Department of Computer Science & Engineering
Premier University.

CSE 482: Contemporary Course of Computer Science

Build your VPC and Launch a Web Server

Submitted By:

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Section	**C**
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Remarks

Objectives

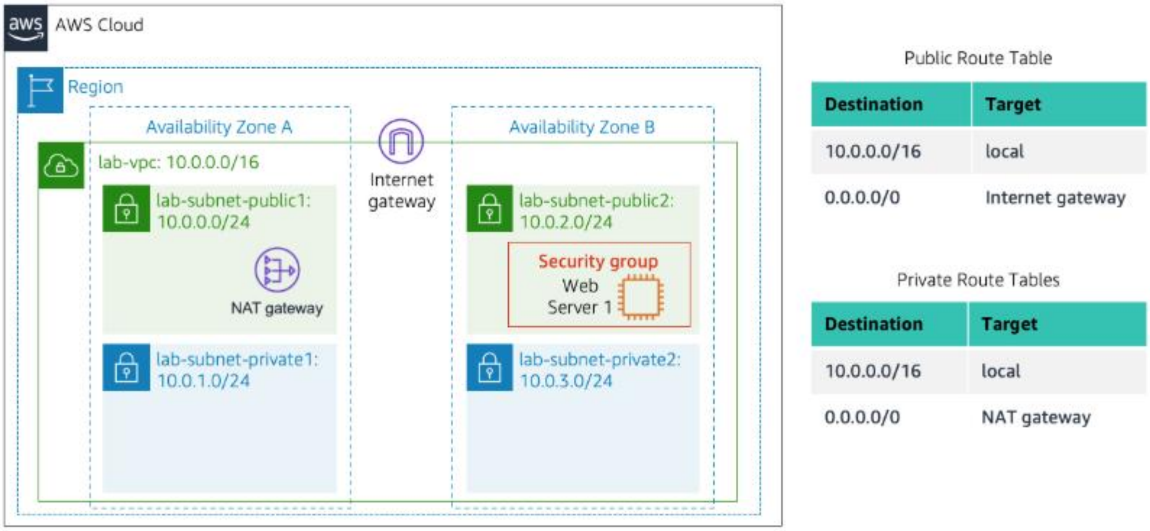
The primary objectives of this laboratory session were:

- To create a Virtual Private Cloud (VPC) within Amazon Web Services (AWS) to establish a private and secure network.
- To configure subnets, route tables, and security groups to control and secure network traffic.
- To launch a web server inside this private network.
- To verify that the web server is accessible from the public internet.

Scenario

Imagine you are working as a cloud engineer.
Your job is to build a private network where everything is isolated and protected.
Inside this private area, you need to run one web server that people on the internet can visit.

This practice is similar to how real companies launch their websites or apps in a secure cloud setup instead of putting everything directly on the open internet.



Public Route Table

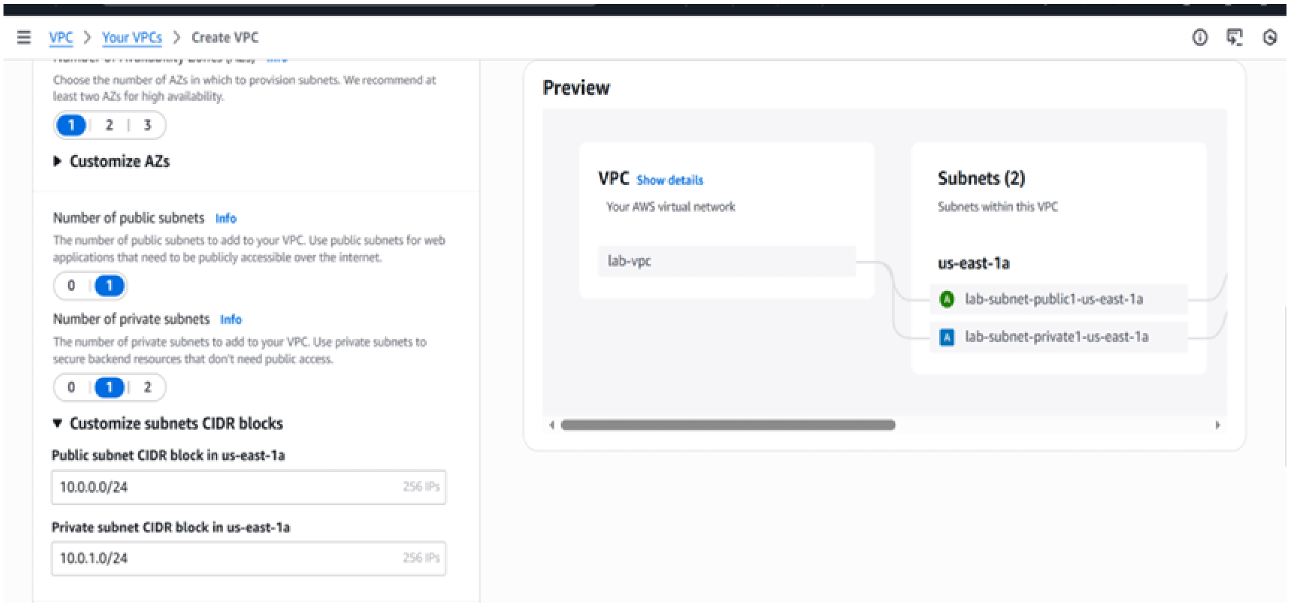
Destination	Target
10.0.0.0/16	local
0.0.0.0/0	Internet gateway

Private Route Tables

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	NAT gateway

Work Procedure

1. Open the AWS Academy Vocareum lab.
2. Make sure your temporary AWS login is active.
3. Check the region at the top right and set it to **N. Virginia (us-east-1)**.
4. Go to VPC service and choose **Create VPC** → select **VPC and more**.
5. Keep auto name on but change the name from *project* to *lab*.
6. Keep the main network range as `10.0.0.0/16`.
7. Use only **1 Availability Zone**.
8. Keep **1 public subnet** and **1 private subnet**.
9. Open the subnet CIDR settings and change:
   - Public subnet to `10.0.0.0/24`
   - Private subnet to `10.0.1.0/24`



Choose the number of AZs in which to provision subnets. We recommend at least two AZs for high availability.

[✓ 1] 2 3

▸ Customize AZs

Number of public subnets Info

The number of public subnets to add to your VPC. Use public subnets for web applications that need to be publicly accessible over the internet.

0 [✓ 1]

Number of private subnets Info

The number of private subnets to add to your VPC. Use private subnets to secure backend resources that don't need public access.

0 [✓ 1] 2

▾ Customize subnets CIDR blocks

Public subnet CIDR block in us-east-1a

10.0.0.0/24 256 IPs

Private subnet CIDR block in us-east-1a

10.0.1.0/24 256 IPs

Preview

VPC Show details

Your AWS virtual network

lab-vpc

Subnets (2)

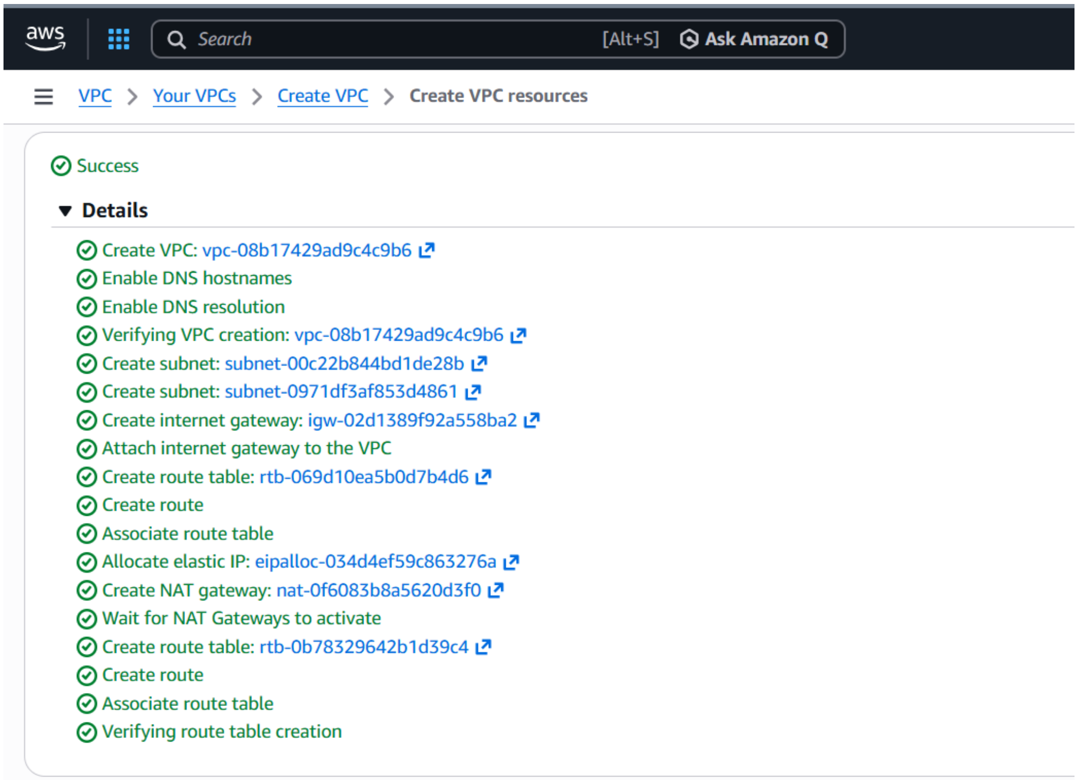
Subnets within this VPC

us-east-1a

lab-subnet-public1-us-east-1a

lab-subnet-private1-us-east-1a

10. Set NAT Gateway to **1 in one AZ**.
11. Keep VPC endpoints as **None**.
12. Leave DNS options enabled.
13. Click **Create VPC** and wait, then open the VPC page.



aws
Search [Alt+S] Ask Amazon Q
VPC > Your VPCs > Create VPC > Create VPC resources

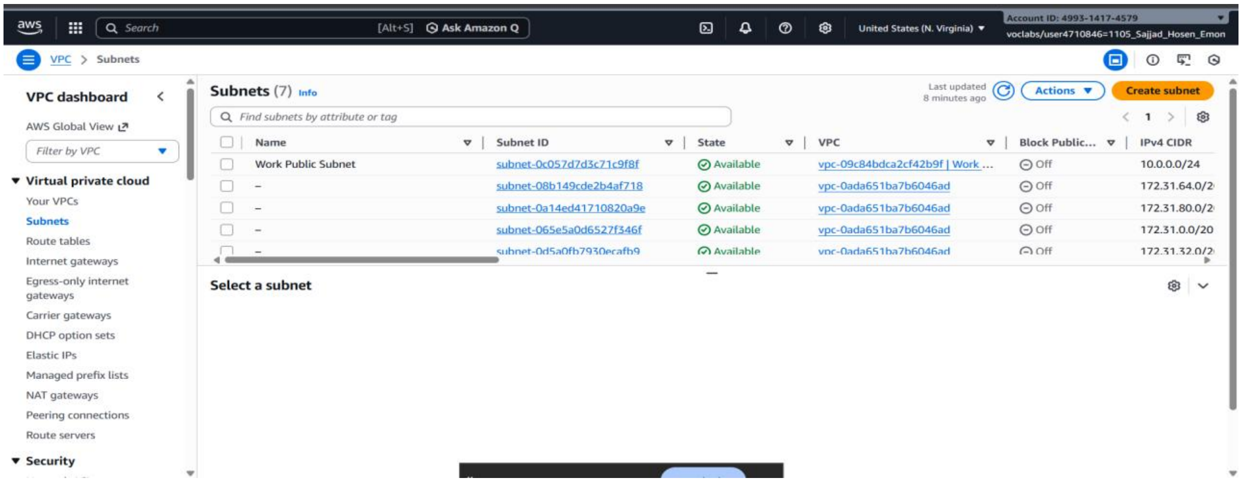
✓ Success

▾ Details

- ✓ Create VPC: vpc-08b17429ad9c4c9b6
- ✓ Enable DNS hostnames
- ✓ Enable DNS resolution
- ✓ Verifying VPC creation: vpc-08b17429ad9c4c9b6
- ✓ Create subnet: subnet-00c22b844bd1de28b
- ✓ Create subnet: subnet-0971df3af853d4861
- ✓ Create internet gateway: igw-02d1389f92a558ba2
- ✓ Attach internet gateway to the VPC
- ✓ Create route table: rtb-069d10ea5b0d7b4d6
- ✓ Create route
- ✓ Associate route table
- ✓ Allocate elastic IP: eipalloc-034d4ef59c863276a
- ✓ Create NAT gateway: nat-0f6083b8a5620d3f0
- ✓ Wait for NAT Gateways to activate
- ✓ Create route table: rtb-0b78329642b1d39c4
- ✓ Create route
- ✓ Associate route table
- ✓ Verifying route table creation

Create extra subnets

14. Once it is complete, choose View VPC.
15. Then go to subnet in left menu

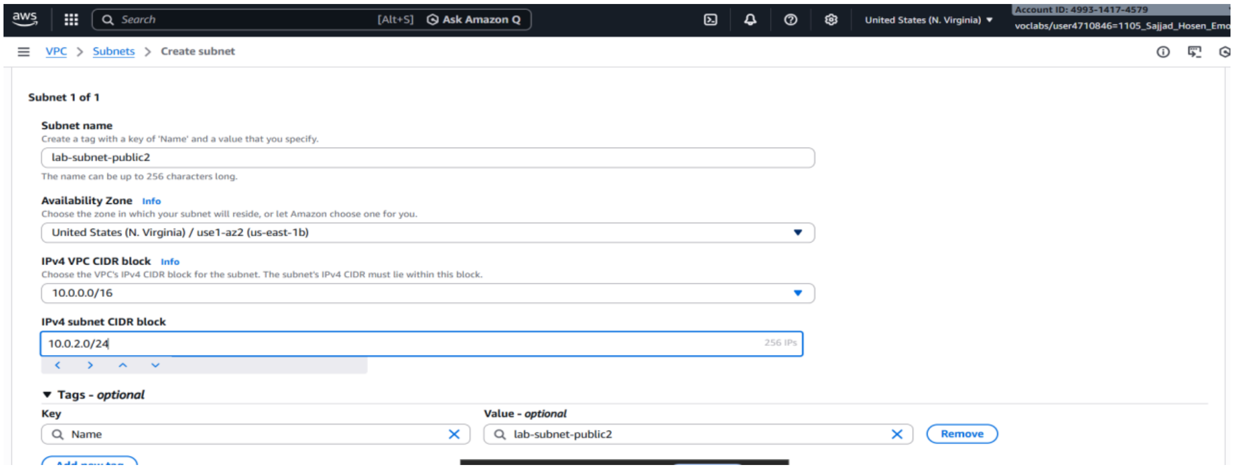


Subnets (7) Info

□	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
□	Work Public Subnet	subnet-0c057d7d3c71c9f8f	✓ Available	vpc-09c84bdca2cf42b9f | Work ...	⊝ Off	10.0.0.0/24
□	–	subnet-08b149cde2b4af718	✓ Available	vpc-0ada651ba7b6046ad	⊝ Off	172.31.64.0/2
□	–	subnet-0a14ed41710820a9e	✓ Available	vpc-0ada651ba7b6046ad	⊝ Off	172.31.80.0/2
□	–	subnet-065e5a0d6527f346f	✓ Available	vpc-0ada651ba7b6046ad	⊝ Off	172.31.0.0/20
□	–	subnet-0d5a0fb7930ecafb9	✓ Available	vpc-0ada651ba7b6046ad	⊝ Off	172.31.32.0/2

16. Go to **Subnets** → **Create subnet**.
17. Select `lab-vpc`.
18. Create a second public subnet:

- Name: `lab-subnet-public2`
- AZ: second zone (like us-east-1b)
- CIDR: `10.0.2.0/24`


aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia) ▼
Account ID: 4993-1417-4579
voclabs/user4710846=1105_Sajjad_Hosen_Emo
VPC > Subnets > Create subnet
Remove

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
lab-subnet-public2
The name can be up to 256 characters long.

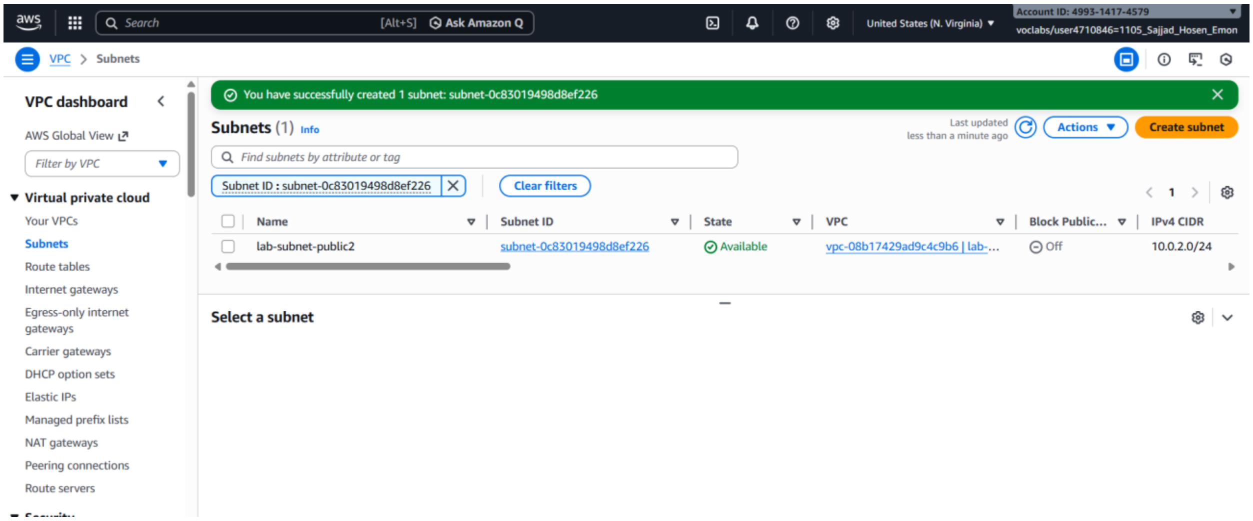
Availability Zone Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
United States (N. Virginia) / use1-az2 (us-east-1b)

IPv4 VPC CIDR block Info
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.
10.0.0.0/16

IPv4 subnet CIDR block
10.0.2.0/24 256 IPs

▼ Tags - *optional*

Key	Value - *optional*
Name	lab-subnet-public2



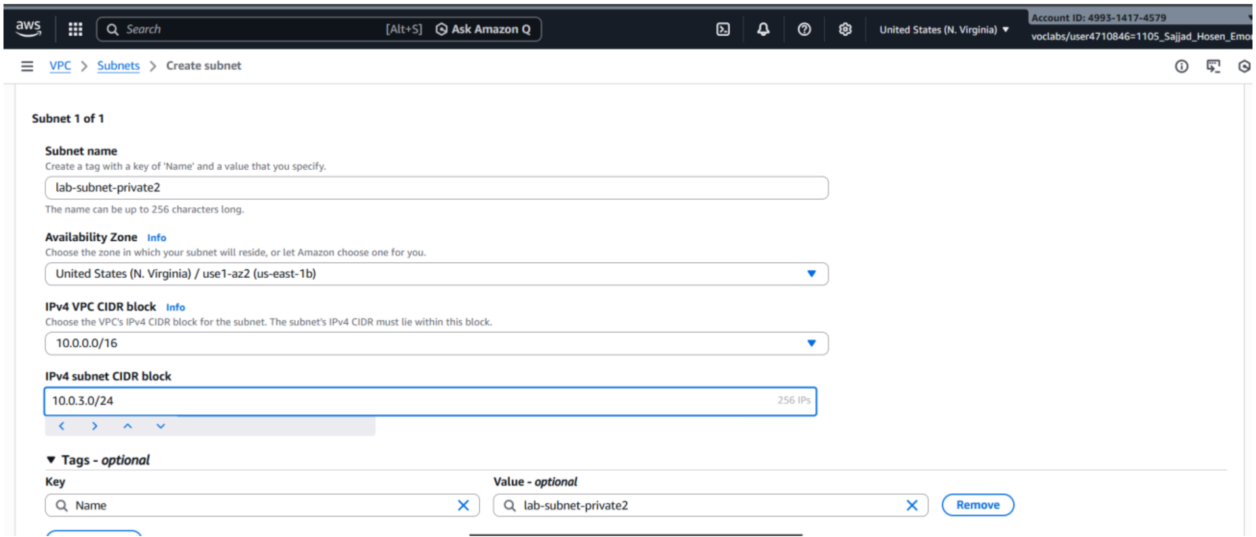
You have successfully created 1 subnet: subnet-0c83019498d8ef226

Subnets (1) Info

□	Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
□	lab-subnet-public2	subnet-0c83019498d8ef226	✓ Available	vpc-08b17429ad9c4c9b6 | lab-...	⊝ Off	10.0.2.0/24

17. Create another subnet again for private use:

- Name: `lab-subnet-private2`
- AZ: second zone
- CIDR: `10.0.3.0/24`


Search [Alt+S] Ask Amazon Q
United States (N. Virginia)
Account ID: 4993-1417-4579
voclabs/user4710846=1105_Sajjad_Hosen_Emo
VPC > Subnets > Create subnet

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
lab-subnet-private2
The name can be up to 256 characters long.

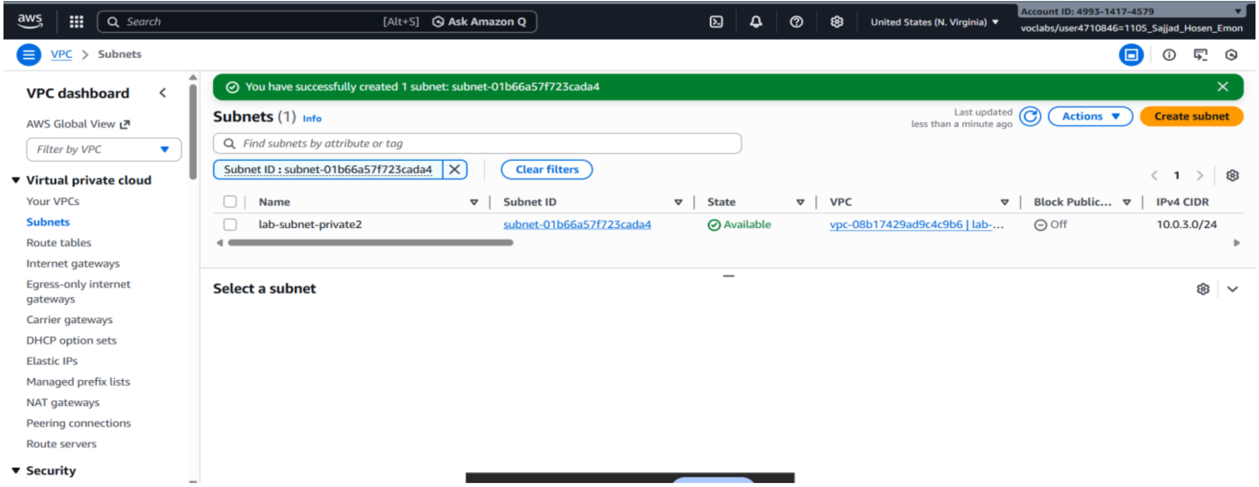
Availability Zone Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
United States (N. Virginia) / use1-az2 (us-east-1b)

IPv4 VPC CIDR block Info
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.
10.0.0.0/16

IPv4 subnet CIDR block
10.0.3.0/24 256 IPs

Tags - *optional*

Key	Value - *optional*
Name	lab-subnet-private2



You have successfully created 1 subnet: subnet-01b66a57f723cada4

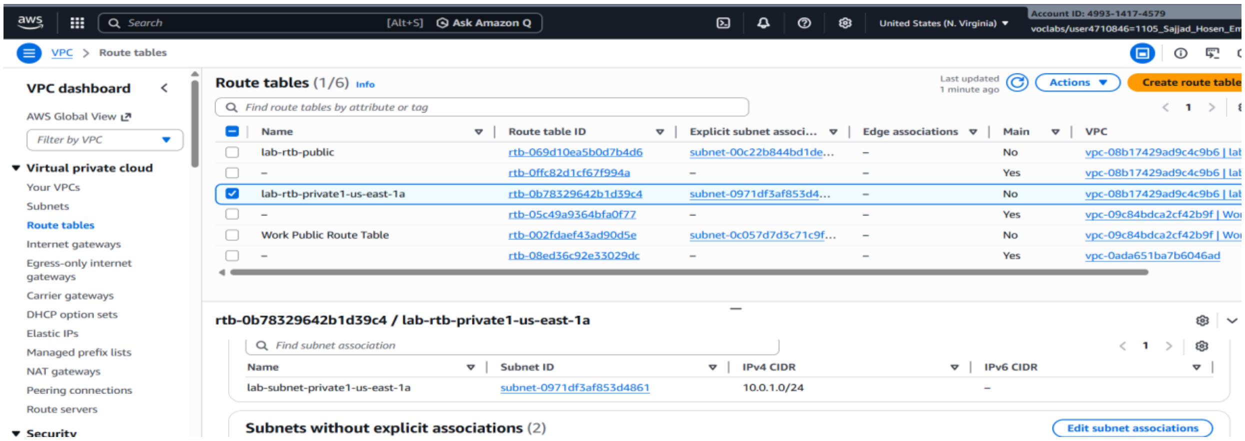
Subnets (1) Info
Last updated less than a minute ago
Subnet ID : subnet-01b66a57f723cada4

Name	Subnet ID	State	VPC	Block Public...	IPv4 CIDR
lab-subnet-private2	subnet-01b66a57f723cada4	Available	vpc-08b17429ad9c4c9b6 | lab-...	Off	10.0.3.0/24

Select a subnet

Update route tables

18. Open **Route tables**.
19. Select the private route table and add both private subnets to it.



Route tables (1/6) Info
Last updated 1 minute ago

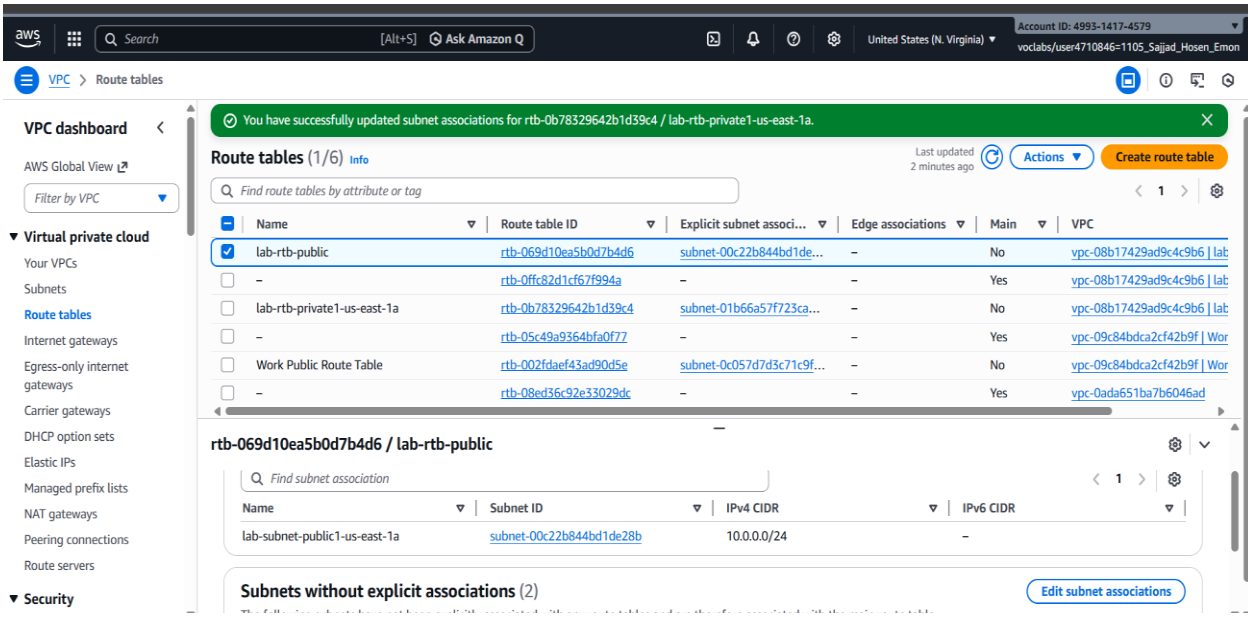
	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
□	lab-rtb-public	rtb-069d10ea5b0d7b4d6	subnet-00c22b844bd1de...	–	No	vpc-08b17429ad9c4c9b6 | lab
□	–	rtb-0ffc82d1cf67f994a	–	–	Yes	vpc-08b17429ad9c4c9b6 | lab
☑	lab-rtb-private1-us-east-1a	rtb-0b78329642b1d39c4	subnet-0971df3af853d4...	–	No	vpc-08b17429ad9c4c9b6 | lab
□	–	rtb-05c49a9364bfa0f77	–	–	Yes	vpc-09c84bdca2cf42b9f | Wo
□	Work Public Route Table	rtb-002fdaef43ad90d5e	subnet-0c057d7d3c71c9f...	–	No	vpc-09c84bdca2cf42b9f | Wo
□	–	rtb-08ed36c92e33029dc	–	–	Yes	vpc-0ada651ba7b6046ad

rtb-0b78329642b1d39c4 / lab-rtb-private1-us-east-1a

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
lab-subnet-private1-us-east-1a	subnet-0971df3af853d4861	10.0.1.0/24	–

Subnets without explicit associations (2)

20. Select the public route table and add both public subnets to it.



You have successfully updated subnet associations for rtb-0b78329642b1d39c4 / lab-rtb-private1-us-east-1a.

Route tables (1/6)

☐	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
☑	lab-rtb-public	rtb-069d10ea5b0d7b4d6	subnet-00c22b844bd1de...	–	No	vpc-08b17429ad9c4c9b6 | lab
☐	–	rtb-0ffc82d1cf67f994a	–	–	Yes	vpc-08b17429ad9c4c9b6 | lab
☐	lab-rtb-private1-us-east-1a	rtb-0b78329642b1d39c4	subnet-01b66a57f723ca...	–	No	vpc-08b17429ad9c4c9b6 | lab
☐	–	rtb-05c49a9364bfa0f77	–	–	Yes	vpc-09c84bdca2cf42b9f | Wor
☐	Work Public Route Table	rtb-002fdaef43ad90d5e	subnet-0c057d7d3c71c9f...	–	No	vpc-09c84bdca2cf42b9f | Wor
☐	–	rtb-08ed36c92e33029dc	–	–	Yes	vpc-0ada651ba7b6046ad

rtb-069d10ea5b0d7b4d6 / lab-rtb-public

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
lab-subnet-public1-us-east-1a	subnet-00c22b844bd1de28b	10.0.0.0/24	–

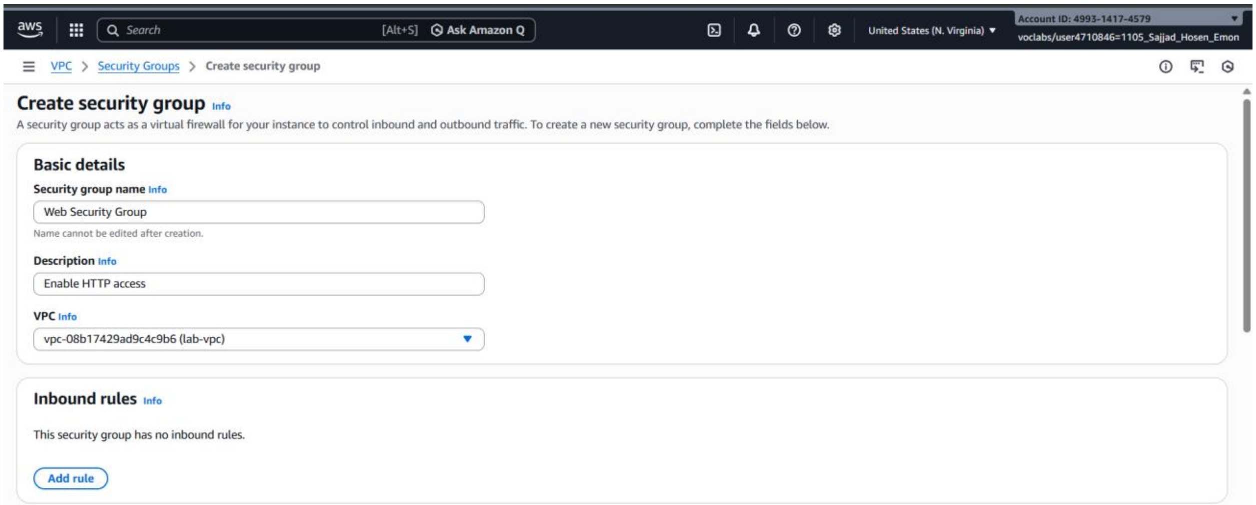
Subnets without explicit associations (2)

This makes public subnets able to talk to the internet.

Create a security group for the web server

21. Create new Security Group:

- Name: **Web Security Group**
- Description: allow web access
- Choose `lab-vpc`



Create security group

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

Basic details

Security group name: Web Security Group

Name cannot be edited after creation.

Description: Enable HTTP access

VPC: vpc-08b17429ad9c4c9b6 (lab-vpc)

Inbound rules

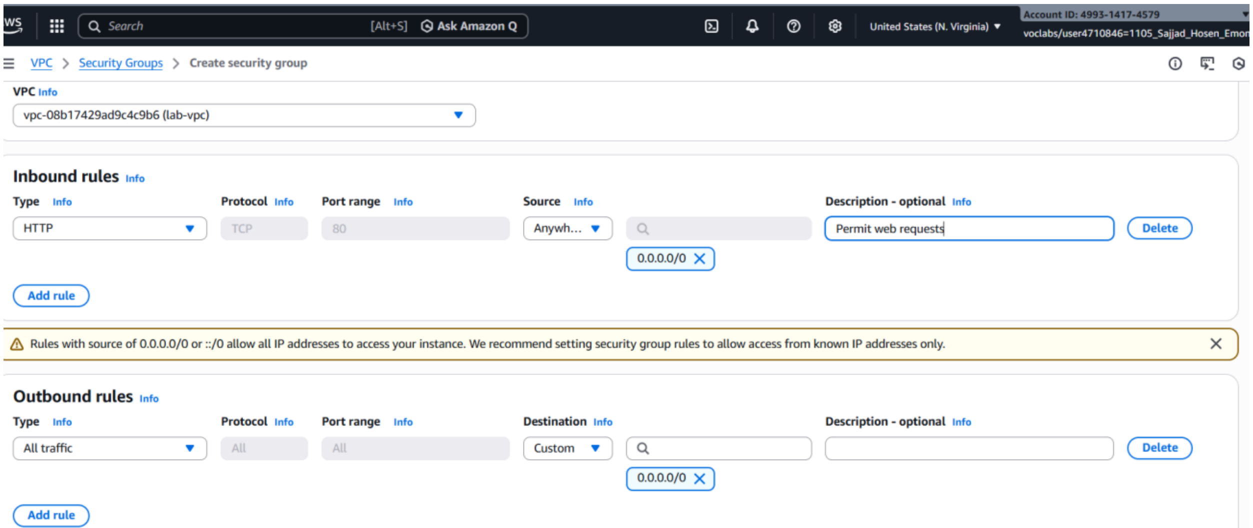
This security group has no inbound rules.

aws
Search
[Alt+S]
Ask Amazon Q
United States (N. Virginia)
Account ID: 4993-1417-4579
voclabs/user4710846=1105_Sajjad_Hosen_Emon
VPC
Security Groups
Create security group
Info
Add rule

22. Add inbound rule:

- Type: HTTP
- Source: Anywhere (IPv4)

23. Create the security group.


Search [Alt+S] Ask Amazon Q
United States (N. Virginia)
Account ID: 4993-1417-4579
voclabs/user4710846=1105_Sajjad_Hosen_Emon
VPC > Security Groups > Create security group

VPC Info: vpc-08b17429ad9c4c9b6 (lab-vpc)

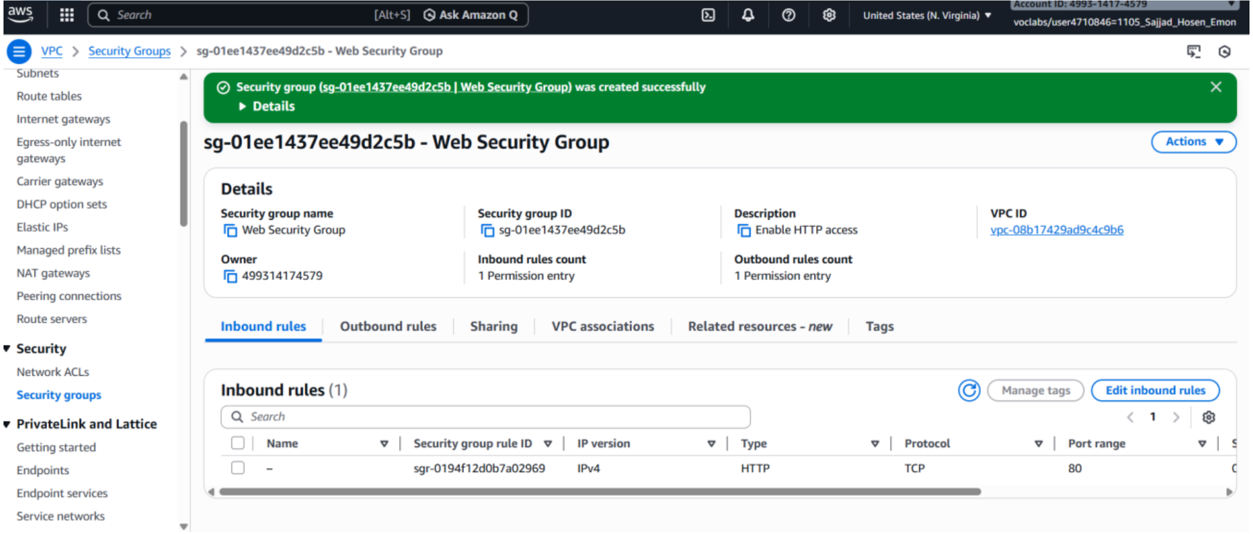
Inbound rules Info

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

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

Outbound rules Info

Type	Protocol	Port range	Destination		Description - optional
All traffic	All	All	Custom	0.0.0.0/0	



Security group (sg-01ee1437ee49d2c5b | Web Security Group) was created successfully

▸ Details

sg-01ee1437ee49d2c5b - Web Security Group

Details

Security group name	Security group ID	Description	VPC ID
Web Security Group	sg-01ee1437ee49d2c5b	Enable HTTP access	vpc-08b17429ad9c4c9b6

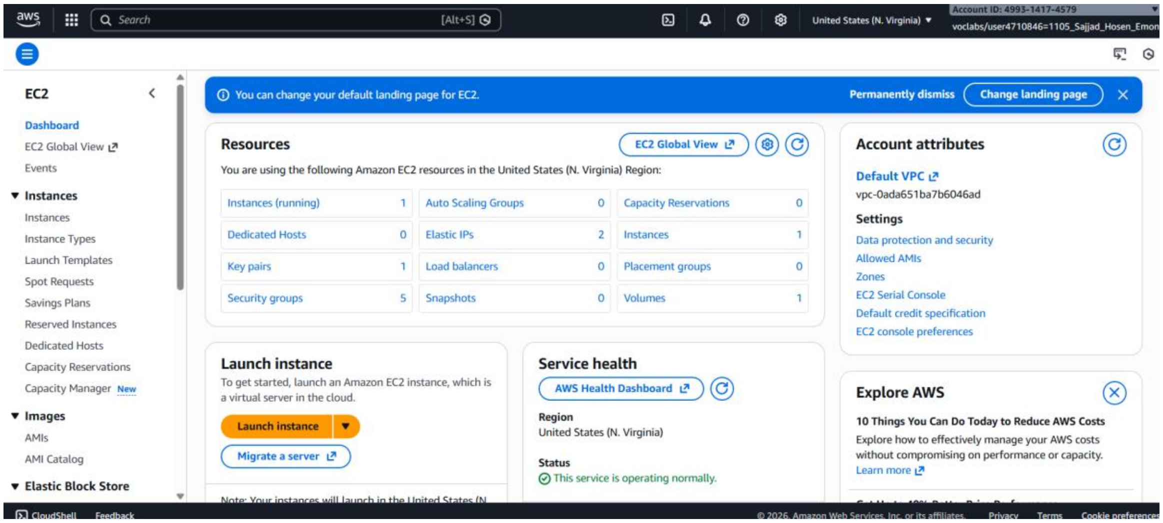
Owner	Inbound rules count	Outbound rules count
499314174579	1 Permission entry	1 Permission entry

Inbound rules (1)

Name	Security group rule ID	IP version	Type	Protocol	Port range
–	sgr-0194f12d0b7a02969	IPv4	HTTP	TCP	80

Launch the web server

24. Open EC2 service and click **Launch instance**.



You can change your default landing page for EC2.

Resources

You are using the following Amazon EC2 resources in the United States (N. Virginia) Region:

Instances (running)	1	Auto Scaling Groups	0	Capacity Reservations	0
Dedicated Hosts	0	Elastic IPs	2	Instances	1
Key pairs	1	Load balancers	0	Placement groups	0
Security groups	5	Snapshots	0	Volumes	1

Account attributes

Default VPC

vpc-0ada651ba7b6046ad

Settings

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Note: Your instances will launch in the United States (N.

Service health

Region: United States (N. Virginia)

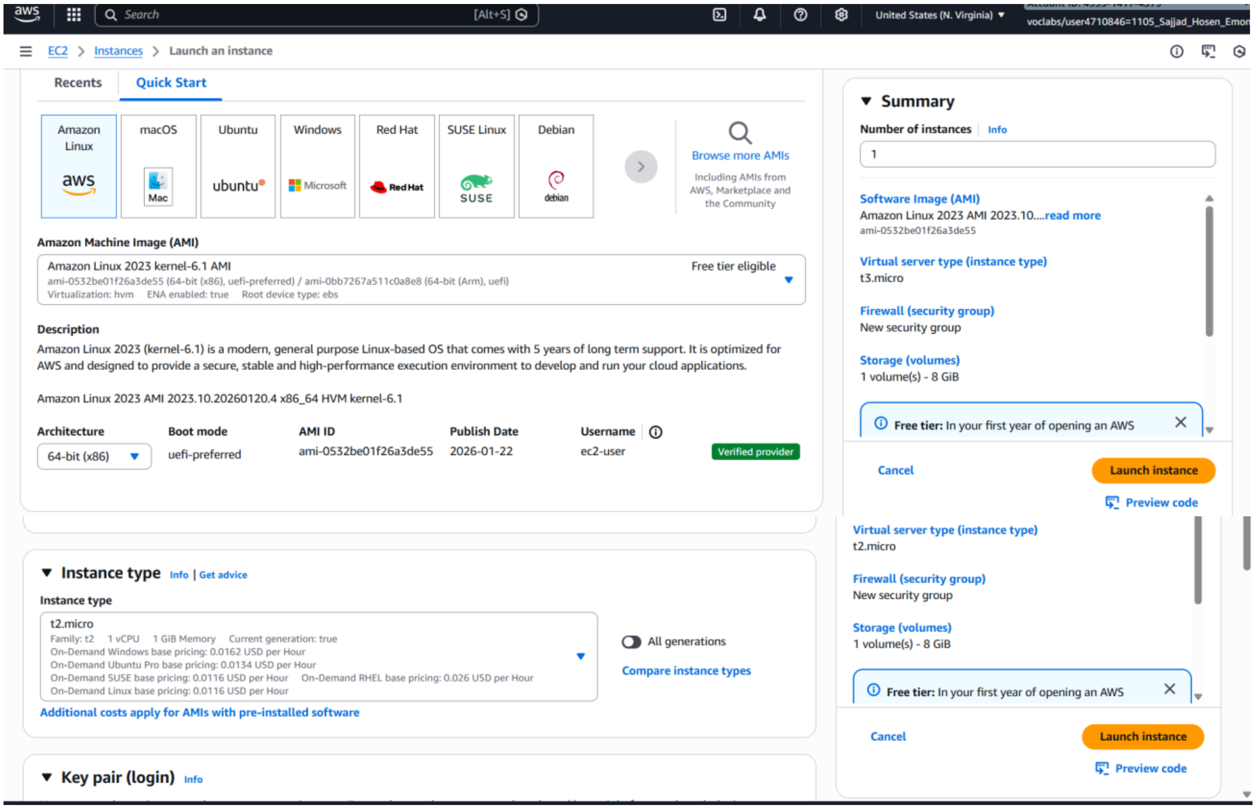
Status: This service is operating normally.

Explore AWS

10 Things You Can Do Today to Reduce AWS Costs

Explore how to effectively manage your AWS costs without compromising on performance or capacity.

25. Name it **Web Server 1**.



United States (N. Virginia) ▼
voclabs/user4710846=1105_Sajjad_Hosen_Emon

EC2 > Instances > Launch an instance

Recents | Quick Start

Amazon Machine Image (AMI)

Amazon Linux 2023 kernel-6.1 AMI — Free tier eligible ▼
ami-0532be01f26a3de55 (64-bit (x86), uefi-preferred) / ami-0bb7267a511c0a8e8 (64-bit (Arm), uefi)
Virtualization: hvm   ENA enabled: true   Root device type: ebs

Description

Amazon Linux 2023 (kernel-6.1) is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

Amazon Linux 2023 AMI 2023.10.20260120.4 x86_64 HVM kernel-6.1

Architecture	Boot mode	AMI ID	Publish Date	Username ⓘ	
64-bit (x86) ▼	uefi-preferred	ami-0532be01f26a3de55	2026-01-22	ec2-user	Verified provider

▼ **Instance type** Info | Get advice

Instance type

t2.micro
Family: t2   1 vCPU   1 GiB Memory   Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour   On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

○ All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ **Key pair (login)** Info

▼ **Summary**

Number of instances Info

1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.10....read more
ami-0532be01f26a3de55

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year of opening an AWS ✕

Cancel | Launch instance

Preview code

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

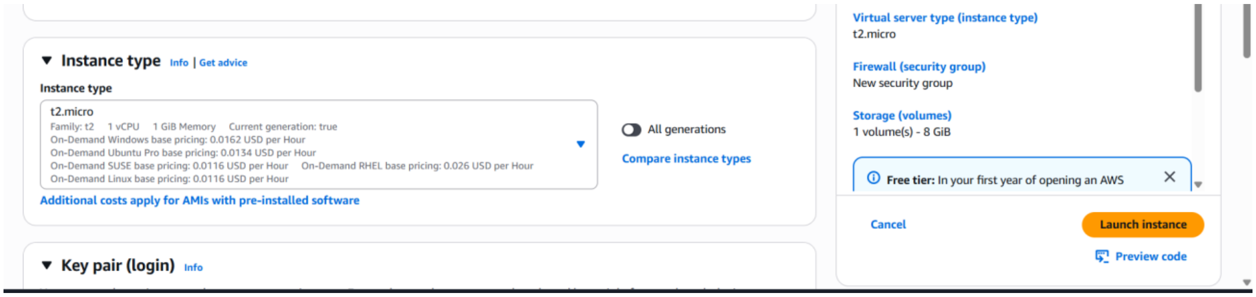
Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year of opening an AWS ✕

Cancel | Launch instance

Preview code

26. Use default Amazon Linux image and `t2.micro` type.



▼ **Instance type** Info | Get advice

Instance type

t2.micro
Family: t2   1 vCPU   1 GiB Memory   Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour   On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

○ All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ **Key pair (login)** Info

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

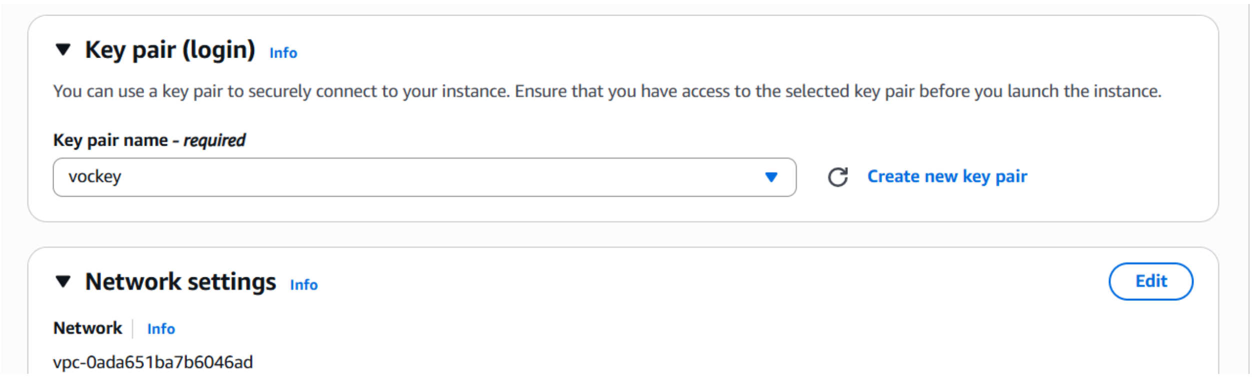
Storage (volumes)
1 volume(s) - 8 GiB

ⓘ **Free tier:** In your first year of opening an AWS ✕

Cancel | Launch instance

Preview code

27. Choose the provided key pair `vockey`.



▼ **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*

vockey ▼

Create new key pair

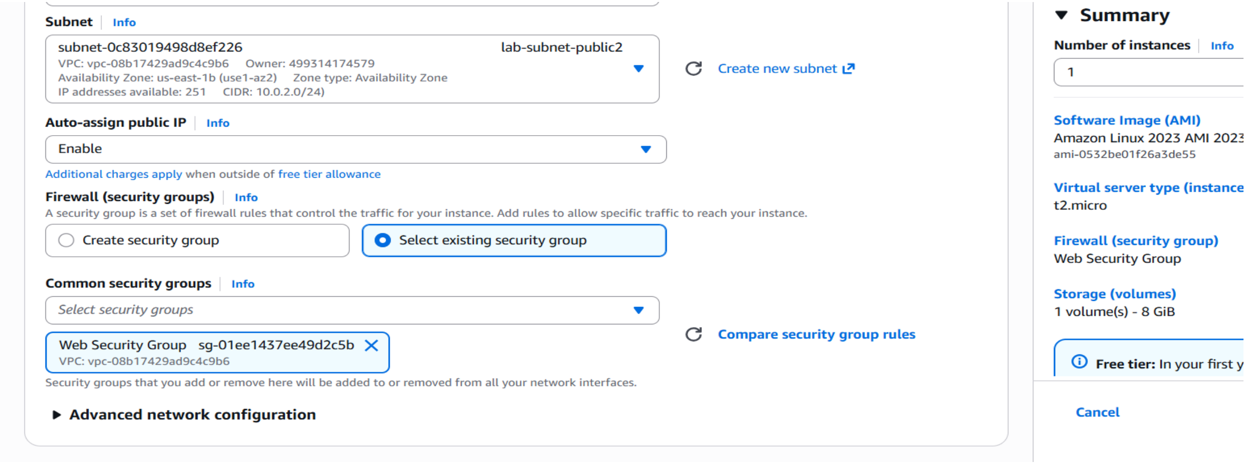
▼ **Network settings** Info — Edit

Network | Info

vpc-0ada651ba7b6046ad

28. Select Exacting security group
29. Network settings:

- VPC: `lab-vpc`
- Subnet: `lab-subnet-public2`



Subnet | Info

subnet-0c83019498d8ef226 lab-subnet-public2
VPC: vpc-08b17429ad9c4c9b6 Owner: 499314174579
Availability Zone: us-east-1b (use1-az2) Zone type: Availability Zone
IP addresses available: 251 CIDR: 10.0.2.0/24)

Create new subnet

Auto-assign public IP | Info

Enable

Additional charges apply when outside of free tier allowance

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

Common security groups | Info

Select security groups

Compare security group rules

Web Security Group sg-01ee1437ee49d2c5b ✕
VPC: vpc-08b17429ad9c4c9b6

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▶ Advanced network configuration

▼ Summary

Number of instances | Info

1

Software Image (AMI)
Amazon Linux 2023 AMI 2023
ami-0532be01f26a3de55

Virtual server type (instance
t2.micro

Firewall (security group)
Web Security Group

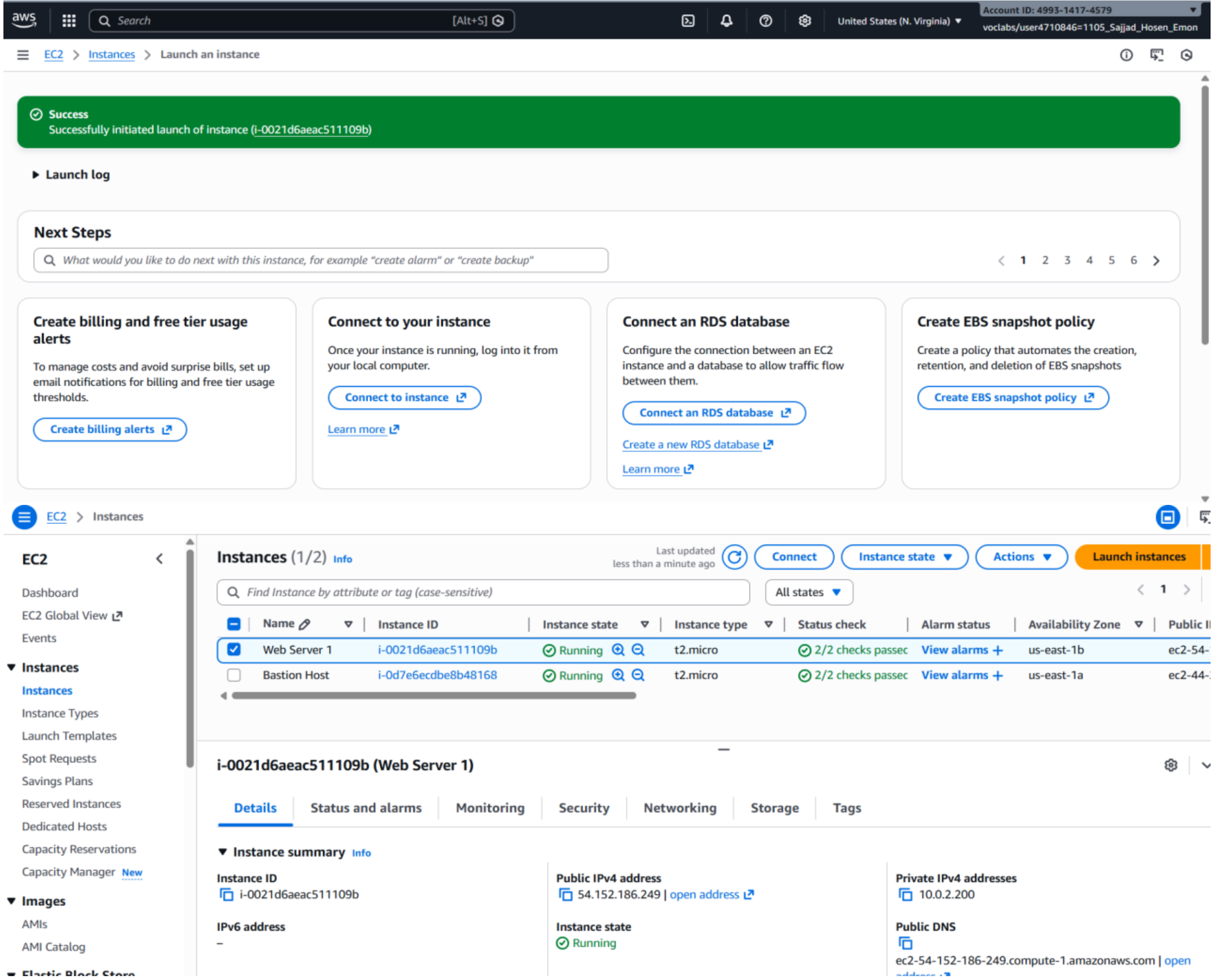
Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first y

Cancel

- Enable auto public IP
- Use existing security group: **Web Security Group**

29. Launch the instance and wait until status checks are 2/2 passed.



aws
Search [Alt+S]
United States (N. Virginia)
Account ID: 4993-1417-4579
voclabs/user4710846=1105_Sajjad_Hosen_Emon
EC2 > Instances > Launch an instance

Success
Successfully initiated launch of instance (i-0021d6aeac511109b)

▶ Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

< 1 2 3 4 5 6 >

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts

Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
Create EBS snapshot policy

Instances (1/2) Info

Last updated less than a minute ago | Connect | Instance state ▼ | Actions ▼ | Launch instances

Find Instance by attribute or tag (case-sensitive) | All states ▼

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public I
☑	Web Server 1	i-0021d6aeac511109b	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1b	ec2-54-
□	Bastion Host	i-0d7e6ecdbe8b48168	Running	t2.micro	2/2 checks passec	View alarms +	us-east-1a	ec2-44-

i-0021d6aeac511109b (Web Server 1)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

▼ Instance summary Info

Instance ID
i-0021d6aeac511109b

IPv6 address
–

Public IPv4 address
54.152.186.249 | open address

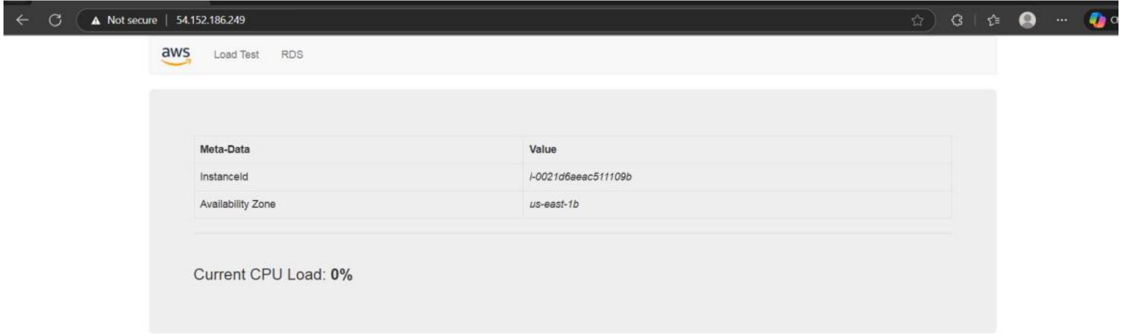
Instance state
Running

Private IPv4 addresses
10.0.2.200

Public DNS
ec2-54-152-186-249.compute-1.amazonaws.com | open address

Test the server

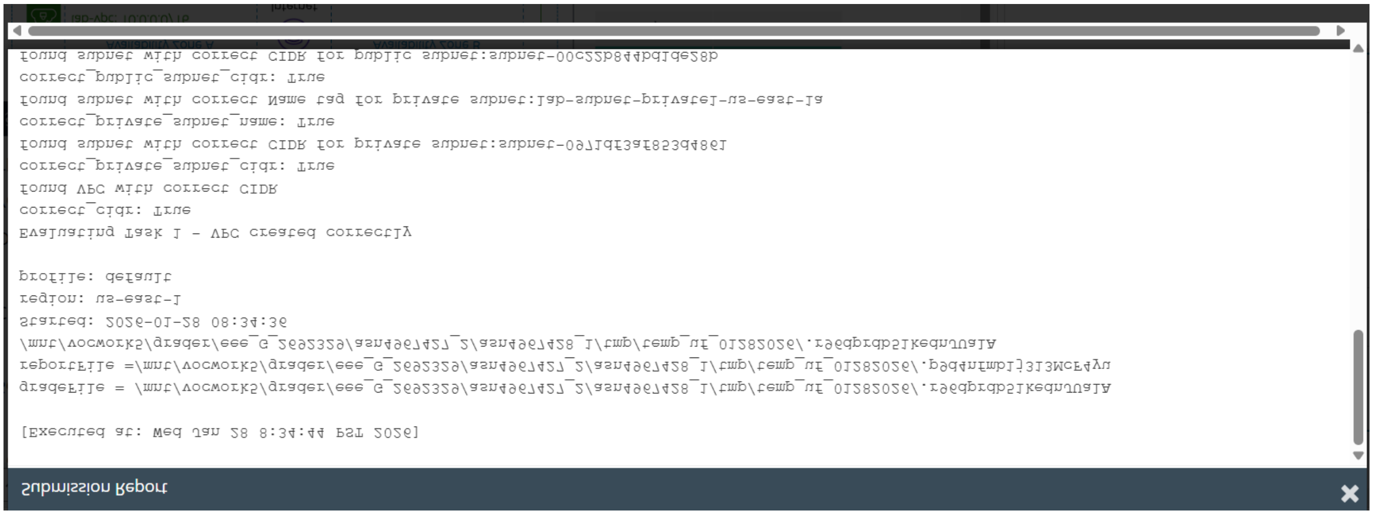
30. Open the instance details.
31. Copy the **Public IPv4 DNS**.
32. Paste it in your browser.
33. If the page opens, the web server is working and publicly reachable.



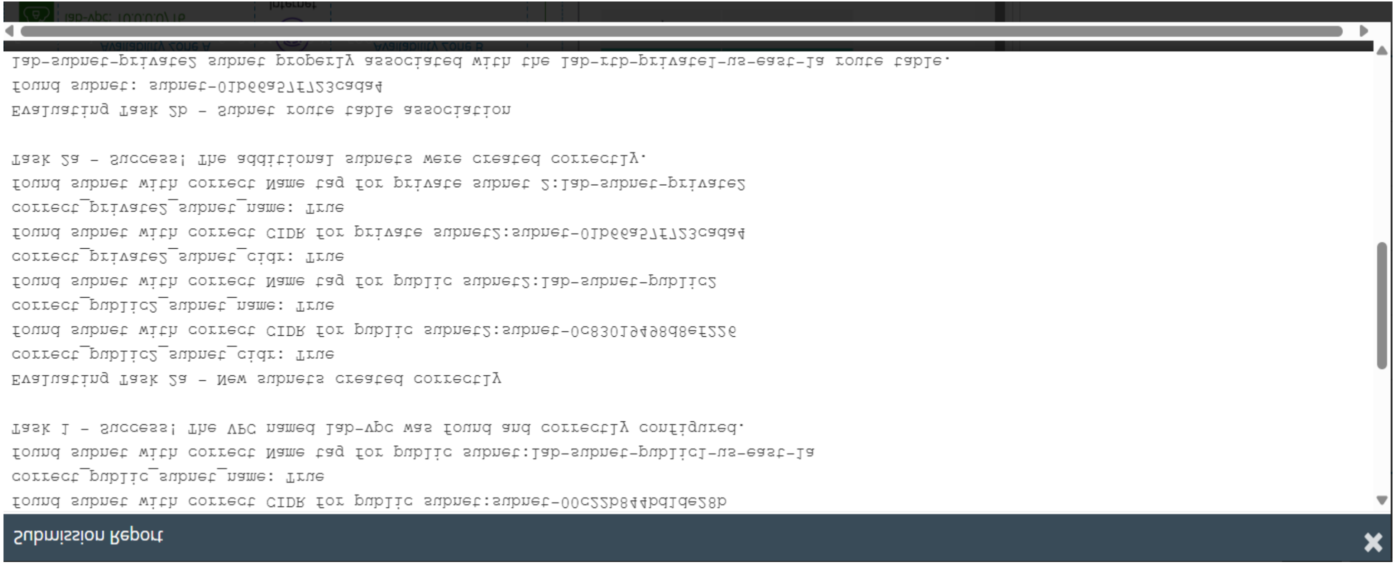
Meta-Data	Value
InstanceId	i-0021d6aeac511109b
Availability Zone	us-east-1b

Current CPU Load: **0%**

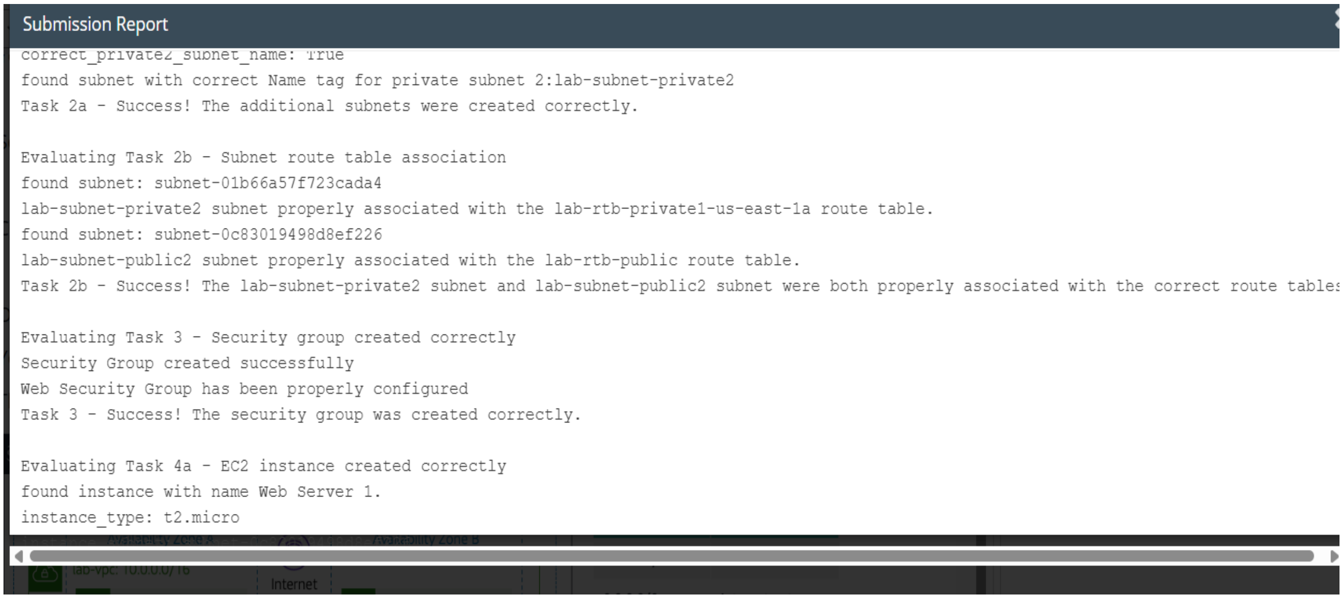
34. Finally, submit the lab and view the report.



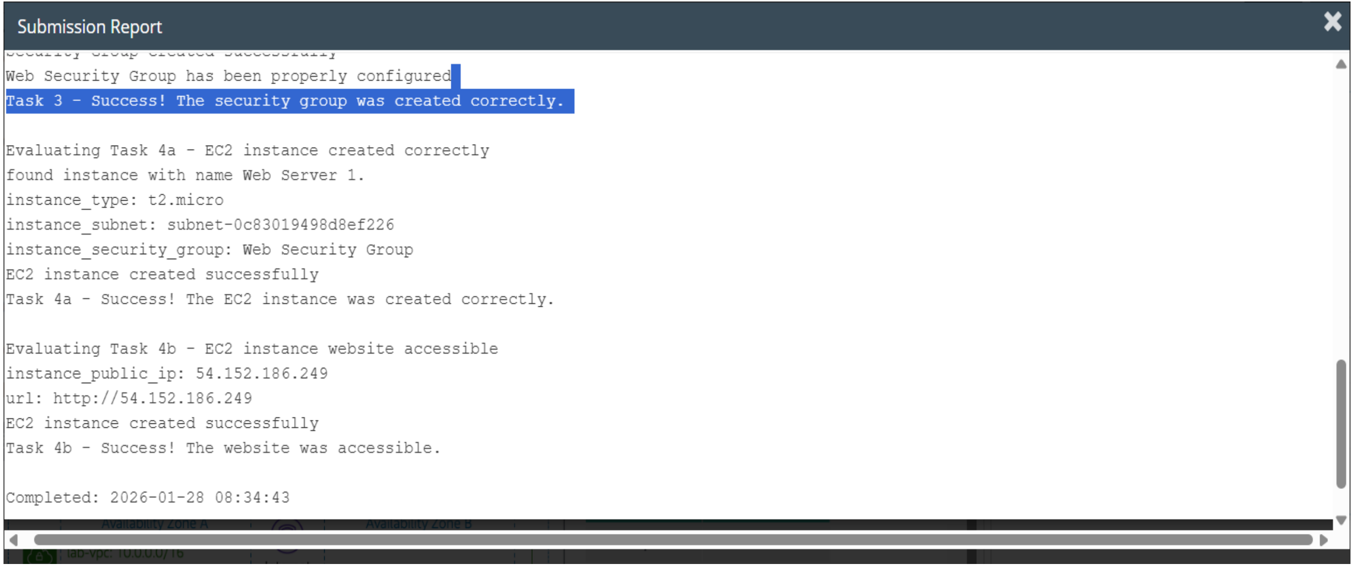
```
[Executed at: Wed Jan 28 8:34:44 PST 2026]

gradeFile = /mnt/vocwork5/grader/eee_G_2692329/asn4967427_2/asn4967428_1/tmp/temp_ut_01282026/.r9edprdp5lkedunlalA
reportFile =/mnt/vocwork5/grader/eee_G_2692329/asn4967427_2/asn4967428_1/tmp/temp_ut_01282026/.p9d4ntmpl]3l3McF4yu
/mnt/vocwork5/grader/eee_G_2692329/asn4967427_2/asn4967428_1/tmp/temp_ut_01282026/.r9edprdp5lkedunlalA
started: 2026-01-28 08:34:36
region: us-east-1
profile: default

Evaluating Task 1 - VPC created correctly
correct_cidr: True
found VPC with correct CIDR
correct_private_subnet_cidr: True
found subnet with correct CIDR for private subnet:subnet-0971df3af823d498e1
correct_private_subnet_name: True
found subnet with correct Name tag for private subnet:lab-subnet-private1-us-east-1a
correct_public_subnet_cidr: True
found subnet with correct CIDR for public subnet:subnet-00c22b844bd1de28b
```



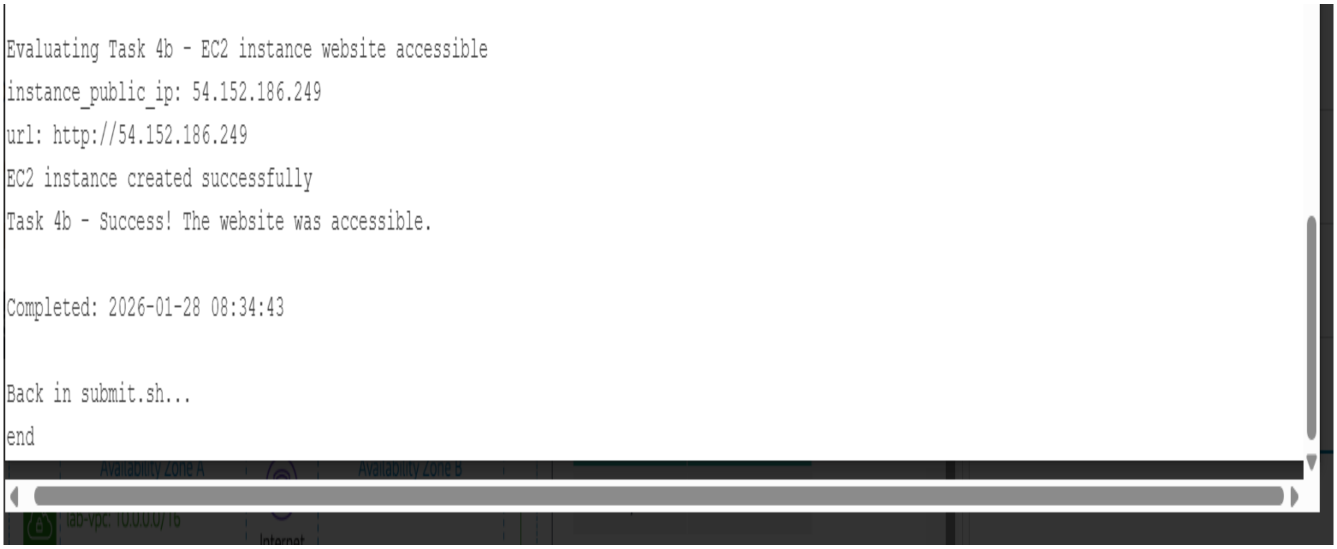
```
found subnet with correct CIDR for public subnet:subnet-00c22b844bd1de28b
correct_public_subnet_name: True
found subnet with correct Name tag for public subnet:lab-subnet-public1-us-east-1a
Task 1 - Success; The VPC named lab-vpc was found and correctly configured.

Evaluating Task 2a - New subnets created correctly
correct_public2_subnet_cidr: True
found subnet with correct CIDR for public subnet2:subnet-0c83019498d8ef226
correct_public2_subnet_name: True
found subnet with correct Name tag for public subnet2:lab-subnet-public2
correct_private2_subnet_cidr: True
found subnet with correct CIDR for private subnet2:subnet-01b66a57f723cad44
correct_private2_subnet_name: True
found subnet with correct Name tag for private subnet 2:lab-subnet-private2
Task 2a - Success; The additional subnets were created correctly.

Evaluating Task 2b - Subnet route table association
found subnet: subnet-01b66a57f723cad44
lab-subnet-private2 subnet properly associated with the lab-rtb-private1-us-east-1a route table.
```



```
correct_private2_subnet_name: True
found subnet with correct Name tag for private subnet 2:lab-subnet-private2
Task 2a - Success! The additional subnets were created correctly.

Evaluating Task 2b - Subnet route table association
found subnet: subnet-01b66a57f723cada4
lab-subnet-private2 subnet properly associated with the lab-rtb-private1-us-east-1a route table.
found subnet: subnet-0c83019498d8ef226
lab-subnet-public2 subnet properly associated with the lab-rtb-public route table.
Task 2b - Success! The lab-subnet-private2 subnet and lab-subnet-public2 subnet were both properly associated with the correct route tables

Evaluating Task 3 - Security group created correctly
Security Group created successfully
Web Security Group has been properly configured
Task 3 - Success! The security group was created correctly.

Evaluating Task 4a - EC2 instance created correctly
found instance with name Web Server 1.
instance_type: t2.micro
```

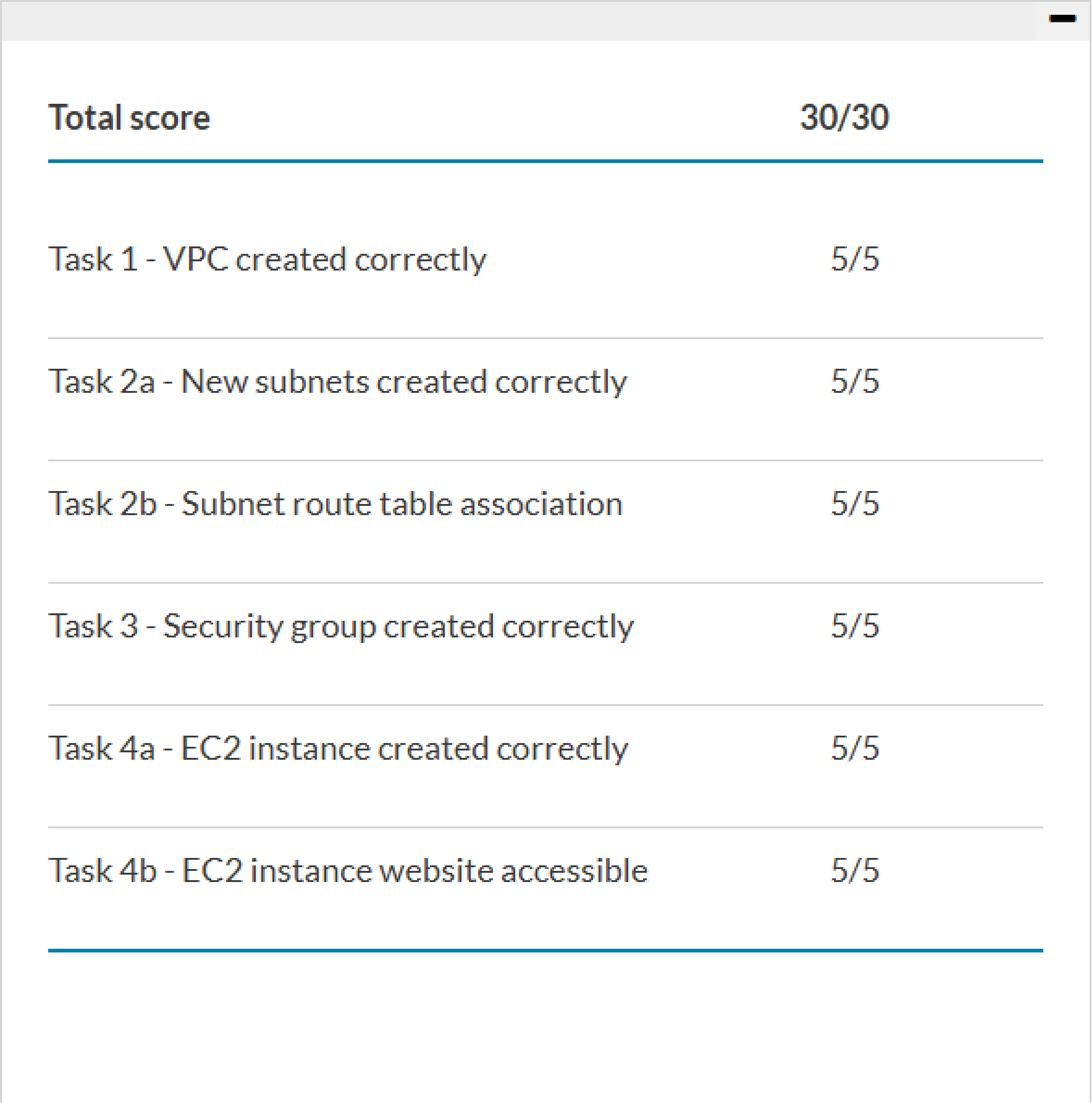


```
Security Group created successfully
Web Security Group has been properly configured
Task 3 - Success! The security group was created correctly.

Evaluating Task 4a - EC2 instance created correctly
found instance with name Web Server 1.
instance_type: t2.micro
instance_subnet: subnet-0c83019498d8ef226
instance_security_group: Web Security Group
EC2 instance created successfully
Task 4a - Success! The EC2 instance was created correctly.

Evaluating Task 4b - EC2 instance website accessible
instance_public_ip: 54.152.186.249
url: http://54.152.186.249
EC2 instance created successfully
Task 4b - Success! The website was accessible.

Completed: 2026-01-28 08:34:43
```



```
Evaluating Task 4b - EC2 instance website accessible
instance_public_ip: 54.152.186.249
url: http://54.152.186.249
EC2 instance created successfully
Task 4b - Success! The website was accessible.

Completed: 2026-01-28 08:34:43

Back in submit.sh...
end
```

35. Grade:



Total score	30/30
Task 1 - VPC created correctly	5/5
Task 2a - New subnets created correctly	5/5
Task 2b - Subnet route table association	5/5
Task 3 - Security group created correctly	5/5
Task 4a - EC2 instance created correctly	5/5
Task 4b - EC2 instance website accessible	5/5

Conclusion

- A private cloud network was created successfully.
- Networking rules were set so public and private areas stay organized and secure.
- A web server was launched inside the public subnet and connected to the internet.
- This exercise shows the basic but important skills needed to deploy real applications safely in the cloud.