

267-[NF]-Lab - Build your VPC a x Workbench - Vocareum x + labs.vocareum.com/main/main.php?m=editor&asnid=2253466&stepid=2253467&hideNavBar=1

EN-US Details AWS Start Lab End Lab 1:60

Build Your VPC and Launch a Web Server

Objectives

After completing this lab, you should be able to:

- Create a virtual private cloud (VPC)
- Create subnets
- Configure a security group
- Launch an Amazon Elastic Compute Cloud (Amazon EC2) instance into a VPC

Duration

This lab takes approximately **45 minutes** to complete.

Scenario

In this lab, you use Amazon Virtual Private Cloud (VPC) to create your own VPC and add additional components to produce a customized network for a Fortune 100 customer. You also create security groups for your EC2 instance. You then configure and customize an EC2 instance to run a web server and launch it into the VPC that looks like the following customer diagram:

Customer diagram



Search



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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Console Home | Console Home | +

us-west-2.console.aws.amazon.com/console/home?region=us-west-2#

Services Search [Alt+S]

Cloud Financial Management Compute Containers Customer Enablement Database Developer Tools End User Computing Front-end Web & Mobile Game Development Internet of Things Machine Learning Management & Governance Media Services Migration & Transfer Networking & Content Delivery Quantum Technologies Robotics Satellite AWS

AWS Cloud Map Build a dynamic map of your cloud

CloudFront Global Content Delivery Network

Direct Connect Dedicated Network Connection to AWS

Global Accelerator Improve your application's availability and performance using the AWS Global Network

AWS Private 5G Deploy and scale private mobile networks on-premises

Route 53 Scalable DNS and Domain Name Registration

Route 53 Application Recovery Controller Monitor application recovery readiness and manage failovers

VPC Isolated Cloud Resources

Reset to default layout + Add widgets Create application Find applications Description Region Originating account Go to myApplications

https://us-west-2.console.aws.amazon.com/vpc/home?region=us-west-2 © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences 28°C Haze 17:26 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | vpcs | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#vpcs:

VPC dashboard | Services | Search [Alt+S] | Actions ▾ | Create VPC | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Your VPCs (1) Info

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP o
-	vp-00d8f9d2f6dab56f0	Available	172.31.0.0/16	-	dopt-0c

Filter by VPC: Select a VPC

Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

- Network ACLs

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Select a VPC above



Services

Search

[Alt+S]



Oregon ▾

voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984 ▾

VPC settings

Resources to create [Info](#)

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

 VPC only VPC and more

Name tag - optional

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

My-VPC

IPv4 CIDR block [Info](#)

 IPv4 CIDR manual input IPAM-allocated IPv4 CIDR block

IPv4 CIDR

143.143.143.0/24

CIDR block size must be between /16 and /28.

IPv6 CIDR block [Info](#)

 No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me

Tenancy [Info](#)

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

Value - optional

 Name My-VPC Remove tag

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us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#vpcs:

VPC dashboard | Services | Search [Alt+S] | Actions ▾ | Create VPC | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984 ▾

Your VPCs (1/2) Info

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCI
-	vpc-00d8f9d2f6dab56f0	Available	172.31.0.0/16	-	dopt-
My-VPC	vpc-0e366599719f3e522	Available	143.143.143.0/24	-	dopt-

Virtual private cloud

Your VPCs

- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways
- Peering connections

Security

Network ACLs

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vpc-0e366599719f3e522 / My-VPC

Details Resource map New CIDRs Flow logs Tags Integrations

Details

VPC ID vpc-0e366599719f3e522	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0deb30025421530fa	Main route table -	Main network ACL -

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | subnets | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#subnets:

AWS Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

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

Virtual private cloud Your VPCs Subnets

Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

Security Network ACLs

Subnets (4) Info Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-0169cea316b04fd76	Available	vpc-00d8f9d2f6dab56f0	172.31.16.0/20
-	subnet-0cac1f631bd24f972	Available	vpc-00d8f9d2f6dab56f0	172.31.32.0/20
-	subnet-078175a039bb65f88	Available	vpc-00d8f9d2f6dab56f0	172.31.48.0/20
-	subnet-0bb39242c3991d9c6	Available	vpc-00d8f9d2f6dab56f0	172.31.0.0/20

Select a subnet

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | CreateSubnet | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#CreateSubnet:

AWS Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC > Subnets > Create subnet

Create subnet Info

VPC

VPC ID
Create subnets in this VPC.
vpc-0e366599719f3e522 (My-VPC)

Associated VPC CIDRs
IPv4 CIDRs
143.143.143.0/24

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.
my-subnet-01
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.

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | CreateSubnet | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#CreateSubnet:

Services Search [Alt+S]

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 VPC CIDR block [Info](#)
Choose the IPv4 VPC CIDR block to create a subnet in.

IPv4 subnet CIDR block
 64 IPs
< > ^ ^

Tags - optional

Key	Value - optional
<input type="text" value="Name"/> X	<input type="text" value="My-public-vpc"/> X

Add new tag
You can add 49 more tags.
Remove

Add new subnet

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | CreateSubnet | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#CreateSubnet:

Services Search [Alt+S]

Subnet 2 of 2

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 VPC CIDR block [Info](#)
Choose the IPv4 VPC CIDR block to create a subnet in.

IPv4 subnet CIDR block
 64 IPs
< > ^ v

Tags - optional

Key	Value - optional
<input type="text" value="Name"/> X	<input type="text" value="My-private-subnet"/> X

Add new tag
You can add 49 more tags.
Remove

Add new subnet

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | CreateSubnet | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#CreateSubnet:

Services Search [Alt+S]

Subnet 3 of 3

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 VPC CIDR block [Info](#)
Choose the IPv4 VPC CIDR block to create a subnet in.

IPv4 subnet CIDR block
 64 IPs
< > ^ v

Tags - optional

Key	Value - optional
<input type="text" value="Name"/> X	<input type="text" value="My-another-private-subnet"/> X

Add new tag
You can add 49 more tags.
Remove

Add new subnet

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Subnets | VPC Management Con +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#subnets:SubnetId=subnet-0e7e19a6df0d487c4,subnet-01a55edcc1f6fa85d,subnet-00f4c02977f687782

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

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

Virtual private cloud Your VPCs Subnets

Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

Security Network ACLs

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You have successfully created 3 subnets: subnet-0e7e19a6df0d487c4, subnet-01a55edcc1f6fa85d, subnet-00f4c02977f687782

Subnets (3) Info Actions Create subnet

Find resources by attribute or tag

Subnet ID : subnet-0e7e19a6df0d487c4 X Subnet ID : subnet-01a55edcc1f6fa85d X Subnet ID : subnet-00f4c02977f687782 X Clear filters

Name	Subnet ID	State	VPC	IPv4 CIDR
My-private-subnet	subnet-01a55edcc1f6fa85d	Available	vpc-0e366599719f3e522 My...	143.143.143.64/26
My-public-vpc	subnet-0e7e19a6df0d487c4	Available	vpc-0e366599719f3e522 My...	143.143.143.0/26
My-another-private-subnet	subnet-00f4c02977f687782	Available	vpc-0e366599719f3e522 My...	143.143.143.192/26

Select a subnet

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | igws | VPC Console

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

VPC dashboard | Services | Search [Alt+S] | Actions | Create internet gateway | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984 | Filter by VPC: Select a VPC | Virtual private cloud | Your VPCs | Subnets | Route tables | Internet gateways | Egress-only internet gateways | Carrier gateways | DHCP option sets | Elastic IPs | Managed prefix lists | Endpoints | Endpoint services | NAT gateways | Peering connections | Security | Network ACLs

Internet gateways (1) | Info | Actions | Create internet gateway | Search | Filter by VPC: Select a VPC | Virtual private cloud | Your VPCs | Subnets | Route tables | Internet gateways | Egress-only internet gateways | Carrier gateways | DHCP option sets | Elastic IPs | Managed prefix lists | Endpoints | Endpoint services | NAT gateways | Peering connections | Security | Network ACLs

Name	Internet gateway ID	State	VPC ID	Owner
-	igw-017e204fa18afe636	Attached	vpc-00d8f9d2f6dab56f0	760164234984

Select an internet gateway above

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Create internet gateway | VPC M +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#CreateInternetGateway:

Services Search [Alt+S]

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.

My-Internet_gateway

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 My-Internet_gateway X Remove

Add new tag

You can add 49 more tags.

Cancel **Create internet gateway**

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | InternetGateway | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#InternetGateway:internetGatewayId=igw-0cbb9eddef7fc131f

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

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

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

Security Network ACLs

The following internet gateway was created: igw-0cbb9eddef7fc131f - My-Internet_gateway. You can now attach to a VPC to enable the VPC to communicate with the internet. Attach to a VPC

VPC > Internet_gateways > igw-0cbb9eddef7fc131f

igw-0cbb9eddef7fc131f / My-Internet_gateway

Details Info

Internet gateway ID igw-0cbb9eddef7fc131f	State Detached	VPC ID -	Owner 760164234984
--	-------------------	-------------	-----------------------

Actions ▲

Attach to VPC
Detach from VPC
Manage tags
Delete

Tags

Search tags

Key	Value
Name	My-Internet_gateway

Manage tags

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Attach internet gateway | VPC M +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#AttachInternetGateway:internetGatewayId=igw-0cbb9eddef7fc131f

AWS Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC > Internet_gateways > Attach to VPC (igw-0cbb9eddef7fc131f)

Attach to VPC (igw-0cbb9eddef7fc131f) 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.

Q X

▶ AWS Command Line Interface command

Cancel **Attach internet gateway**

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | RouteTables | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTables:

VPC dashboard | Services | Search [Alt+S] | Actions | Create route table | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC dashboard | EC2 Global View | Filter by VPC: Select a VPC | Virtual private cloud | Your VPCs | Subnets | Route tables | Internet gateways | Egress-only internet gateways | Carrier gateways | DHCP option sets | Elastic IPs | Managed prefix lists | Endpoints | Endpoint services | NAT gateways | Peering connections | Security | Network ACLs

Route tables (3) | Info | Find resources by attribute or tag

Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC
-	rtb-0b180456eaf5ef29d	-	-	Yes	vpc-09a95f428d8d4c32
-	rtb-04b7917604c623ba1	-	-	Yes	vpc-00d8f9d2f6dab56fc
-	rtb-05476f6f69ea5f08e	-	-	Yes	vpc-0e366599719f3e52

Select a route table

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | CreateRouteTable | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#CreateRouteTable:

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984 ▾

VPC > Route tables > Create route table

Create route table Info

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

Route table settings

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

My-routeTable

VPC
The VPC to use for this route table.

vpc-0e366599719f3e522 (My-VPC)

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 Value - *optional*

Name My-routeTable Remove

Add new tag

You can add 49 more tags.

Cancel Create route table

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | RouteTableDetails | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTableDetails:RouteTableId=rtb-05e1d0af699e7a909

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

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

Virtual private cloud Your VPCs Subnets **Route tables** Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

Security Network ACLs

VPC > Route tables > rtb-05e1d0af699e7a909

rtb-05e1d0af699e7a909 / My-routeTable

Actions

Details Info

Route table ID rtb-05e1d0af699e7a909	Main No	Explicit subnet associations -	Edge associations -
VPC vpc-0e366599719f3e522 My-VPC	Owner ID 760164234984		

Routes Subnet associations Edge associations Route propagation Tags

Routes (1)

Filter routes		Both	Edit routes
Destination	Target	Status	Propagated
143.143.143.0/24	local	Active	No

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | EditRoutes | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#EditRoutes:RouteTableId=rtb-05e1d0af699e7a909

AWS Services Search [Alt+S] Oregon vclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC > Route tables > rtb-05e1d0af699e7a909 > Edit routes

Edit routes

Destination	Target	Status	Propagated
143.143.143.0/24	local	Active	No
0.0.0.0/0	Internet Gateway	-	No

Add route Remove

Cancel Preview Save changes

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | RouteTableDetails | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTableDetails:RouteTableId=rtb-05e1d0af699e7a909

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

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

Virtual private cloud Your VPCs Subnets **Route tables** Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

Security Network ACLs

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Search

RouteTableDetails | VPC Console

VPC > Route tables > rtb-05e1d0af699e7a909

rtb-05e1d0af699e7a909 / My-routeTable

Actions

Details Info

Route table ID rtb-05e1d0af699e7a909	Main <input checked="" type="checkbox"/> No	Explicit subnet associations -	Edge associations -
VPC vpc-0e366599719f3e522 My-VPC	Owner ID 760164234984		

Routes Subnet associations Edge associations Route propagation Tags

Explicit subnet associations (0)

Edit subnet associations

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
No subnet associations			

You do not have any subnet associations.

Subnets without explicit associations (3)

Edit subnet associations

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | EditRouteTableSubnetAssociations | +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#EditRouteTableSubnetAssociations:RouteTableId=rtb-05e1d0af699e7a909

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC > Route tables > rtb-05e1d0af699e7a909 > Edit subnet associations

Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (1/3)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/> My-private-subnet	subnet-01a55edcc1f6fa85d	143.143.143.64/26	-	Main (rtb-05476f6f69ea5f08e)
<input checked="" type="checkbox"/> My-public-vpc	subnet-0e7e19a6df0d487c4	143.143.143.0/26	-	Main (rtb-05476f6f69ea5f08e)
<input type="checkbox"/> My-another-private-subnet	subnet-00f4c02977f687782	143.143.143.192/26	-	Main (rtb-05476f6f69ea5f08e)

Selected subnets

[subnet-0e7e19a6df0d487c4 / My-public-vpc](#) X

Cancel **Save associations**

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | RouteTableDetails | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTableDetails:RouteTableId=rtb-05e1d0af699e7a909

VPC dashboard | Services | Search [Alt+S] | Oregon | vclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984 | More

You have successfully updated subnet associations for rtb-05e1d0af699e7a909 / My-routeTable.

Route table ID: rtb-05e1d0af699e7a909 | Main: No | Explicit subnet associations: subnet-0e7e19a6df0d487c4 / My-public-vpc | Edge associations: -

VPC: VPC ID: VPC Name: My-VPC | Owner ID: 760164234984

Routes | Subnet associations | Edge associations | Route propagation | Tags

Explicit subnet associations (1)

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
My-public-vpc	subnet-0e7e19a6df0d487c4	143.143.143.0/26	-

Edit subnet associations

< 1 > |

Subnets without explicit associations (2)

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

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
My-private-subnet	subnet-01a55edcc1f6fa85d	143.143.143.64/26	-
My-another-private-subnet	subnet-00f4c02977f687782	143.143.143.192/26	-

Edit subnet associations

< 1 > |

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26°C Haze | Search | | 18:14 | 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | subnets | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#subnets:

VPC dashboard | Services | Search [Alt+S] | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Subnets (1/7) Info

Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-0169cea316b04fd76	Available	vpc-00d8f9d2f6dab56f0	172.31.16.0/20
-	subnet-0cac1f631bd24f972	Available	vpc-00d8f9d2f6dab56f0	172.31.32.0/20
-	subnet-078175a039bb65f88	Available	vpc-00d8f9d2f6dab56f0	172.31.48.0/20
-	subnet-0bb39242c3991d9c6	Available	vpc-00d8f9d2f6dab56f0	172.31.0.0/20
My-private-subnet	subnet-01a55edcc1f6fa85d	Available	vpc-0e366599719f3e522 My...	143.143.143.64/26
My-public-vpc	subnet-0e7e19a6df0d487c4	Available	vpc-0e366599719f3e522 My...	143.143.143.0/26
My-another-private-subnet	subnet-00f4c02977f687782	Available	vpc-0e366599719f3e522 My...	143.143.143.192/26

subnet-0e7e19a6df0d487c4 / My-public-vpc

Details | Flow logs | Route table | Network ACL | CIDR reservations | Sharing | Tags

Details

Subnet ID subnet-0e7e19a6df0d487c4	Subnet ARN arn:aws:ec2:us-west-2:760164234984:subnet/subnet-0e7e19a6df0d487c4	State Available	IPv4 CIDR 143.143.143.0/26
Available IPv4 addresses 59		Availability Zone us-west-2a	Availability Zone ID usw2-az2

https://us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#SubnetDetails:subnetId=subnet-0e7e19a6df0d487c4 © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

26°C Haze | Search | PRE | FOLDER | CHROME | Microsoft Edge | File Explorer | Task View | Task Manager | 18:16 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | SubnetDetails | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#SubnetDetails:subnetId=subnet-0e7e19a6df0d487c4

VPC Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRAMARNATH @ 7601-6423-4984

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

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs

VPC > Subnets > subnet-0e7e19a6df0d487c4

subnet-0e7e19a6df0d487c4 / My-public-vpc

Actions ▾

- Create flow log
- Edit subnet settings
- Edit IPv6 CIDRs
- Edit network ACL association
- Edit route table association
- Edit CIDR reservations
- Share subnet
- Manage tags
- Delete

Details	
Subnet ID	subnet-0e7e19a6df0d487c4
Available IPv4 addresses	59
Network border group	us-west-2
Default subnet	No
Customer-owned IPv4 pool	-
IPv6-only	No
DNS64	Disabled
Subnet ARN	arn:aws:ec2:us-west-2:760164234984:subnet/subnet-0e7e19a6df0d487c4
IPv6 CIDR	-
VPC	vpc-0e366599719f3e522 My-VPC
Auto-assign public IPv4 address	No
Outpost ID	-
Hostname type	IP name
Owner	760164234984
State	Available
Availability Zone	us-west-2a
Route table	rtb-05e1d0af699e7a909 My-routeTable
Auto-assign IPv6 address	No
IPv4 CIDR reservations	-
Resource name DNS A record	Disabled
IPv6 CIDR reservations	-
Resource name DNS AAAA record	Disabled

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | EditSubnetSettings | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#EditSubnetSettings:subnetId=subnet-0e7e19a6df0d487c4

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Edit subnet settings Info

Subnet

Subnet ID	Name
<input type="checkbox"/> subnet-0e7e19a6df0d487c4	<input type="checkbox"/> My-public-vpc

Auto-assign IP settings Info

Enable AWS to automatically assign a public IPv4 or IPv6 address to a new primary network interface for an instance in this subnet.

Enable auto-assign public IPv4 address Info

Enable auto-assign customer-owned IPv4 address Info
Option disabled because no customer owned pools found.

Resource-based name (RBN) settings Info

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

Enable resource name DNS A record on launch Info

Enable resource name DNS AAAA record on launch Info

Hostname type Info

Resource name

IP name

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | subnets | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#subnets:

Services Search [Alt+S]

VPC C EC2 C Filter Select

Recently visited Favorites All services

Analytics Application Integration Blockchain Business Applications Cloud Financial Management Compute Containers Customer Enablement Database Developer Tools End User Computing Front-end Web & Mobile Game Development

Subnets

Virtual Private Cloud Your VPCs Subnets Route Tables Internet Gateways Egress Gateways Carriers DHCP Options Elastic IP Addresses Managed Metrics Customer Metrics Endpoints NAT Gateways Peering Connections Security Groups Network ACLs

Recently visited

Console Home View resource insights, service shortcuts, and feature updates

EC2 Virtual Servers in the Cloud

VPC IPv4 CIDR

VPC	IPv4 CIDR
vpc-00d8f9d2f6dab56f0	172.31.16.0/20
vpc-00d8f9d2f6dab56f0	172.31.32.0/20
vpc-00d8f9d2f6dab56f0	172.31.48.0/20
vpc-00d8f9d2f6dab56f0	172.31.0.0/20
vpc-0e366599719f3e522 My...	143.143.143.64/26
vpc-0e366599719f3e522 My...	143.143.143.0/26
vpc-0e366599719f3e522 My...	143.143.143.192/26

Tags

IPv4 CIDR: 143.143.143.0/26
Availability Zone ID: usw2-az2

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26°C Haze 18:17 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Instances | EC2 | us-west-2

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:v=3;\$case=true%5C,client:false;\$regex=tags:false%5C,client:false

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager

Instances Info Find Instance by attribute or tag (case-sensitive) Connect Instance state Actions Launch instances

No instances You do not have any instances in this region Launch instances

Select an instance

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25°C Haze 18:18 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Launch an instance | EC2 | us-west-2 #LaunchInstances: us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Name: My-WebServer Add additional tags

▼ Application and OS Images (Amazon Machine Image) [Info](#)

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

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

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Li Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Microsoft Windows Server 2022 Base ami-091f300417a06d788 (64-bit (x86)) Virtualization: hvm ENA enabled: true Root device type: ebs Free tier eligible

▼ Summary

Number of instances [Info](#): 1

Software Image (AMI): Microsoft Windows Server 2022 ... [read more](#) ami-091f300417a06d788

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance [Learn more on free tier AMIs per year](#)

Cancel Launch instance Review commands

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25°C Haze Search 18:19 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Launch an instance | EC2 | us-west-2 #LaunchInstances: us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Instance type Info Get advice

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0116 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand RHEL base pricing: 0.0716 USD per Hour

Additional costs apply for AMIs with pre-installed software

Key pair (login) Info

You can use a key pair to securely connect to your instance before you launch the instance.

Key pair name - required

Select

For Windows instances, you use a key pair to decrypt the administrator password for your instance.

Network settings Info

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Breaking news Get caught up

Search

Create key pair

Key pair name My-WebServer-keyPair

Key pairs allow you to connect to your instance securely. The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type RSA

RSA RSA encrypted private and public key pair

ED25519 ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format .pem

.pem For use with OpenSSH

.ppk For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Cancel Create key pair

Launch instance Review commands

18:19 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Launch an instance | EC2 | us-west-2#LaunchInstances: us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Network settings

VPC - required [Info](#)
vpc-0e366599719f3e522 (My-VPC)
143.143.143.0/24

Subnet [Info](#)
subnet-0e7e19a6df0d487c4 My-public-vpc
VPC: vpc-0e366599719f3e522 Owner: 760164234984
Availability Zone: us-west-2a IP addresses available: 59 CIDR: 143.143.143.0/26

Create new subnet [Info](#)

Auto-assign public IP [Info](#)
Enable

Firewall (security groups) [Info](#)
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required
launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#@[]+=;&;!\$*

Description - required [Info](#)
launch-wizard-1 created 2023-12-10T12:48:51.991Z

Inbound Security Group Rules

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Microsoft Windows Server 2022 ...[read more](#)
ami-091f300417a06d788

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month

Cancel [Launch instance](#) Review commands

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Breaking news Get caught up

Search 18:20 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Instances | EC2 | us-west-2 | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:

aws Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager

Instances (1/1) Info Find Instance by attribute or tag (case-sensitive)

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS

My-WebServer i-0f04479f79fdede44 Running t2.micro - us-west-2a -

Instance: i-0f04479f79fdede44 (My-WebServer)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID: i-0f04479f79fdede44 (My-WebServer)
IPv6 address: -
Hostname type: IP name: ip-143-143-143-9.us-west-2.compute.internal

Public IPv4 address: 52.89.97.213 [open address]
Private IP DNS name (IPv4 only): ip-143-143-143-9.us-west-2.compute.internal

Instance state: Running
Private IPv4 addresses: 143.143.143.9
Public IPv4 DNS: -

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25°C Haze 18:29 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Connect to instance | EC2 | us-west-2 | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#ConnectToInstance:instanceId=i-0f04479f79fdede44

Services Search [Alt+S] Oregon ▾ 1-6423-4984 ▾

Session Manager RDP client EC2 serial console

Instance ID i-0f04479f79fdede44 (My-WebServer)

Connection Type

Connect using RDP client
Download a file to use with your RDP client and retrieve your password.

Connect using Fleet Manager
To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)

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 52.89.97.213 User name Administrator

Password [Get password](#)

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

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25°C Haze 18:30 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Connect to instance | EC2 | us-west-2 | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#ConnectToInstance:instanceId=i-0f04479f79fdede44

Services Search [Alt+S] Oregon vocabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Session Manager RDP client EC2 serial console

Instance ID i-0f04479f79fdede44 (My-WebServer)

Connection Type

Connect using RDP client
Download a file to use with your RDP client and retrieve your password.

Connect using Fleet Manager
To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)

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 52.0.0.27.217 Password copied

User name Administrator

Y(J\$JNJ?-tFMT4?w3w&qEccNn%ZgriP

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

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25°C Haze 18:30 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Instances | EC2 | us-west-2

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:v=3;\$case=true%5C;client:false;\$regex=tags:false%5C;client:false

Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager

Instances (1) Info Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
My-WebServer	i-0f04479f79fdede44	Running	t2.micro			us-west-2a	-

Select an instance

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | EC2 | us-west-2

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:

Services Search [Alt+S]

following the simple steps below.

Name and tags [Info](#)

Name
My-private-webServer [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

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

[Search our full catalog including 1000s of application and OS images](#)

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Li [Browse more AMIs](#)
aws Mac ubuntu Microsoft Red Hat SUSE

Amazon Machine Image (AMI)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Microsoft Windows Server 2022 ...[read more](#)
ami-091f300417a06d788

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance [Learn more on free tier AMIs per Region](#)

Cancel [Launch instance](#) Review commands

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25°C Haze  Search        

18:34 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | EC2 | us-west-2

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:

Services Search [Alt+S]

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Select

Search icon

Proceed without a key pair (Not recommended) Default value

vockey Type: rsa

My-WebServer-keyPair Type: rsa

Network Info

vpc-00d8f9d2f6dab56f0

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

We'll create a new security group called 'launch-wizard-2' with the following rules:

Summary

Number of instances 1

Software Image (AMI) Microsoft Windows Server 2022 ...read more ami-091f300417a06d788

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month

Cancel Launch instance Review commands

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25°C Haze

Search PRE

18:34 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | EC2 | us-west-2

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:

Services Search [Alt+S]

VPC - required Info

vpc-0e366599719f3e522 (My-VPC)
143.143.143.0/24

Subnet Info

subnet-01a55edcc1f6fa85d My-private-subnet
VPC: vpc-0e366599719f3e522 Owner: 760164234984 Availability Zone: us-west-2b IP addresses available: 59 CIDR: 143.143.143.64/26

Create new subnet

Auto-assign public IP Info

Disable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required

launch-wizard-2

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/()#,@[]+=;&:;"\$*

Description - required Info

launch-wizard-2 created 2023-12-10T13:03:14.474Z

Inbound Security Group Rules

Summary

Number of instances Info

1

Software Image (AMI)

Microsoft Windows Server 2022 ...read more
ami-091f300417a06d788

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 30 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per year

Cancel Launch instance Review commands

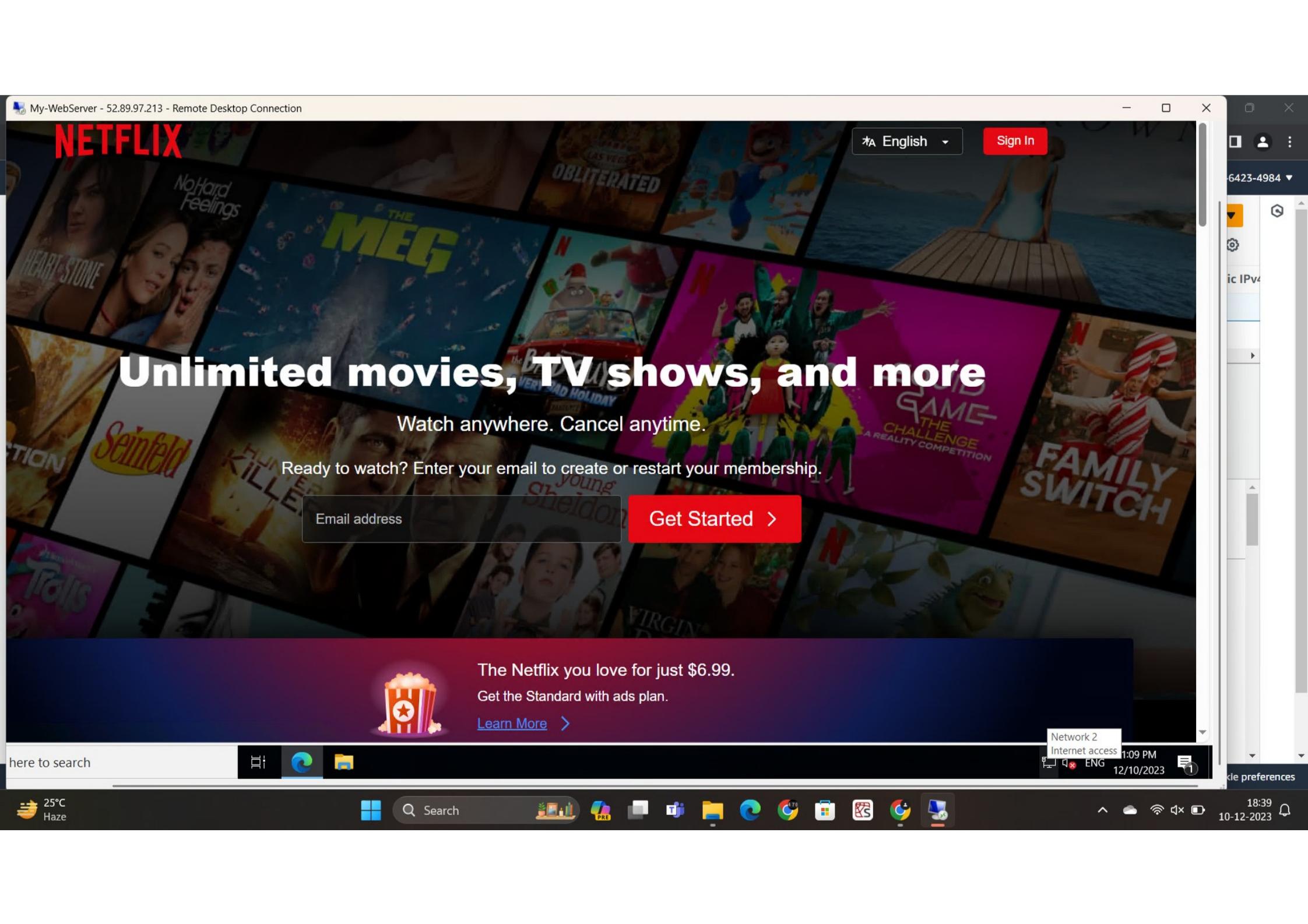
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25°C Haze

Search PRE

18:34 10-12-2023

My-WebServer - 52.89.97.213 - Remote Desktop Connection



The image shows a screenshot of the Netflix homepage viewed via a Remote Desktop Connection. The page features a collage of movie and TV show posters from various genres. A prominent white banner in the center reads "Unlimited movies, TV shows, and more". Below it, the text "Watch anywhere. Cancel anytime." is displayed. A red "Get Started >" button is positioned next to a text input field labeled "Email address". At the bottom of the page, there's a promotional offer for \$6.99 per month, featuring a popcorn icon and the text "The Netflix you love for just \$6.99. Get the Standard with ads plan." A "Learn More >" link is also present. The browser interface includes a search bar at the top, a taskbar with various icons at the bottom, and a system tray with network information and date/time.

NETFLIX

English Sign In

No Hard Feelings

HEARTSTONE

THE MEG

OBITERATED

MARIO

W

Unlimited movies, TV shows, and more

Watch anywhere. Cancel anytime.

Email address

Get Started >

The Netflix you love for just \$6.99.
Get the Standard with ads plan.

Learn More >

here to search

Network 2 Internet access 1:09 PM ENG 12/10/2023

25°C Haze

Search

PRE

18:39 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Instances | EC2 | us-west-2 | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:v=3;\$case=true%5C,client:false;\$regex=tags:false%5C,client:false

Services Search [Alt+S] | EC2 Dashboard | EC2 Global View | Events | Instances | Instances | Instance Types | Launch Templates | Spot Requests | Savings Plans | Reserved Instances | Dedicated Hosts | Capacity Reservations | New | Images | AMIs | AMI Catalog | Elastic Block Store | Volumes | Snapshots | Lifecycle Manager

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input checked="" type="checkbox"/> My-private-we...	i-0bf6c2a996ad3bcbd	Running	t2.micro	-	-	us-west-2b	-
<input type="checkbox"/> My-WebServer	i-0f04479f79fdede44	Running	t2.micro	-	-	us-west-2a	-

Instance: i-0bf6c2a996ad3bcbd (My-private-webServer)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary

Instance ID: i-0bf6c2a996ad3bcbd (My-private-webServer)

IPv6 address: -

Hostname type: IP name: ip-143-143-143-99.us-west-2.compute.internal

Public IPv4 address: -

Instance state: Running

Private IP DNS name (IPv4 only): ip-143-143-143-99.us-west-2.compute.internal

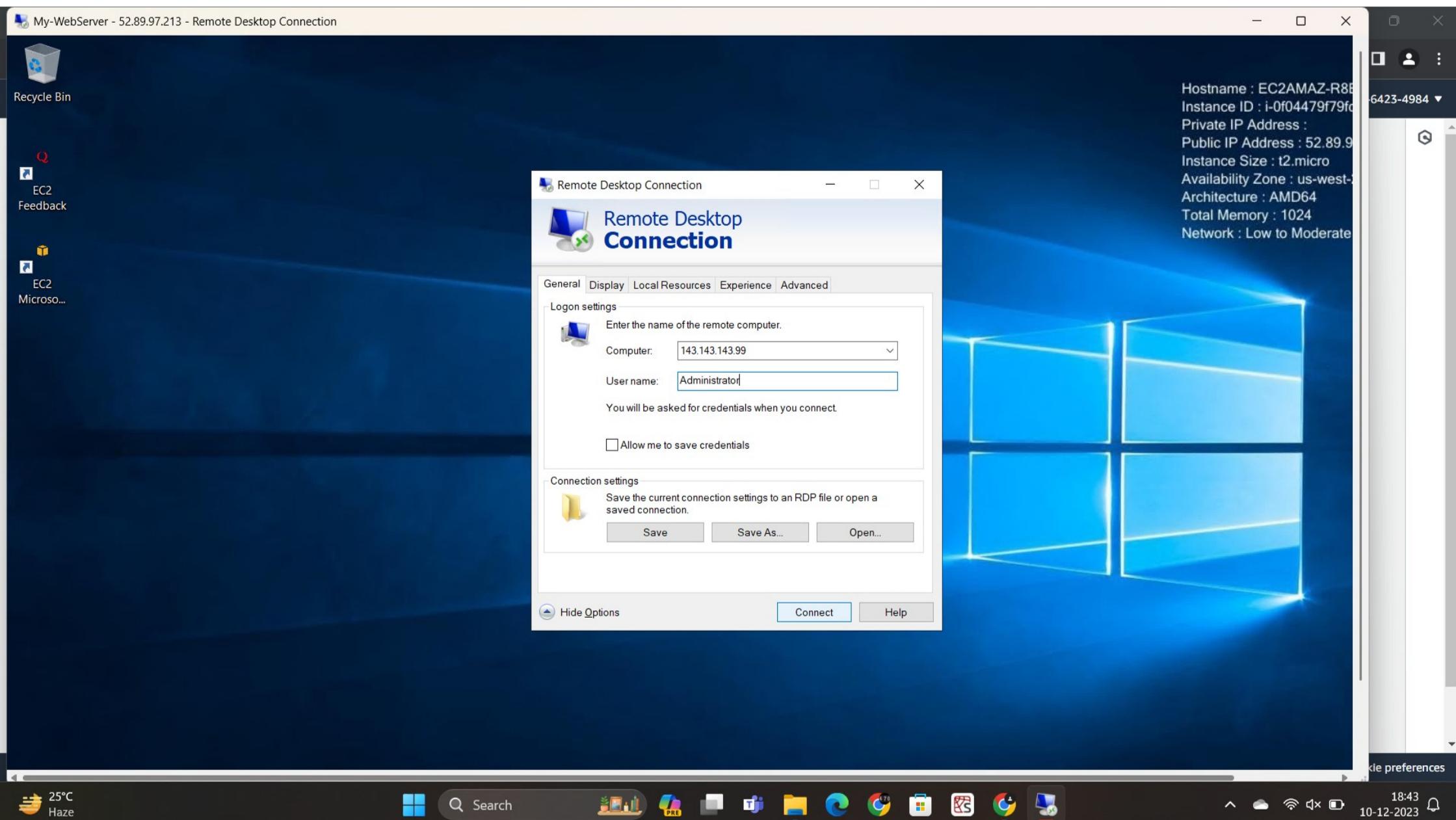
Private IPv4 address copied

143.143.143.99

Public IPv4 DNS: -

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25°C Haze 18:41 10-12-2023



267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Connect to instance | EC2 | us-west-2 | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#ConnectToInstance:instanceId=i-0bf6c2a996ad3bcbd

Services Search [Alt+S]

i-0bf6c2a996ad3bcbd (My-private-webServer)

Connection Type

Connect using RDP client
Download a file to use with your RDP client and retrieve your password.

Connect using Fleet Manager
To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)

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:

Private IP: 1.17.1.17.00
 Password copied
 L.UpD&gS&g)WR%ik&t7(lh8K!JaU6WC(

User name: Administrator

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

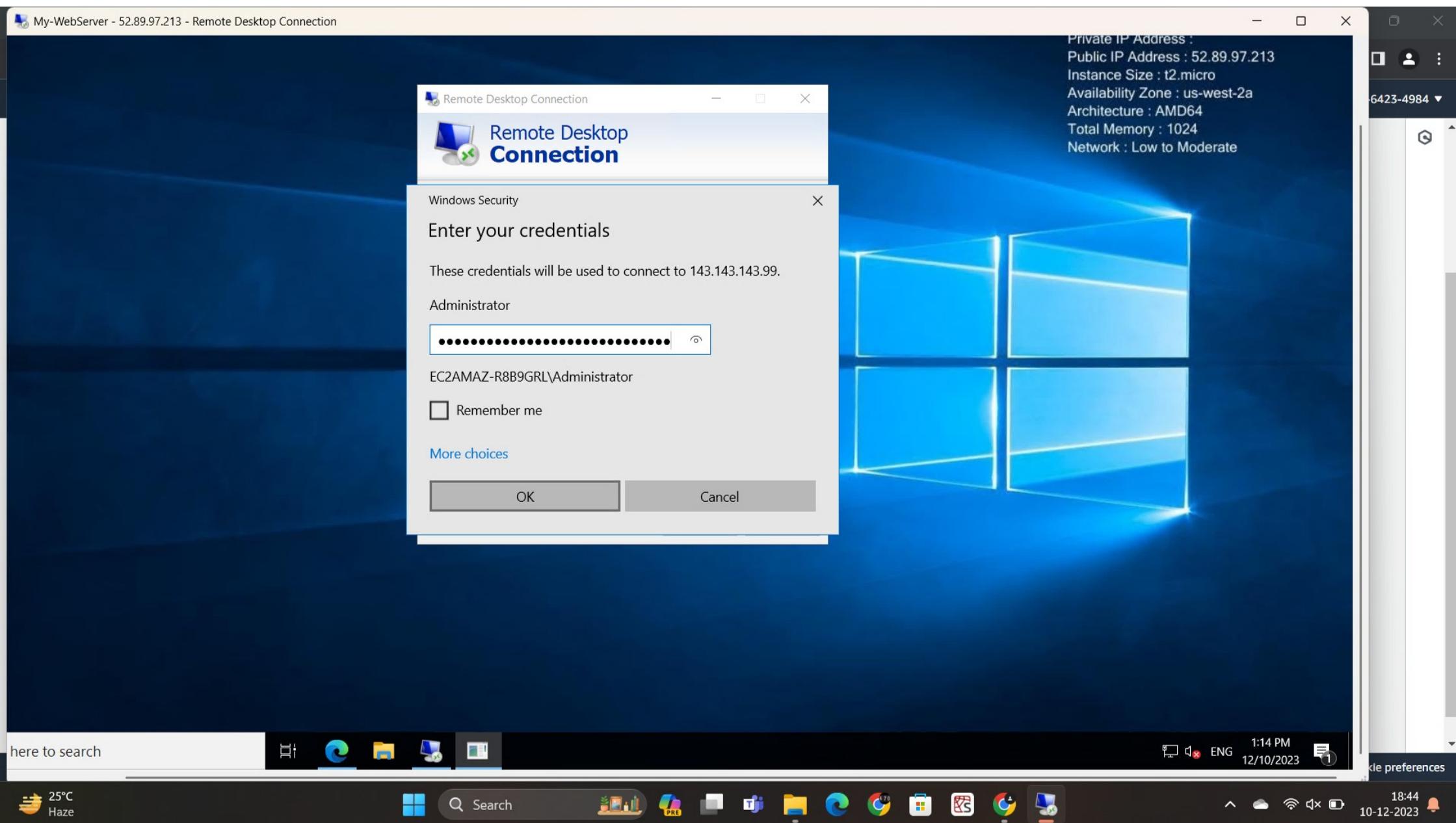
Cancel

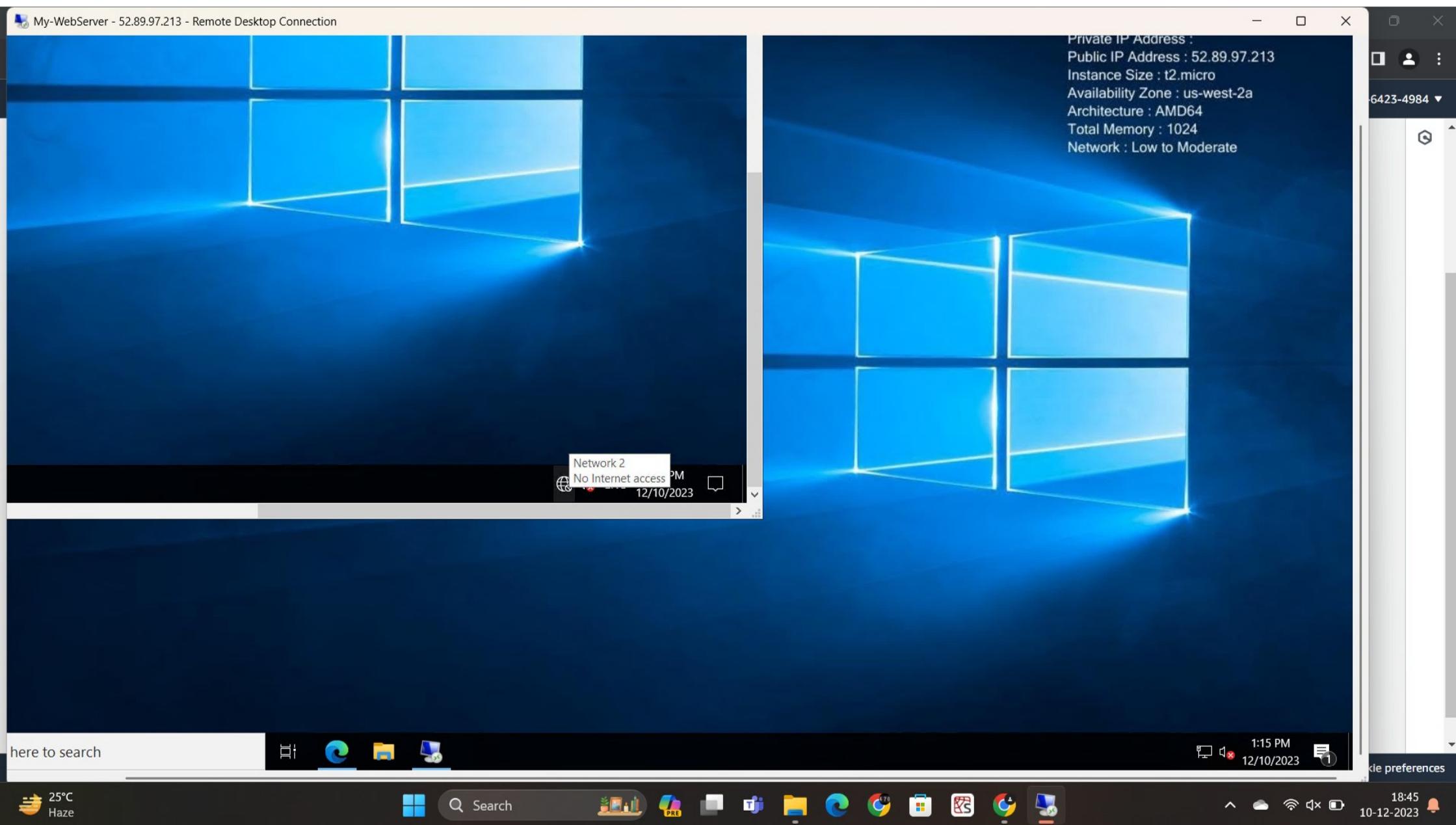
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25°C Haze

Search PRE

18:43 10-12-2023





267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | NatGateways | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#NatGateways:

NAT gateways Info

Filter NAT gateways

Name NAT gateway ID Connectiv... State State message Primary public I... Primary priv...

No NAT gateway

Select a NAT gateway

VPC dashboard

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

- Your VPCs
- Subnets
- Route tables
- Internet gateways
- Egress-only internet gateways
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- Endpoints
- Endpoint services
- NAT gateways**
- Peering connections

Security

Network ACLs

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25°C Haze

18:47 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | CreateNatGateway | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#CreateNatGateway:

aws Services Search [Alt+S] Oregon vocabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Create NAT gateway Info

A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.

NAT gateway settings

Name - optional
Create a tag with a key of 'Name' and a value that you specify.
 [Alt+S]
The name can be up to 256 characters long.

Subnet
Select a subnet in which to create the NAT gateway.

Connectivity type
Select a connectivity type for the NAT gateway.
 Public
 Private

Elastic IP allocation ID Info
Assign an Elastic IP address to the NAT gateway.
 [Alt+S]

Additional settings Info

Tags

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25°C Haze  Search                    18:48 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | CreateNatGateway | VPC Consol... +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#CreateNatGateway:

Elastic IP address 52.34.237.53 (eipalloc-025a3b7f5ac5a8ac6) allocated.

Create NAT gateway Info

A highly available, managed Network Address Translation (NAT) service that instances in private subnets can use to connect to services in other VPCs, on-premises networks, or the internet.

NAT gateway settings

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

My-natGaeway

The name can be up to 256 characters long.

Subnet
Select a subnet in which to create the NAT gateway.

subnet-0e7e19a6df0d487c4 (My-public-vpc)

Connectivity type
Select a connectivity type for the NAT gateway.

Public
 Private

Elastic IP allocation ID Info
Assign an Elastic IP address to the NAT gateway.

eipalloc-025a3b7f5ac5a8ac6

Allocate Elastic IP

Additional settings Info

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267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | RouteTables | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTables:

VPC dashboard | Services | Search [Alt+S] | Actions | Create route table | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Route tables (1/3) | Info | Find resources by attribute or tag | Actions | Create route table | < 1 > | Filter by VPC: Select a VPC | Own... |

Route table ID	Explicit subnet associations	Edge associations	Main	VPC	Own...
rtb-05476f6f69ea5f08e	-	-	Yes	vpc-0e366599719f3e522 My-VPC	760164...
rtb-05e1d0af699e7a909	subnet-0e7e19a6df0d487c4 / My-public-vpc	-	No	vpc-0e366599719f3e522 My-VPC	760164...
rtb-04b7917604c623ba1	-	-	Yes	vpc-00d8f9d2f6dab56f0	760164...

Virtual private cloud | Your VPCs | Subnets | Route tables | Internet gateways | Egress-only internet gateways | Carrier gateways | DHCP option sets | Elastic IPs | Managed prefix lists | Endpoints | Endpoint services | NAT gateways | Peering connections

Security | Network ACLs

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Breaking news | Get caught up | Search | PRE | T1 | F1 | C1 | G1 | R1 | 18:50 | 10-12-2023

rtb-05476f6f69ea5f08e

Details | Routes | Subnet associations | Edge associations | Route propagation | Tags

Details

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-05476f6f69ea5f08e	Yes	-	-
VPC	Owner ID		

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | RouteTables | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTables:

VPC dashboard | Services | Search [Alt+S] | Actions | Create route table | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC dashboard | EC2 Global View | Filter by VPC: Select a VPC | Virtual private cloud | Your VPCs | Subnets | Route tables | Internet gateways | Egress-only internet gateways | Carrier gateways | DHCP option sets | Elastic IPs | Managed prefix lists | Endpoints | Endpoint services | NAT gateways | Peering connections | Security | Network ACLs

Route tables (1/3) | Info | Find resources by attribute or tag

Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC
<input checked="" type="checkbox"/> Edit Name Main-routingTable	rtb-05476f6f69ea5f08e	-	-	Yes	vpc-0e361
<input type="checkbox"/> My-ro	rtb-05e1d0af699e7a909	subnet-0e7e19a6df0d487c4 / My-public-vpc	-	No	vpc-0e361
<input type="checkbox"/> -	rtb-04b7917604c623ba1	-	-	Yes	vpc-00d8

Cancel | Save | Save

rtb-05476f6f69ea5f08e

Details | Routes | Subnet associations | Edge associations | Route propagation | Tags

Details

Route table ID	Main	Explicit subnet associations	Edge associations
rtb-05476f6f69ea5f08e	Yes	-	-
VPC	Owner ID		

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CloudShell | Feedback | Breaking news | Get caught up | Search | PRE | T1 | F1 | C1 | G1 | R1 | 18:50 | 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | RouteTables | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTables:

VPC dashboard | Services | Search [Alt+S] | Actions | Create route table | Oregon | vclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Route tables (1/3) | Find resources by attribute or tag | Actions | Create route table | < 1 > | Filter by VPC: Select a VPC | Virtual private cloud | Your VPCs | Subnets | Route tables | Internet gateways | Egress-only internet gateways | Carrier gateways | DHCP option sets | Elastic IPs | Managed prefix lists | Endpoints | Endpoint services | NAT gateways | Peering connections | Security | Network ACLs

Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC
<input checked="" type="checkbox"/> Main-routingTable	rtb-05476f6f69ea5f08e	-	-	Yes	vpc-0e361
<input type="checkbox"/> My-routeTable	rtb-05e1d0af699e7a909	subnet-0e7e19a6df0d487c4 / My-public-vpc	-	No	vpc-0e361
<input type="checkbox"/> -	rtb-04b7917604c623ba1	-	-	Yes	vpc-00d8

rtb-05476f6f69ea5f08e / Main-routingTable

Details | Routes | Subnet associations | Edge associations | Route propagation | Tags

Details

Route table ID	Main	Explicit subnet associations	Edge associations
<input type="checkbox"/> rtb-05476f6f69ea5f08e	<input type="checkbox"/> Yes	-	-
VPC	Owner ID		

https://us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTableDetails:RouteTableId=rtb-05476f6f69ea5f08e © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Breaking news | Get caught up | Search | PRE | T | F | G | C | R | G | 18:50 | 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | EditRoutes | VPC Console

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#EditRoutes:RouteTableId=rtb-05476f6f69ea5f08e

Services Search [Alt+S]

VPC > Route tables > rtb-05476f6f69ea5f08e > Edit routes

Edit routes

Destination	Target	Status	Propagated
143.143.143.0/24	local local	Active	No
0.0.0.0/0	NAT Gateway nat-0741ee8e590bfa2b8	-	No

Add route

Cancel Preview Save changes

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | RouteTableDetails | VPC Console +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#RouteTableDetails:RouteTableId=rtb-05476f6f69ea5f08e

Services Search [Alt+S] | Oregon | vclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC dashboard EC2 Global View Filter by VPC: Select a VPC Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs

Updated routes for rtb-05476f6f69ea5f08e / Main-routingTable successfully

Details Info

Route table ID: rtb-05476f6f69ea5f08e Main: Yes VPC: VPC-0e366599719f3e522 | My-VPC Owner ID: 760164234984 Explicit subnet associations: - Edge associations: -

Actions ▾

Details Info

Routes Subnet associations Edge associations Route propagation Tags

Both ▾ Edit routes < 1 > ▾

Filter routes

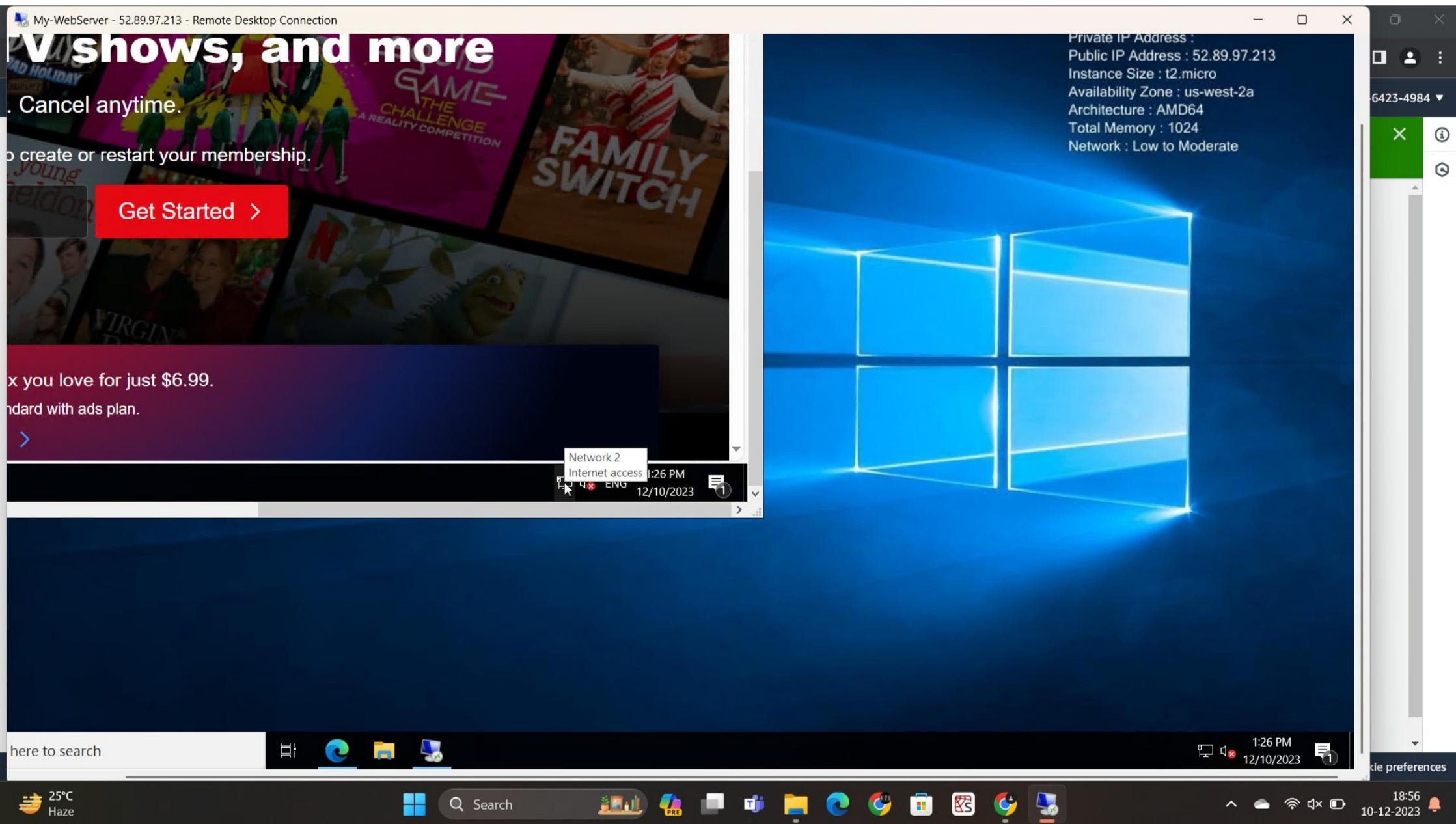
Destination	Target	Status	Propagated
0.0.0.0/0	nat-0741ee8e590bfa2b8	Active	No
143.143.143.0/24	local	Active	No

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Search PRE

18:54 10-12-2023



My-WebServer - 52.89.97.213 - Remote Desktop Connection

A screenshot of a Windows PowerShell window titled "Select Administrator: Windows PowerShell". The window shows the following text:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Administrator> Install-WindowsFeature -name Web-Server -IncludeManagementTools

Success Restart Needed Exit Code      Feature Result
-----          -----           -----
Mic True       No             Success {Common HTTP Features, Default Document, D...
```

The PowerShell window is positioned over a blurred background of a desktop environment. On the right side of the screen, there is a vertical sidebar with various icons and information, including a preview pane for a file named "6421-4984.pdf". The taskbar at the bottom of the screen displays several pinned application icons, including File Explorer, Edge, and File Manager.



25°C
Haze



 Search



 PRE



The Trello logo, which consists of a blue square containing a white letter 'T' and a blue 'j' shape.



A small blue icon of a briefcase with a handle, located in the bottom right corner of the screen.



1



267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Instances | EC2 | us-west-2 | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:v=3;\$case=true%5C;client:false;\$regex=tags:false%5C;client:false

Services Search [Alt+S] Oregon vocabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager

Instances (1/2) Info Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
My-private-we...	i-0bf6c2a996ad3bcfd	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	-
My-WebServer	i-0f04479f79fdede44	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	-

Instance: i-0f04479f79fdede44 (My-WebServer)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Instance ID: i-0f04479f79fdede44 (My-WebServer) Public IPv4 address copied
IPv6 address: - Private IPv4 addresses: 143.143.143.9
Hostname type: IP name: ip-143-143-143-9.us-west-2.compute.internal Instance state: Running Public IPv4 DNS: -
Private IP DNS name (IPv4 only): ip-143-143-143-9.us-west-2.compute.internal

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25°C Haze 19:03 10-12-2023

267-[NF]-Lab - Build your VPC a | Workbench - Vocareum | Instances | EC2 | us-west-2 | New Tab

52.89.97.213

AWS Cognizant Passport Seva, Mini... JNTUH Gmail YouTube

Gmail Images

Google

Search Google or type a URL

Dashboard OneCognizant Passport Sev... Install LAMP ... Online Stud...

Sign in – Goo... Index of /Cal... download.code Index of /far... Add shortcut

Customize Chrome

23°C Haze

Search

10-12-2023 19:43

264-[NF]-Lab - Networking reso | Workbench - Vocareum | Workbench - Vocareum | Instances | EC2 | us-west-2 | 52.89.97.213 | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Instances:v=3;\$case=true%5C,client:false;\$regex=tags:false%5C,client:false

Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager

Instances (1/2) Info Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
<input checked="" type="checkbox"/> My-WebServer	i-0f04479f79fdede44	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	-
<input type="checkbox"/> My-private-we...	i-0bf6c2a996ad3bcdb	Running	t2.micro	2/2 checks passed	No alarms	us-west-2b	-

Instance: i-0f04479f79fdede44 (My-WebServer)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0f04479f79fdede44 (My-WebServer)	52.89.97.213 open address	143.143.143.9
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Hostname type	Private IP DNS name (IPv4 only)	
IP name: ip-143-143-143-9.us-west-2.compute.internal	ip-143-143-143-9.us-west-2.compute.internal	

https://us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#InstanceDetails:instanceId=i-0f04479f79fdede44 © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

264-[NF]-Lab - Networking reso x | Workbench - Vocareum x | Workbench - Vocareum x | Instance details | EC2 | us-west-2 x | 52.89.97.213 x | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#InstanceDetails:instanceId=i-0f04479f79fdede44

aws Services Search [Alt+S]

EC2 Dashboard X

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations New

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Details Security Networking Storage Status checks Monitoring Tags

▼ Security details

IAM Role - Owner ID 760164234984 Launch time Sun Dec 10 2023 18:21:01 GMT+0530 (India Standard Time)

Security groups sg-05419cedf0546e0f6 (launch-wizard-1)

▼ Inbound rules

Name	Security group rule ID	Port range	Protocol	Source	Security group
-	sgr-026f3ae94bc34b3e4	3389	TCP	0.0.0.0/0	launch-wiza

▼ Outbound rules

Name	Security group rule ID	Port range	Protocol	Destination	Security group
-	sgr-030bfcd7fec7e3c8a	All	All	0.0.0.0/0	launch-wiza



264-[NF]-Lab - Networking reso x | Workbench - Vocareum x | Workbench - Vocareum x | ModifyInboundSecurityGroupRu x | 52.89.97.213 x | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#ModifyInboundSecurityGroupRules:securityGroupId=sg-05419cedf0546e0f6

Services Search [Alt+S]

EC2 > Security Groups > sg-05419cedf0546e0f6 - launch-wizard-1 > Edit inbound rules

Edit inbound rules Info

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

Inbound rules <small>Info</small>	Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range	Source <small>Info</small>	Description - optional <small>Info</small>	Actions
	sgr-026f3ae94bc34b3e4	RDP	TCP	3389	Custom	0.0.0.0/0 X	<input type="text"/> Delete
	sgr-0a86475204fd5d1c	HTTP	TCP	80	Custom	0.0.0.0/0 X	<input type="text"/> Delete

Add rule

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

Cancel Preview changes Save rules

264-[NF]-Lab - Networking reso x | Workbench - Vocareum x | Workbench - Vocareum x | SecurityGroup | EC2 | us-west-2 x | 52.89.97.213 x | +

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#SecurityGroup:group-id=sg-05419cedf0546e0f6

aws Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Details

Security group name	Security group ID	Description	VPC ID
launch-wizard-1	sg-05419cedf0546e0f6	launch-wizard-1 created 2023-12-10T12:48:51.991Z	vpc-0e366599719f3e522
Owner	Inbound rules count	Outbound rules count	
760164234984	2 Permission entries	1 Permission entry	

Inbound rules Outbound rules Tags

Inbound rules (2)

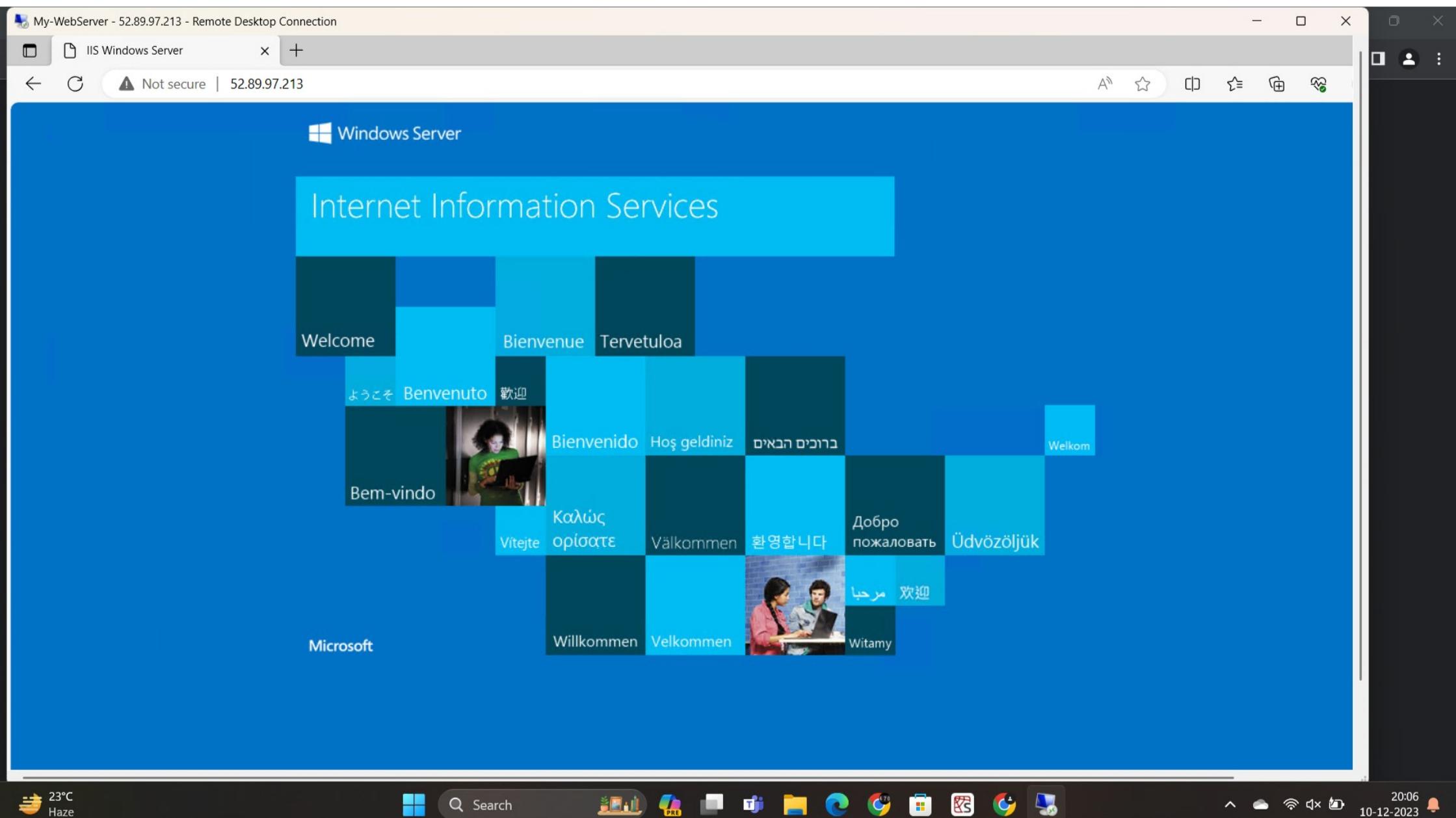
<input type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range
<input type="checkbox"/>	-	sgr-026f3ae94bc34b3e4	IPv4	RDP	TCP	3389
<input type="checkbox"/>	-	sgr-0a868475204fd5d1c	IPv4	HTTP	TCP	80

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23°C Haze

Search PRE

19:58 10-12-2023



267-[NF]-Lab - Build your VPC x | Workbench - Vocareum x | NetworkAclDetails | VPC Console x +

us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#NetworkAclDetails:networkAclId=acl-0b4be704e5490b3d0

AWS Services Search [Alt+S] Oregon voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

Filter by VPC: Select a VPC

You have successfully updated inbound rules for acl-0b4be704e5490b3d0

VPC > Network ACLs > acl-0b4be704e5490b3d0

acl-0b4be704e5490b3d0

Actions

Details Info

Network ACL ID acl-0b4be704e5490b3d0	Associated with 2 Subnets	Default Yes	VPC ID vpc-021b5361995316ea6 / My-VPC
Owner 760164234984			

Inbound rules Outbound rules Subnet associations Tags

Inbound rules (2)

Edit inbound rules

Rule number	Type	Protocol	Port range	Source	Allow/Deny
100	All traffic	All	All	0.0.0.0/0	<input checked="" type="checkbox"/> Allow
*	All traffic	All	All	0.0.0.0/0	<input type="checkbox"/> Deny

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22:18 18-12-2023

267-[NF]-Lab - Build your VPC x | Workbench - Vocareum x | EditInboundRules | VPC Console x +

us-west-2.console.aws.amazon.com/vpccconsole/home?region=us-west-2#EditInboundRules:networkAcld=acl-0b4be704e5490b3d0

AWS Services Search [Alt+S] | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC > Network ACLs > acl-0b4be704e5490b3d0 > Edit inbound rules

Edit inbound rules Info

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

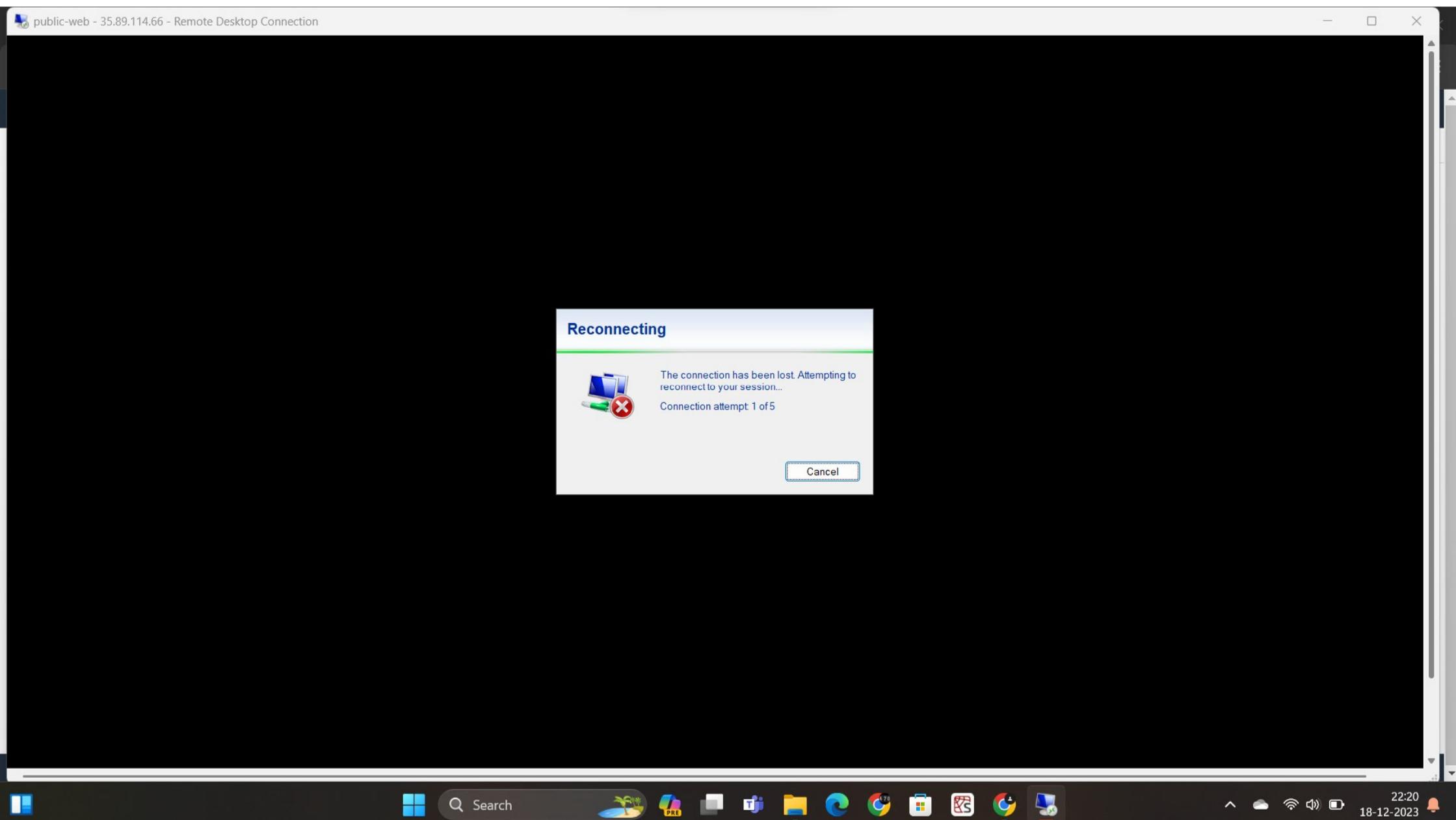
Rule number <small>Info</small>	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Allow/Deny <small>Info</small>
100	All traffic ▾	All	All	0.0.0.0/0	Deny ▲ Allow Deny <input checked="" type="checkbox"/>
*	All traffic ▾	All	All	0.0.0.0/0	

Add new rule Sort by rule number

Cancel Preview changes Save changes

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22:19 18-12-2023



267-[NF]-Lab - Build your VPC | Workbench - Vocareum | EditInboundRules | VPC Console

us-west-2.console.aws.amazon.com/vpccconsole/home?region=us-west-2#EditInboundRules:networkAcld=acl-0b4be704e5490b3d0

AWS Services Search [Alt+S] | Oregon | voclabs/user2877785=GOUNDRA_AMARNATH @ 7601-6423-4984

VPC > Network ACLs > acl-0b4be704e5490b3d0 > 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>	Actions
100	All traffic	All	All	0.0.0.0/0	Allow	<small>Remove</small>
*	All traffic	All	All	0.0.0.0/0	Deny	<small>Remove</small>

Add new rule Sort by rule number

Cancel Preview changes Save changes

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22:21 18-12-2023

