

Lists [New](#)

Endpoints

Endpoint Services

NAT Gateways [New](#)

Peering Connections

▼ SECURITY

Network ACLs [New](#)

Security Groups [New](#)

▼ REACHABILITY

Reachability Analyzer

▼ AWS NETWORK FIREWALL

Firewalls

Firewall policies

Network Firewall rule groups

▼ VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private Gateways

Services ▾

aws Services ▾

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

Create Peering Connection Actions ▾

Filter by tags and attributes or search by keyword

Name	Peering Connecti	Status	Requester VPC	Acceptor VPC	Requester CIDRs	Acceptor CIDRs	Requester Owner	Acceptor Owner
VPC 01 - V...	pox-04f4b076848...	Active	vpc-0f17a96643c9...	vpc-0b6d3c2fe571...	10.100.0.0/16	10.101.0.0/16	634102821134	634102821134

Peering Connection: ppx-04f4b07684889b6f9

Description ClassicLink DNS Route Tables Tags

Requester VPC owner	634102821134	Acceptor VPC owner	634102821134
Requester VPC ID	vpc-0f17a96643c9340ab	Acceptor VPC ID	vpc-0b6d3c2fe5710a86d
Requester VPC Region	N. Virginia (us-east-1)	Acceptor VPC Region	N. Virginia (us-east-1)
Requester VPC CIDRs	10.100.0.0/16	Acceptor VPC CIDRs	10.101.0.0/16

Feedback English (US) ▾

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0955 PM 05-02-2021

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)			
AWS Marketplace (851)	Microsoft Windows Server 2019 Base - ami-0f5761c546ea1265a	Microsoft Windows 2019 Datacenter edition [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select 64-bit (x86)
Community AMIs (10596)	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)
<input type="checkbox"/> Free tier only ⓘ	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.

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
<input checked="" type="checkbox"/> 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

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-0f17a96643c9340ab | VPC-01 E18CE187 [Create new VPC](#)

Subnet: subnet-033a81de4e188dc8e | VPC 01 SN | us-east-1 [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](#)

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 (MB/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](#)

The screenshot shows the AWS Lambda console with the URL <https://console.aws.amazon.com/lambda/home?region=us-east-1#LaunchInstanceWizard>. The page is titled "Launch instance wizard | EC2" and is on step 5: Add Tags. The navigation bar includes links for Choose AMI, Choose Instance Type, Configure Instance, Add Storage, Add Tags, Configure Security Group, and Review. The main area shows a table for adding tags, with one row selected: "Name" (VPC 01 E18CSE187). Buttons at the bottom include Cancel, Previous, Review and Launch (highlighted in blue), and Next: Configure Security Group.

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.

This screenshot is identical to the one above, showing the "Add Tags" step of the Lambda launch wizard. The user has added a tag named "VPC 01 E18CSE187". The "Review and Launch" button is highlighted in blue.

The screenshot shows the AWS Lambda console with the URL <https://console.aws.amazon.com/lambda/home?region=us-east-1#LaunchInstanceWizard>. The page is titled "Launch instance wizard | EC2" and is on step 6: Configure Security Group. The navigation bar includes links for Choose AMI, Choose Instance Type, Configure Instance, Add Storage, Add Tags, Configure Security Group, and Review. The main area shows a table for creating a new security group. The "Security group name" field is set to "VPC 01 SG" and the "Description" field is "launch-wizard-1 created 2021-02-05T21:59:55.333+05:30". A warning message at the bottom states: "Warning: Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only." Buttons at the bottom include Cancel, Previous, Review and Launch (highlighted in blue), and Next: Configure Security Group.

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 name:
Description:

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	Anywhere	0.0.0.0/0, ::/0 e.g. SSH for Admin Desktop
All ICMP - IPv4	ICMP	0 - 65535	Anywhere	0.0.0.0/0, ::/0 e.g. SSH for Admin Desktop

Add Rule



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

This screenshot is identical to the one above, showing the "Configure Security Group" step of the Lambda launch wizard. The user has created a new security group named "VPC 01 SG". The "Review and Launch" button is highlighted in blue.

Launch instance wizard | EC2 Manager

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

Services ▾

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

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to Step 6 if you need to make changes.

AMI Details

Microsoft Windows Server 2019 Base - ami-0f5761c546ea1265a

Free tier 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 Microsoft's free tier, select the checkbox.

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1.0

Security Groups

Choose a security group or create a new one. You can always change it later.

Review

Cancel Previous Launch

Feedback English (US) ▾

Type here to search

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10:03 PM 05-02-2021

A Free Download Manager window is overlaid on the AWS EC2 wizard. It shows a download progress bar for a file named 'VPC01K.pem' from 'https://www.tutorialspoint.com/codes/2011/shared/documents/Farm/Alarms.aspx'. The file size is 107 MB and it was added at 08:59 PM.

Launch instance wizard | EC2 Manager

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

Services ▾

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

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)

My AMIs (0)

AWS Marketplace (851)

Community AMIs (10596)

Free tier only ⓘ

Windows

Microsoft Windows Server 2019 Base - ami-0f5761c546ea1265a

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)

Cancel and Exit

Feedback English (US) ▾

Type here to search

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10:03 PM 05-02-2021

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 (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/> t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
	t2.small	1	2	EBS only	-	Low to Moderate	Yes
	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
	t2.large	2	8	EBS only	-	Low to Moderate	Yes
	t2.xlarge	4	16	EBS only	-	Moderate	Yes
	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigaabit

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)

Cancel **Previous** **Review and Launch** **Next: Configure Instance Details**

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	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot Instances	
Network	vpc-0b6d3c2fe5710a86d VPC-02 E18CSE187 <input type="button" value="Create new VPC"/>	
Subnet	subnet-0bef06e3e257efca0 VPC 02 SN us-east-1 <input type="button" value="Create new subnet"/> 251 IP Addresses available	
Auto-assign Public IP	Enable	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	Open	
Domain join directory	No directory <input type="button" value="Create new directory"/>	
IAM role	None <input type="button" value="Create new IAM role"/>	
CPU options	<input type="checkbox"/> Specify CPU options	
Shutdown behavior	Stop	

Cancel **Previous** **Review and Launch** **Next: Add Storage**



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 (MB/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.](#)

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	VPC 02 E18CSE187			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

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 name: VPC 02 SG
Description: launch-wizard-1 created 2021-02-05T22:04:39.511+05:30

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	Anywhere (0.0.0.0/0)	e.g. SSH for Admin Desktop
All ICMP - IPv4	ICMP	0 - 65535	Anywhere (0.0.0.0/0)	e.g. SSH for Admin Desktop

Add Rule

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

Step 7: Review Instance Launch

Instance Type: t2.micro
ECUs: 1
vCPUs: 1

Security Groups:

Security group name	Description
VPC 02 SG	launch-wizard-1 created 2021-02-05T22:04:39.511+05:30

Type: RDP
Protocol: TCP
RDP
Protocol: TCP
All ICMP - IPv4
All ICMP - IPv4

Instance Details

Storage

Tags

Free Download Manager window showing a download progress bar for "VPC02K.pem". The file is being saved to "C:\Users\TANVI\Desktop".

Launch Instances

Cancel Previous Launch

The screenshot shows the AWS EC2 Management Console interface. The left sidebar is collapsed, displaying the following navigation items:

- Instances (2) New
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts New
- Scheduled Instances
- Capacity Reservations
- Images (AMIs)
- Elastic Block Store (Volumes)

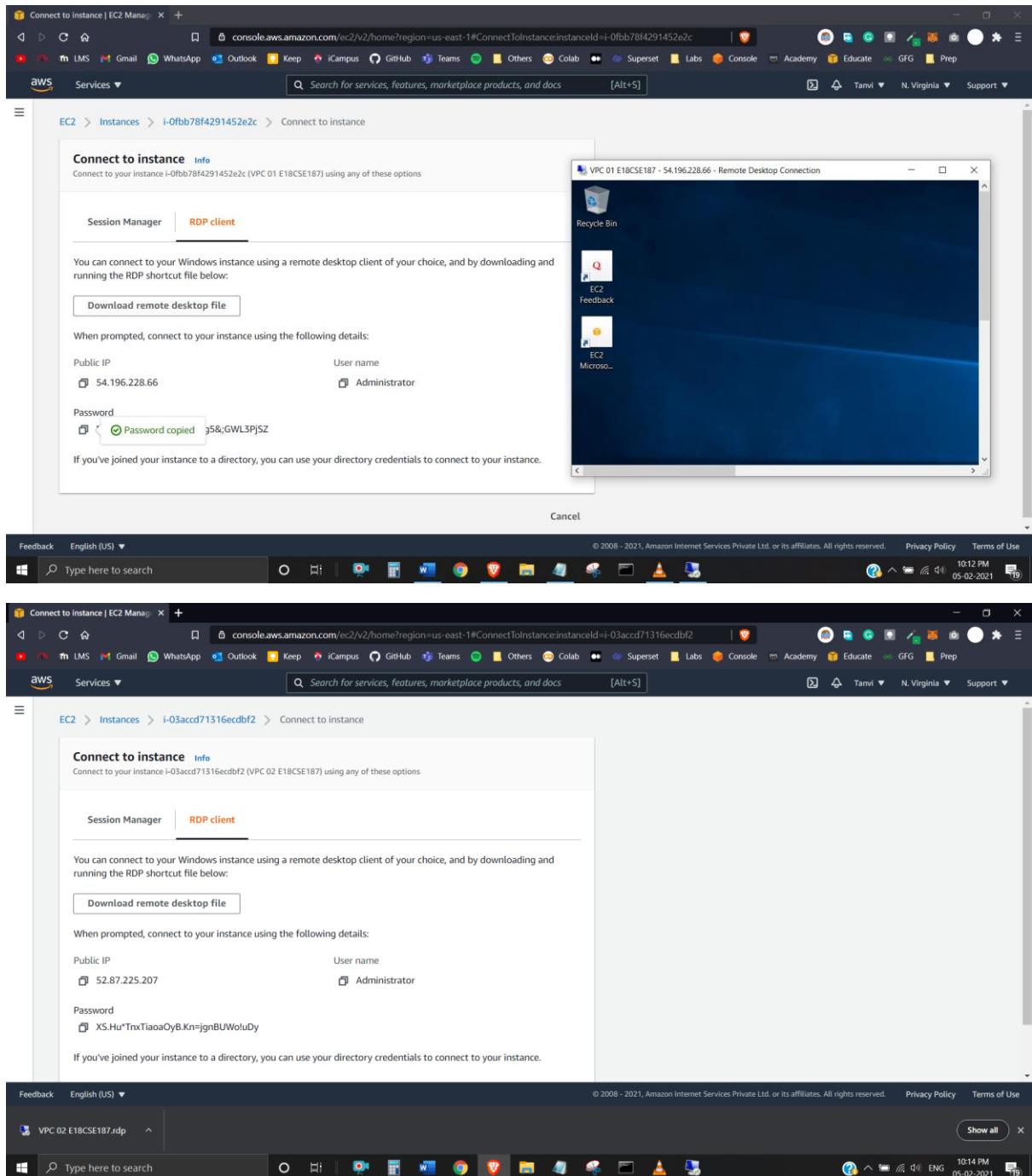
The main content area displays the "Instances (2) Info" page. At the top, there is a search bar and a "Launch instances" button. Below the search bar, there are filters for "Name", "Instance ID", "Instance state", "Instance type", "Status check", "Alarm status", "Availability Zone", and "Public IP". The table lists two instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
VPC 01 E18CSE187	i-0fb878f4291452e2c	Running	t2.micro	Initializing	No alarms	us-east-1a	-
VPC 02 E18CSE187	i-03accd71316ecdbf2	Running	t2.micro	-	No alarms	us-east-1b	-

A message "Select an instance above" is displayed below the table. The bottom of the screen features the Windows taskbar with various pinned icons.

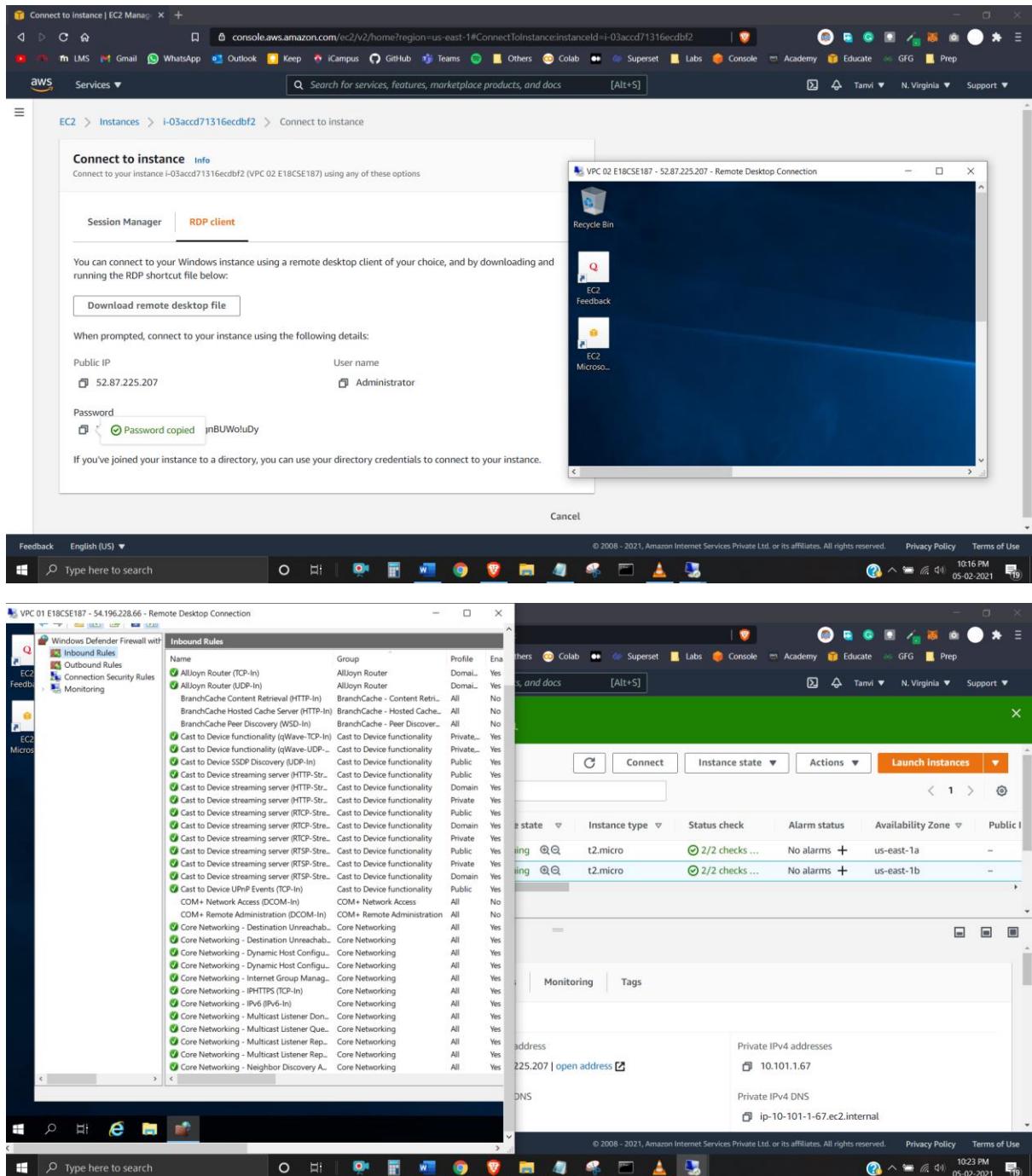
The screenshot shows the AWS EC2 Connect to instance page for an instance named i-0fb78f4291452e2c. The 'RDP client' tab is selected. It provides instructions to connect using a remote desktop client or by downloading an RDP shortcut file. It lists the Public IP (54.196.228.66), User name (Administrator), and Password (RzEw&wqBNO6WczNv.8g5&;GWL3PJ\$Z). A note says if joined to a directory, directory credentials can be used. The bottom navigation bar includes links for Feedback, English (US), Privacy Policy, and Terms of Use.

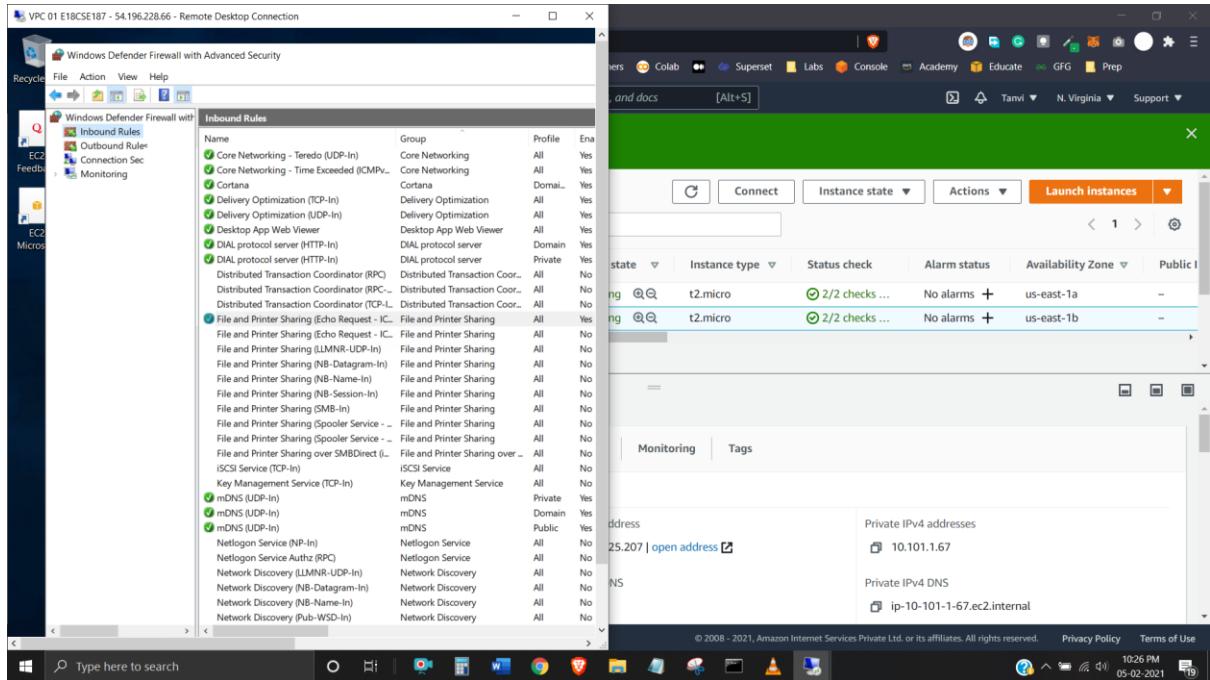
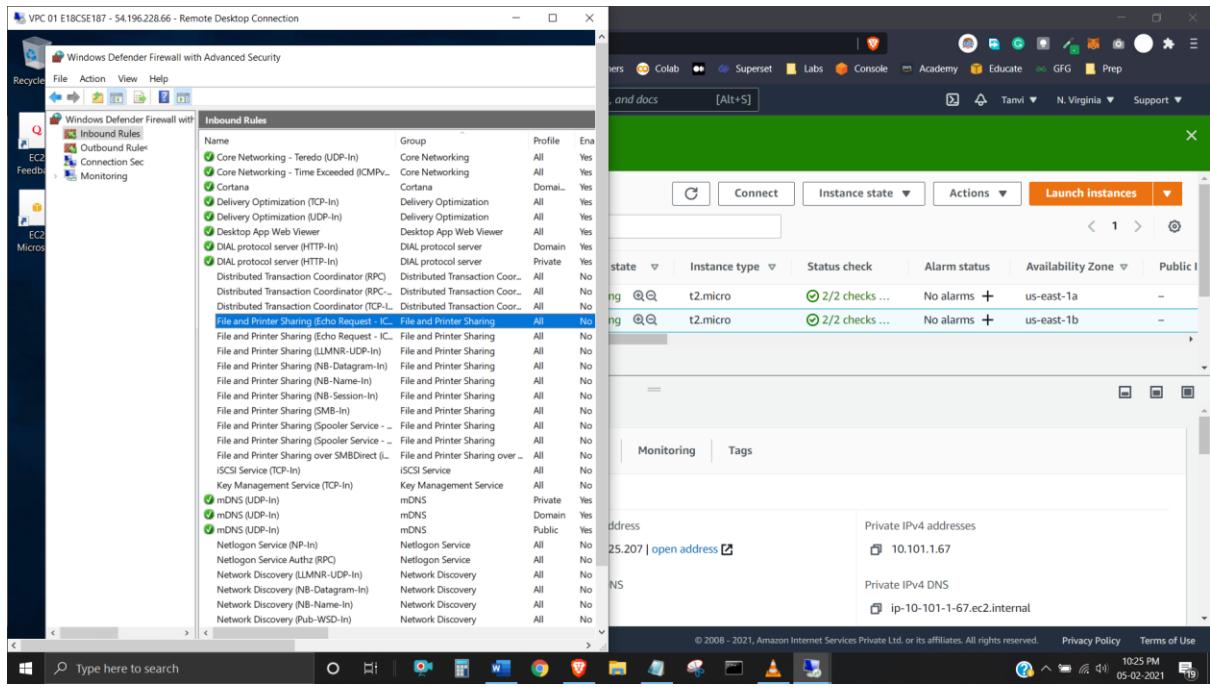
Screenshot of the AWS CloudWatch Metrics Insights interface showing a log stream named "AWS CloudWatch Metrics Insights". The log stream displays several log entries, each containing a timestamp, a log level (INFO), and a log message. The log messages include details about metric definitions and their corresponding dimensions.

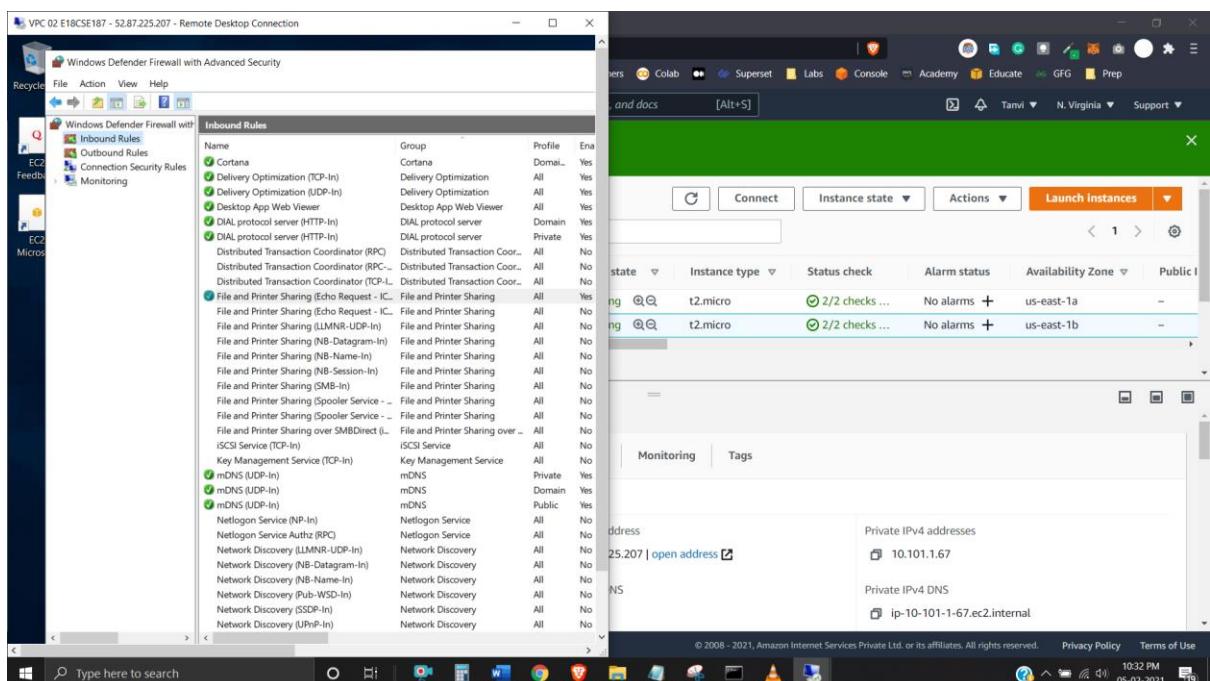
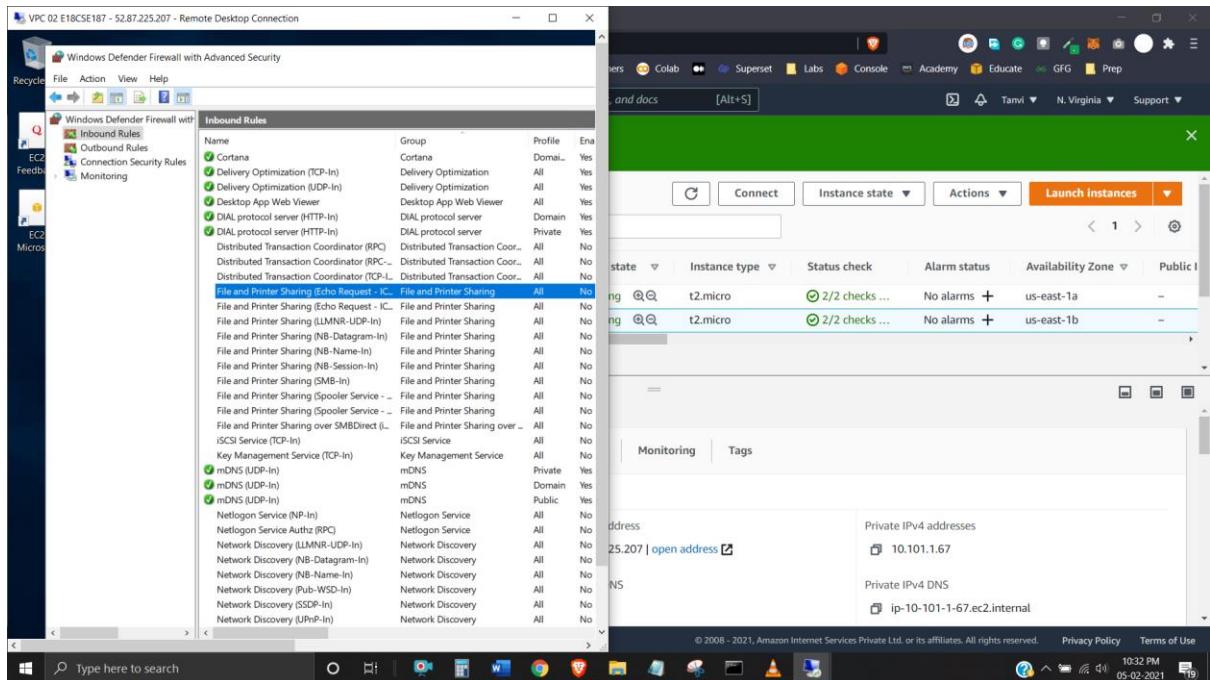


The interface includes a search bar at the top, a navigation menu on the left, and a detailed view of the log entries on the right. The log entries are as follows:

- INFO 2023-01-10T12:00:00Z Metric definition for 'CPUUtilization' is updated. Dimensions: Region=us-east-1, ServiceName=AmazonCloudWatchMetricsInsights
- INFO 2023-01-10T12:00:00Z Metric definition for 'MemoryUtilization' is updated. Dimensions: Region=us-east-1, ServiceName=AmazonCloudWatchMetricsInsights
- INFO 2023-01-10T12:00:00Z Metric definition for 'NetworkIn' is updated. Dimensions: Region=us-east-1, ServiceName=AmazonCloudWatchMetricsInsights
- INFO 2023-01-10T12:00:00Z Metric definition for 'NetworkOut' is updated. Dimensions: Region=us-east-1, ServiceName=AmazonCloudWatchMetricsInsights
- INFO 2023-01-10T12:00:00Z Metric definition for 'Latency' is updated. Dimensions: Region=us-east-1, ServiceName=AmazonCloudWatchMetricsInsights
- INFO 2023-01-10T12:00:00Z Metric definition for 'Throughput' is updated. Dimensions: Region=us-east-1, ServiceName=AmazonCloudWatchMetricsInsights







Edit routes | VPC Management C + console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:routeTableId=rtb-038bf285af8c5ba6

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

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.100.0.0/16	local	active	No
0.0.0.0/0	lgw-09748732920495539	active	No
10.101.0.0/16	pxc-04f4b07684889b6f9	active	No

Add route

* Required Cancel Save routes

Feedback English (US) ▾ Type here to search © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use 10:36 PM 05-02-2021

Edit routes | VPC Management C + console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:routeTableId=rtb-03235b8e473db8457

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

Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.101.0.0/16	local	active	No
0.0.0.0/0	lgw-07c920bf55fd8ac05	active	No
10.100.0.0/16	pxc-04f4b07684889b6f9	active	No

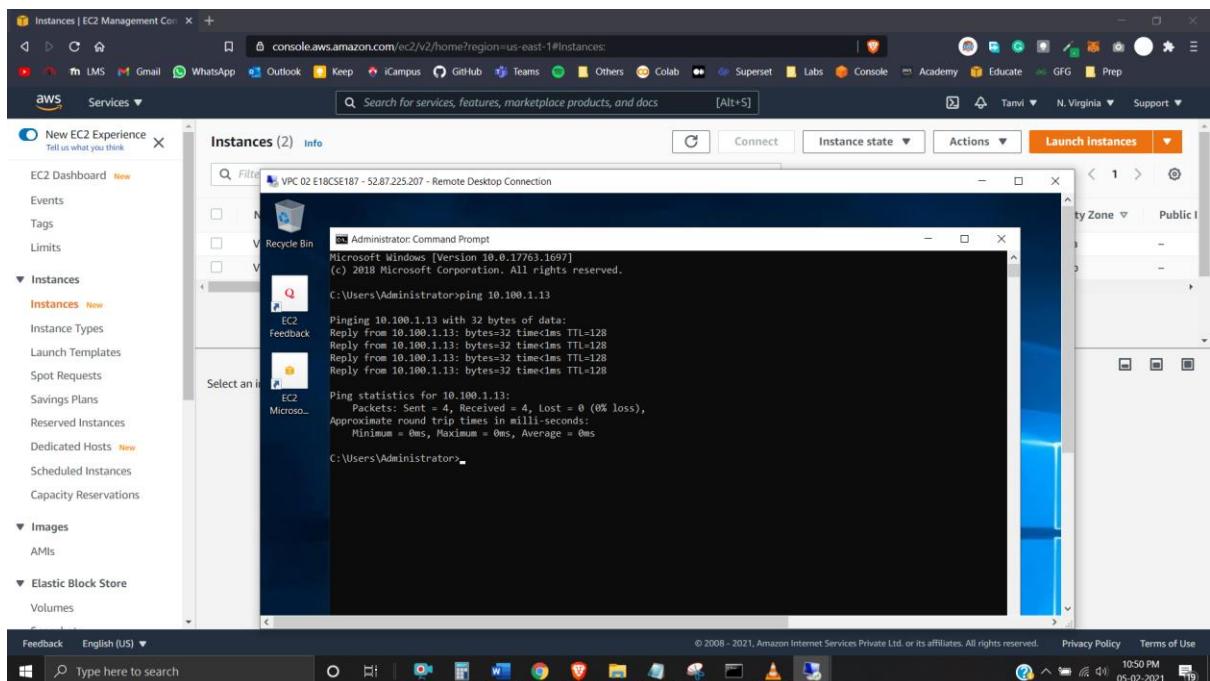
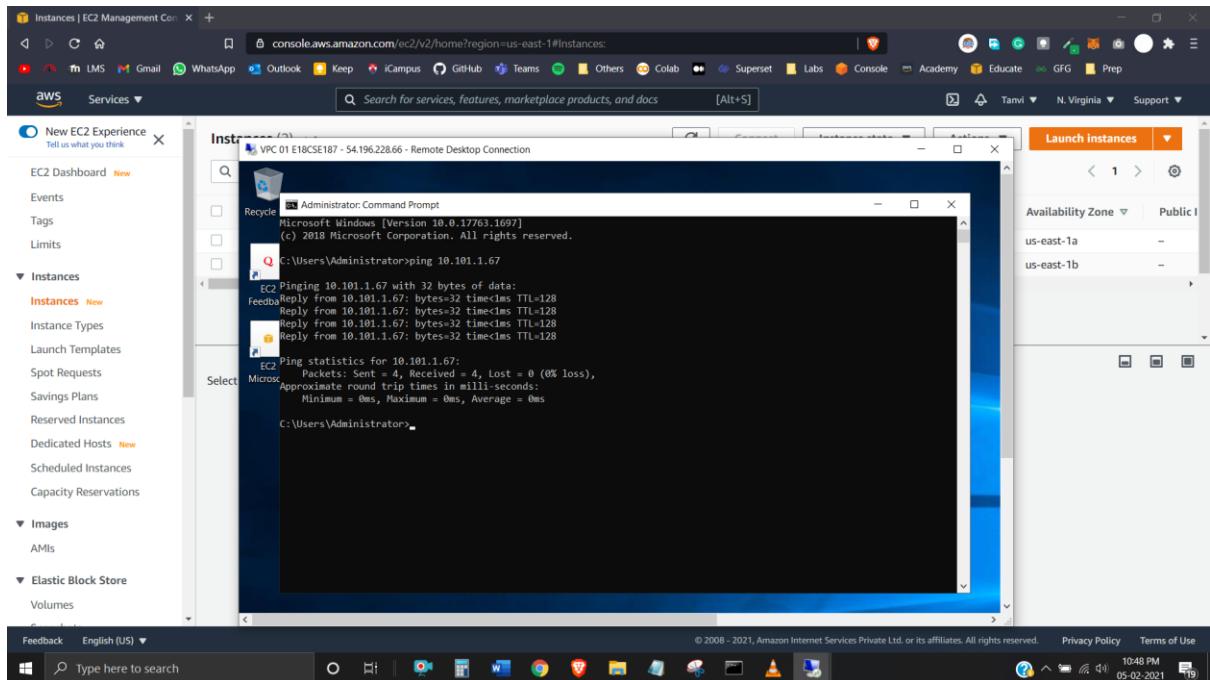
Add route

* Required Cancel Save routes

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Edit routes | VPC Management C + console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:routeTableId=rtb-03235b8e473db8457

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



Lab Scenario 2

The screenshot shows the AWS VPC Management Console with the 'Create VPC' wizard open. The 'VPC settings' step is selected, displaying fields for:

- Name tag - optional: VPC 01
- IPv4 CIDR block: 10.200.0.0/16
- IPv6 CIDR block: No IPv6 CIDR block selected
- Tenancy: Default

Below the settings, there is a 'Tags' section and a 'Feedback' bar at the bottom.

The screenshot shows the AWS VPC Management Console with the 'Create internet gateway' wizard open. The 'Internet gateway settings' step is selected, displaying fields for:

- Name tag: VPC 01 IGW

Below the settings, there is a 'Tags - optional' section where a single tag 'Name: VPC 01 IGW' has been added. A note indicates 49 more tags can be added. At the bottom, there is a 'Create internet gateway' button.

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Internet gateways | VPC Manager

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

New VPC Experience
Tell us what you think

VPC Dashboard New

Filter by VPC:

VIRTUAL PRIVATE CLOUD

Your VPCs New

Subnets New

Route Tables

Internet Gateways New

Egress Only Internet Gateways New

Carrier Gateways New

DHCP Options Sets New

Elastic IPs New

Managed Prefix Lists New

Endpoints

Endpoint Services

NAT Gateways New

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Actions Create internet gateway

Internet gateways (2) Info

Filter internet gateways

Name	Internet gateway ID	State	VPC ID	Owner
—	igw-03eedf78	Attached	vpc-58448625	634102821134
VPC 01 IGW	igw-0abe81b88e581932a	Attached	vpc-0218dab34b48b09c7 VPC 01	634102821134

Select an internet gateway above

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VPC Management Console

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

VPC Subnets Create subnet

Create subnet Info

VPC

VPC ID
Create subnets in this VPC.
vpc-0218dab34b48b09c7 (VPC 01)

Associated VPC CIDRs
IPv4 CIDRs
10.200.0.0/16

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.
VPC 01 SN

The name can be up to 256 characters long.

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Actions Create subnet

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VPC Management Console

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

Services ▾

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Tanvi N. Virginia Support

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.
 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.

IPv4 CIDR block Info
 Tags - optional

Tags - optional

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="VPC 01 SN"/>

Add new tag You can add 49 more tags.

Remove

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Create route table | VPC Manager

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

Services ▾

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Tanvi N. Virginia Support

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 i

VPC* i

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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Edit routes | VPC Management C × + console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:routeTableId=rtb-0ffaa04485766e058

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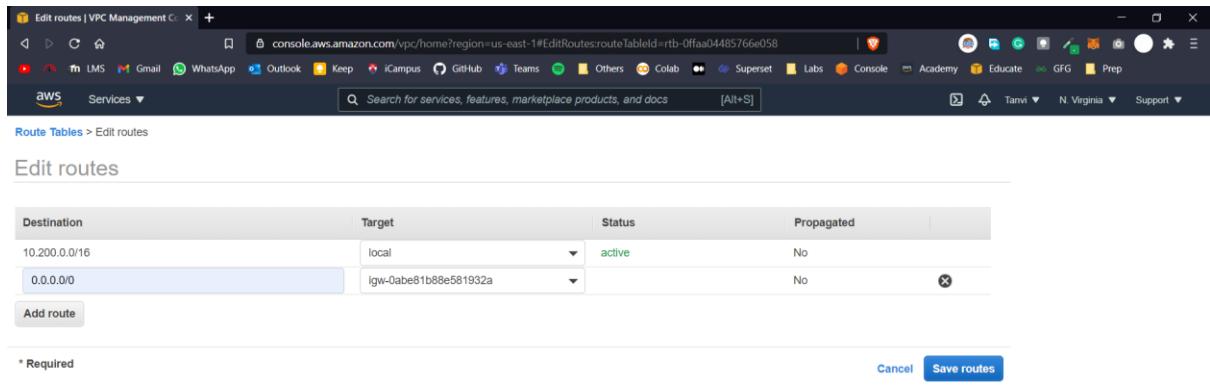
Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.200.0.0/16	local	active	No
0.0.0.0/0	igw-0abe81b88e581932a		No

Add route

* Required Cancel Save routes



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Edit subnet associations | VPC M × + console.aws.amazon.com/vpc/home?region=us-east-1#EditRouteTableSubnetAssociations:routeTableId=rtb-0ffaa04485766e058

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

Route Tables > Edit subnet associations

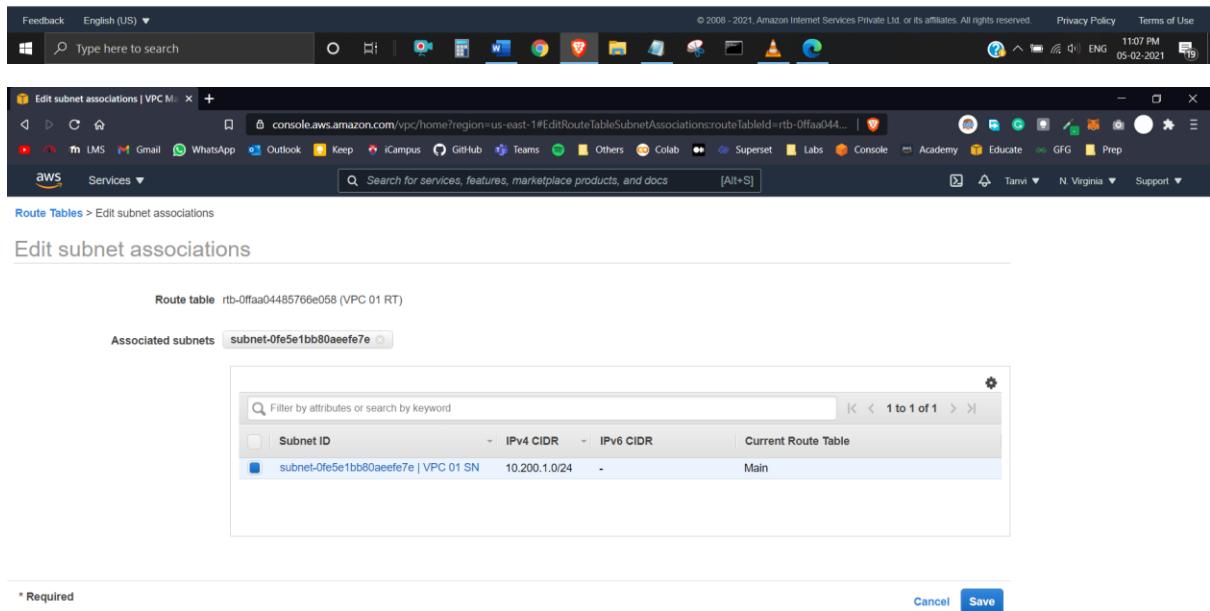
Edit subnet associations

Route table rtb-0ffaa04485766e058 (VPC 01 RT)

Associated subnets subnet-0fe5e1bb80aeefe7e

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-0fe5e1bb80aeefe7e VPC 01 SN	10.200.1.0/24	-	Main

* Required Cancel Save



Create VPC Info

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.

IPv4 CIDR block Info

IPv6 CIDR block Info
 No IPv6 CIDR block
 Amazon-provided IPv6 CIDR block
 IPv6 CIDR owned by me

Tenancy Info

Tags

Type here to search

Create internet gateway Info

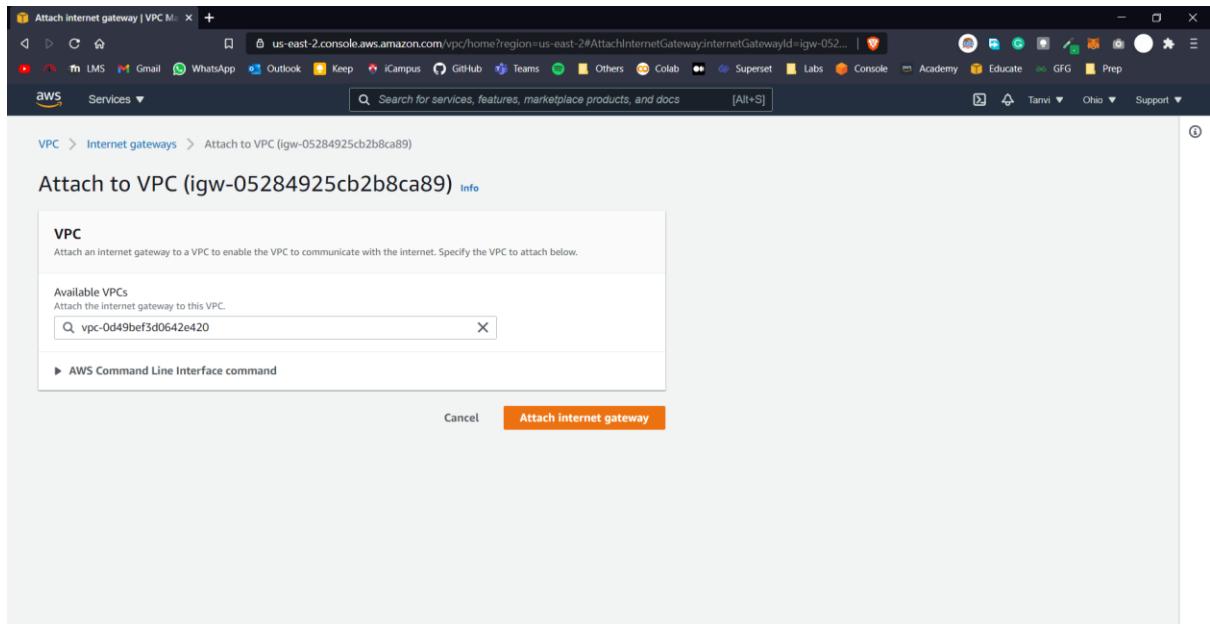
An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

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 Remove
Add new tag
You can add 49 more tags.



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Internet gateways | VPC Manager

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

Services ▾

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Internet gateways (2) [Info](#)

Actions [Create internet gateway](#)

Name	Internet gateway ID	State	VPC ID	Owner
VPC 02 IGW	igw-05284925cb2b8ca89	Attached	vpc-0d49bef3d0642e420 VPC 02	634102821134
-	igw-5e7b2a36	Attached	vpc-0809bd63	634102821134

Select an internet gateway above

New VPC Experience Tell us what you think

VPC Dashboard [New](#)

Filter by VPC: Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs [New](#)

Subnets [New](#)

Route Tables

Internet Gateways [New](#)

Egress Only Internet Gateways [New](#)

DHCP Options Sets [New](#)

Elastic IPs [New](#)

Managed Prefix Lists [New](#)

Endpoints

Endpoint Services

NAT Gateways [New](#)

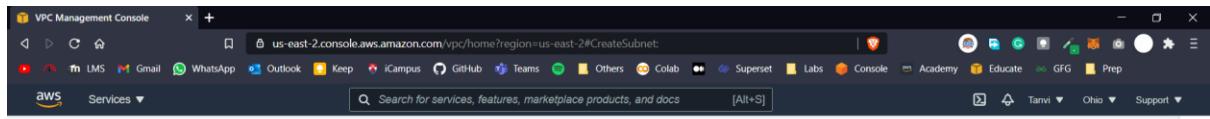
Peering Connections

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VPC > Subnets > Create subnet

Create subnet Info

VPC

VPC ID

Create subnets in this VPC.

vpc-0d49bef3d0642e420 (VPC 02)

Associated VPC CIDRs

IPv4 CIDRs

10.201.0.0/16

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.

VPC 02 SN

The name can be up to 256 characters long.

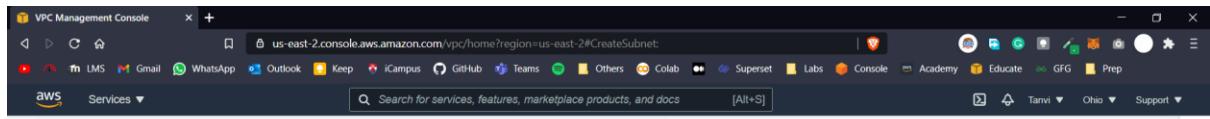
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Subnet settings

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.

VPC 02 SN

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 10.201.1.0/24 X

▼ Tags - optional

Key Value - optional

Q Name Q VPC 02 SN X Remove

Add new tag

You can add 49 more tags.

Remove

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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.

Name tag i

VPC* c i

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

The screenshot shows the AWS VPC Management console with the URL us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#EditRoutes:routeTableId=rtb-05508bc569cf9d86c. The page displays a table of routes:

Destination	Target	Status	Propagated
10.201.0.0/16	local	active	No
0.0.0.0/0	igw-05284925cb2b8ca89	active	No

At the bottom, there are buttons for "Add route", "Cancel", and "Save routes". A note at the bottom left says "* Required".

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Edit subnet associations | VPC Management Console

Route Tables > Edit subnet associations

Route table rtb-05508bc569cf9d86c (VPC 02 RT)

Associated subnets **subnet-0934501cfe3aaaf83**

Subnet ID	IPv4 CIDR	IPv6 CIDR	Current Route Table
subnet-0934501cfe3aaaf83 VPC 02 SN	10.201.1.0/24	-	Main

* Required Cancel Save

Create Peering Connection | VPC

Peering Connections > Create Peering Connection

Create Peering Connection

Peering connection name tag **VPC01-VPC02**

Select a local VPC to peer with

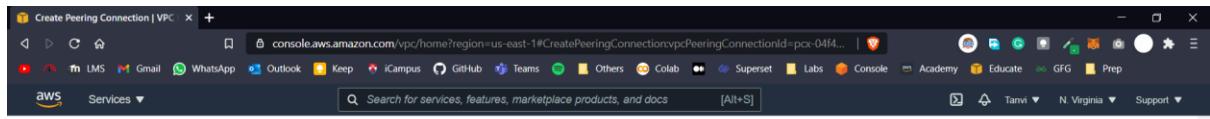
VPC (Requester)* **vpc-0218dab34b48b09c7**

CIDRs	CIDR	Status	Status Reason
	10.200.0.0/16	associated	

Select another VPC to peer with

Account My account Another account

Region This region (us-east-1) Another Region



Select another VPC to peer with

Account My account
 Another account

Region This region (us-east-1)
 Another Region

US East (Ohio) (us-east-2)

VPC ID (Acceptor)* vpc-0d49bef3d0642e420

Tags

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

This resource currently has no tags

Add Tag 50 remaining (Up to 50 tags maximum)

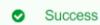
* Required

Cancel Create Peering Connection



Peering Connections > Create Peering Connection

Create Peering Connection



A VPC peering connection (pxc-0569c35ac9f141f00) has been requested.

Remember to change your region to us-east-2 to accept the peering connection.

Requester VPC owner	634102821134 (This account)	Acceptor VPC owner	634102821134 (This account)
Requester VPC ID	vpc-0218dab34b48b09c7	Acceptor VPC ID	vpc-0d49bef3d0642e420
Requester VPC Region	us-east-1	Acceptor VPC Region	us-east-2
Requester VPC CIDRs	10.200.0.0/16	Acceptor VPC CIDRs	-

OK



Peering Connections | VPC Manager

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

New VPC Experience
Tell us what you think
Filter by VPC:
Select a VPC

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

SECURITY
Network ACLs New

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1 to 2 of 2

Name	Peering Connection ID	Status	Requester VPC	Acceptor VPC	Requester CIDRs	Acceptor CIDRs	Requester Owner	Acceptor Owner
VPC 01 - V...	pcx-0f17a96643c9...	Deleted	vpc-0ff17a96643c9...	vpc-0b6d3c2fe571...	-	-	634102821134	634102821134
VPC01-VP...	pcx-0569c35ac9f1...	Pending Acce...	vpc-0218dab34b4...	vpc-0d49bef3d06...	10.200.0.0/16	-	634102821134	634102821134

Peering Connections | VPC Manager

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

New VPC Experience
Tell us what you think
Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD
Your VPCs New
Subnets New
Route Tables
Internet Gateways New
Egress Only Internet Gateways New
DHCP Options Sets New
Elastic IPs New
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Endpoint Services
NAT Gateways New
Peering Connections

SECURITY
Network ACLs New

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1 to 1 of 1

Peering Connection: pcx-0569c35ac9f141f00

Description	DNS	Route Tables	Tags
Requester VPC owner 634102821134 Requester VPC ID vpc-0218dab34b48b09c7 Requester VPC Region N. Virginia (us-east-1) Requester VPC CIDRs 10.200.0.0/16	Acceptor VPC owner 634102821134 Acceptor VPC ID vpc-0d49bef3d0642e420 Acceptor VPC Region Ohio (us-east-2) Acceptor VPC CIDRs -		

Peering Connections | VPC Manager

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New VPC Experience
Tell us what you think
Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD
Your VPCs New
Subnets New
Route Tables
Internet Gateways New
Egress Only Internet Gateways New
DHCP Options Sets New
Elastic IPs New
Managed Prefix Lists New
Endpoints
Endpoint Services
NAT Gateways New
Peering Connections
SECURITY
Network ACLs New
Security Groups New

Create Peering Connection Actions

Accept VPC Peering Connection Request

Are you sure you want to accept this VPC peering connection request (pcx-0569c35ac9f141f00)?

Requester Account ID	634102821134 (This account)	Acceptor Account ID	634102821134 (This account)
Requester VPC ID	vpc-0218dab34b48b09c7	Acceptor VPC ID	vpc-0d49bef3d0642e420
Requester VPC Region	us-east-1	Acceptor VPC Region	us-east-2
Requester VPC CIDR	10.200.0.0/16	Acceptor VPC CIDR	-

Cancel Yes, Accept

Peering Connection: pcx-0569c35ac9f141f00

Description DNS Route Tables Tags

Requester VPC owner	634102821134	Acceptor VPC owner	634102821134
Requester VPC ID	vpc-0218dab34b48b09c7	Acceptor VPC ID	vpc-0d49bef3d0642e420
Requester VPC Region	N. Virginia (us-east-1)	Acceptor VPC Region	Ohio (us-east-2)
Requester VPC CIDRs	10.200.0.0/16	Acceptor VPC CIDRs	-

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Peering Connections | VPC Manager

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New VPC Experience
Tell us what you think
Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD
Your VPCs New
Subnets New
Route Tables
Internet Gateways New
Egress Only Internet Gateways New
DHCP Options Sets New
Elastic IPs New
Managed Prefix Lists New
Endpoints
Endpoint Services
NAT Gateways New
Peering Connections
SECURITY
Network ACLs New
Security Groups New

Create Peering Connection Actions

Peering Connection: pcx-0569c35ac9f141f00

Description DNS Route Tables Tags

Requester VPC owner	634102821134	Acceptor VPC owner	634102821134
Requester VPC ID	vpc-0218dab34b48b09c7	Acceptor VPC ID	vpc-0d49bef3d0642e420
Requester VPC Region	N. Virginia (us-east-1)	Acceptor VPC Region	Ohio (us-east-2)
Requester VPC CIDRs	10.200.0.0/16	Acceptor VPC CIDRs	10.201.0.0/16

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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)			
AWS Marketplace (851)	Microsoft Windows Server 2019 Base - ami-0f5761c546ea1265a	Microsoft Windows 2019 Datacenter edition [English] Free tier eligible Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select 64-bit (x86)
Community AMIs (10597)	Microsoft Windows Server 2019 Base with Containers - ami-07df9d1e2a40d2856	Microsoft Windows 2019 Datacenter edition with Containers. [English] Free tier eligible Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select 64-bit (x86)
<input type="checkbox"/> Free tier only ⓘ	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.

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
<input checked="" type="checkbox"/> 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

Cancel Previous Review and Launch Next: Configure Instance Details

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	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot Instances	
Network	vpc-0218dab34b48b09c7 VPC 01	<input type="button" value="Create new VPC"/>
Subnet	subnet-0fe5e1bb80aeeef7e VPC 01 SN us-east-1	<input type="button" value="Create new subnet"/>
Auto-assign Public IP	Enable	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	Open	
Domain join directory	No directory	
IAM role	None	
CPU options	<input type="checkbox"/> Specify CPU options	
Shutdown behavior	Stop	

Buttons: Cancel, Previous, Review and Launch, Next: Add Storage

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 (MB/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

Note: 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.](#)

Buttons: Cancel, Previous, Review and Launch, Next: Add Tags



Launch Instance wizard | EC2 Manager

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

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces
Name		VPC 1 E18CSE187		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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.

Add another tag (Up to 50 tags maximum)

Cancel Previous Review and Launch Next: Configure Security Group

Feedback English (US) ▾

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Launch Instance wizard | EC2 Manager

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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

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

Security group name: VPC 1 SG

Description: launch-wizard-1 created 2021-02-05T23:23:44.723+05:30

Type	Protocol	Port Range	Source	Description
RDP	TCP	3389	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
All ICMP - IPv4	ICMP	0 - 65535	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

Add Rule

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

Cancel Previous Review and Launch

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Launch Instance wizard | EC2 Manager

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

Services ▾

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

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

Instance type

Instance Type	ECUs	vCPUs
t2.micro	-	1

Security Groups

VPC 1 SG (launch-wizard-1 created 2021-02-05)

Type	Protocol
RDP	TCP
All ICMP - IPv4	All
All ICMP - IPv4	All

Instance Details

Storage

Tags

Free Download Manager

New download: Lab 4 VPC Peering.pdf

Save to: C:\Users\TANVI\Desktop

File name: VPC1Lab4.pem

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Total size: 248 KB
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<https://drive.google.com/file/d/1mzWzXfjyvLwDgkVnqQWzJiCzvZwzHt1/view>

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Launch Instance wizard | EC2 Manager

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

Services ▾

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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 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)

My AMIs (0)

AWS Marketplace (832)

Community AMIs (4544)

Free tier only

Windows

Microsoft Windows Server 2019 Base - ami-00d1b5cc1e5341681

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-0985ad2d7e5418b62

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-0a8789071cc6cb50

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)

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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.

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	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 Gbps	Yes

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)

Cancel **Previous** **Review and Launch** **Next: Configure Instance Details**

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	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option <input type="checkbox"/> Request Spot Instances		
Network	vpc-0d49be73d0642e420 VPC 02	<input type="button" value="Create new VPC"/>
Subnet	subnet-0934501cf3aaaf83 VPC 02 SN us-east-2	<input type="button" value="Create new subnet"/> 251 IP Addresses available
Auto-assign Public IP	Enable	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	Open	
Domain join directory	No directory	<input type="button" value="Create new directory"/>
IAM role	None	<input type="button" value="Create new IAM role"/>
CPU options	<input type="checkbox"/> Specify CPU options	
Shutdown behavior	Stop	

Cancel **Previous** **Review and Launch** **Next: Add Storage**

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 (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0ac1039129d20645c	30	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

[Add New Volume](#)

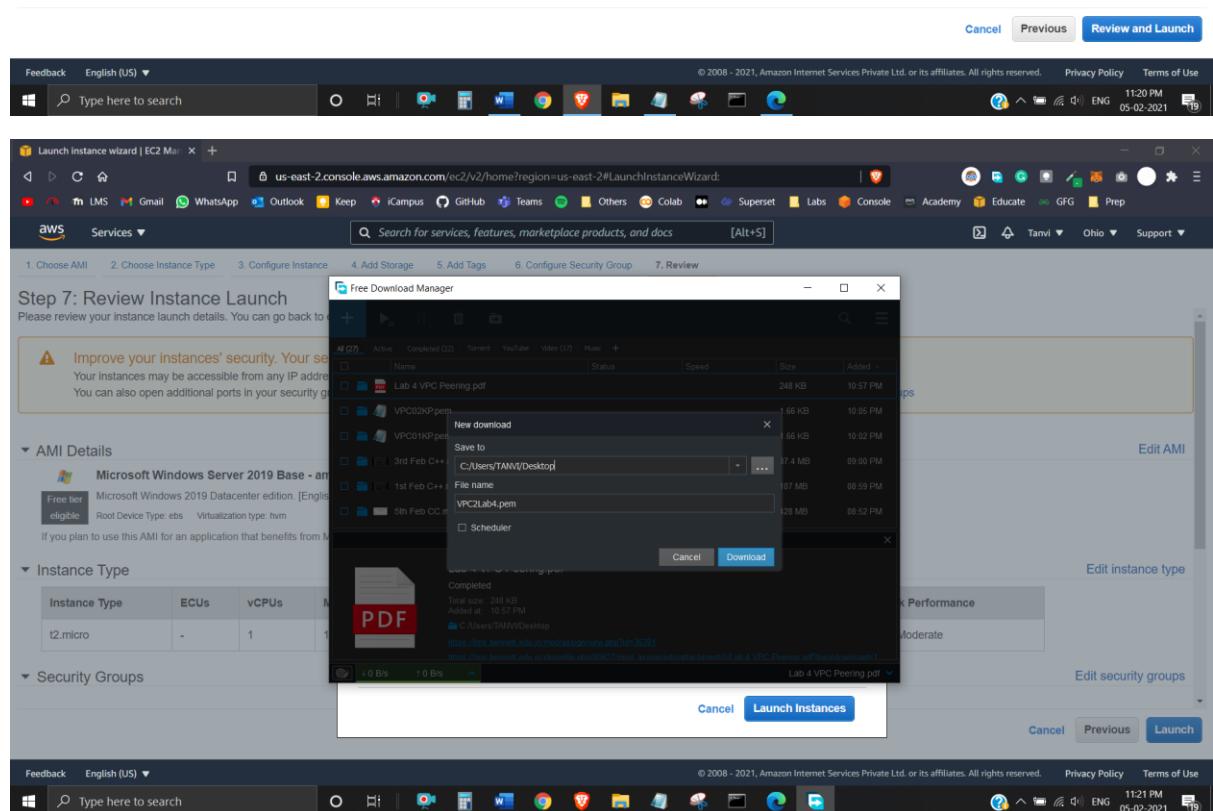
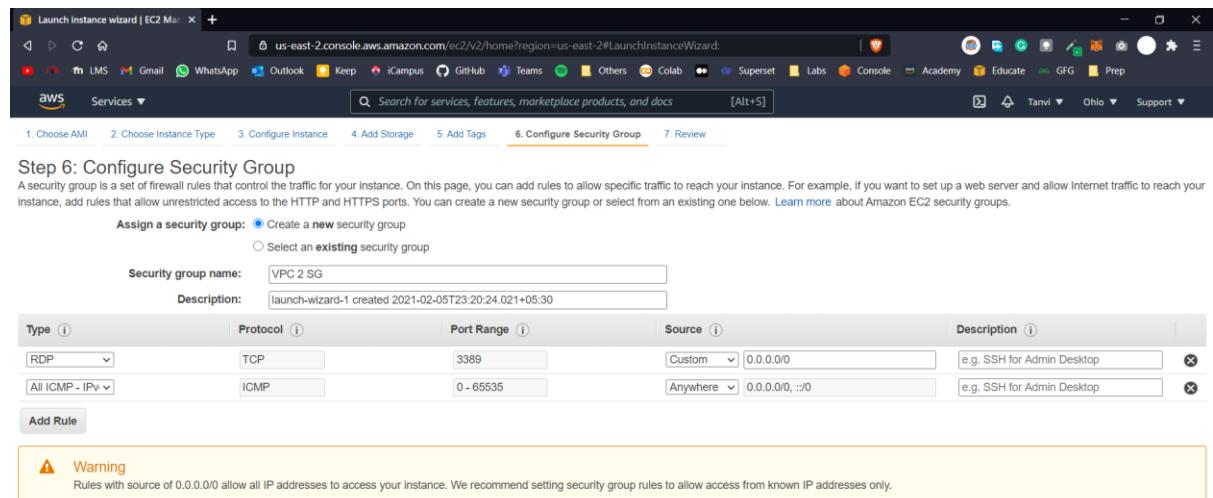
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more about free usage tier eligibility and usage restrictions.](#)

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		VPC 2 E18CSE187		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)



Edit routes | VPC Management C + console.aws.amazon.com/vpc/home?region=us-east-1#EditRoutes:routeTableId=rtb-0ffaa0448576e058

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Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.200.0.0/16	local	active	No
0.0.0.0/0	igw-0abe81b88e581932a	active	No
10.201.0.0/16	pxc-0569c35ac9f141f00		No

Add route

* Required Cancel Save routes

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Edit routes | VPC Management C + us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#EditRoutes:routeTableId=rtb-05508bc569cf9d86c

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Route Tables > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.201.0.0/16	local	active	No
0.0.0.0/0	igw-05284925cb2b8ca89	active	No
10.200.0.0/16	pxc-0569c35ac9f141f00		No

Add route

* Required Cancel Save routes

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Connect to instance | EC2 Manager

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Services ▾

EC2 Instances i-0811691e8bb2299fd Connect to instance

Connect to instance Info

Connect to your instance i-0811691e8bb2299fd (VPC 1 E18CSE187) using any of these options

Session Manager RDP client

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

[Download remote desktop file](#)

When prompted, connect to your instance using the following details:

Public IP	User name
52.91.147.29	Administrator
Password	3Ezrjq@H7KFkLtPXYBARUkPTTh7PZ;

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

VPC 1 E18CSE187 - 52.91.147.29 - Remote Desktop Connection

Recycle Bin

EC2 Feedback

EC2 Microsoft...

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Instances | EC2 Management Console

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Instances (1) Info

Filter instances Instance state: running Clear filters

Name	Instance ID	Instance State
VPC 1 E18CSE187	i-0811691e8bb2299fd	Running

Select an instance above

Windows Defender Firewall with Advanced Security

Inbound Rules

Name	Group	Profile	Enabled
Core Networking - Packet Too Big (ICMP-In)	Core Networking	All	Yes
Core Networking - Parameter Problem (IC...	Core Networking	All	Yes
Core Networking - Router Advertisement (...	Core Networking	All	Yes
Core Networking - Router Solicitation (...	Core Networking	All	Yes
Core Networking - Teredo (UDP-In)	Core Networking	All	Yes
Core Networking - Time Exceeded (ICMP...	Core Networking	All	Yes
Cortana	Cortana	Domai...	Yes
Delivery Optimization (TCP-In)	Delivery Optimization	All	Yes
Delivery Optimization (UDP-In)	Delivery Optimization	All	Yes
DIAL protocol server (HTTP-In)	DIAL protocol server	Private	Yes
DIAL protocol server (HTTP-In)	DIAL protocol server	Domain	Yes
Distributed Transaction Coordinator (RPC...	Distributed Transaction Coor...	All	No
Distributed Transaction Coordinator (RPC...	Distributed Transaction Coor...	All	No
Distributed Transaction Coordinator (TCP-L...	Distributed Transaction Coor...	All	No
File and Printer Sharing (Echo Request - IC...	File and Printer Sharing	All	Yes
File and Printer Sharing (Echo Request - IC...	File and Printer Sharing	All	No
File and Printer Sharing (LLMNR-UDP-In)	File and Printer Sharing	All	No
File and Printer Sharing (NB-Datagram-In)	File and Printer Sharing	All	No
File and Printer Sharing (NB-Name-In)	File and Printer Sharing	All	No
File and Printer Sharing (NB-Session-In)	File and Printer Sharing	All	No
File and Printer Sharing (SMB-In)	File and Printer Sharing	All	No
File and Printer Sharing (Spooler Service - ...	File and Printer Sharing	All	No
File and Printer Sharing (Spooler Service - ...	File and Printer Sharing	All	No
File and Printer Sharing over SMB3Direct (...	File and Printer Sharing over ...	All	No
iSCSI Service (TCP-In)	iSCSI Service	All	No
Key Management Service (TCP-In)	Key Management Service	All	No
mDNS (UDP-In)	mDNS	Public	Yes
mDNS (UDP-In)	mDNS	Private	Yes
mDNS (UDP-In)	mDNS	Domain	Yes
Negotiate Service (NP-In)	Negotiate Service	All	No
Negotiate Service Authz (RPC)	Negotiate Service	All	No
Network Discovery (LLMNR-UDP-In)	Network Discovery	All	No

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