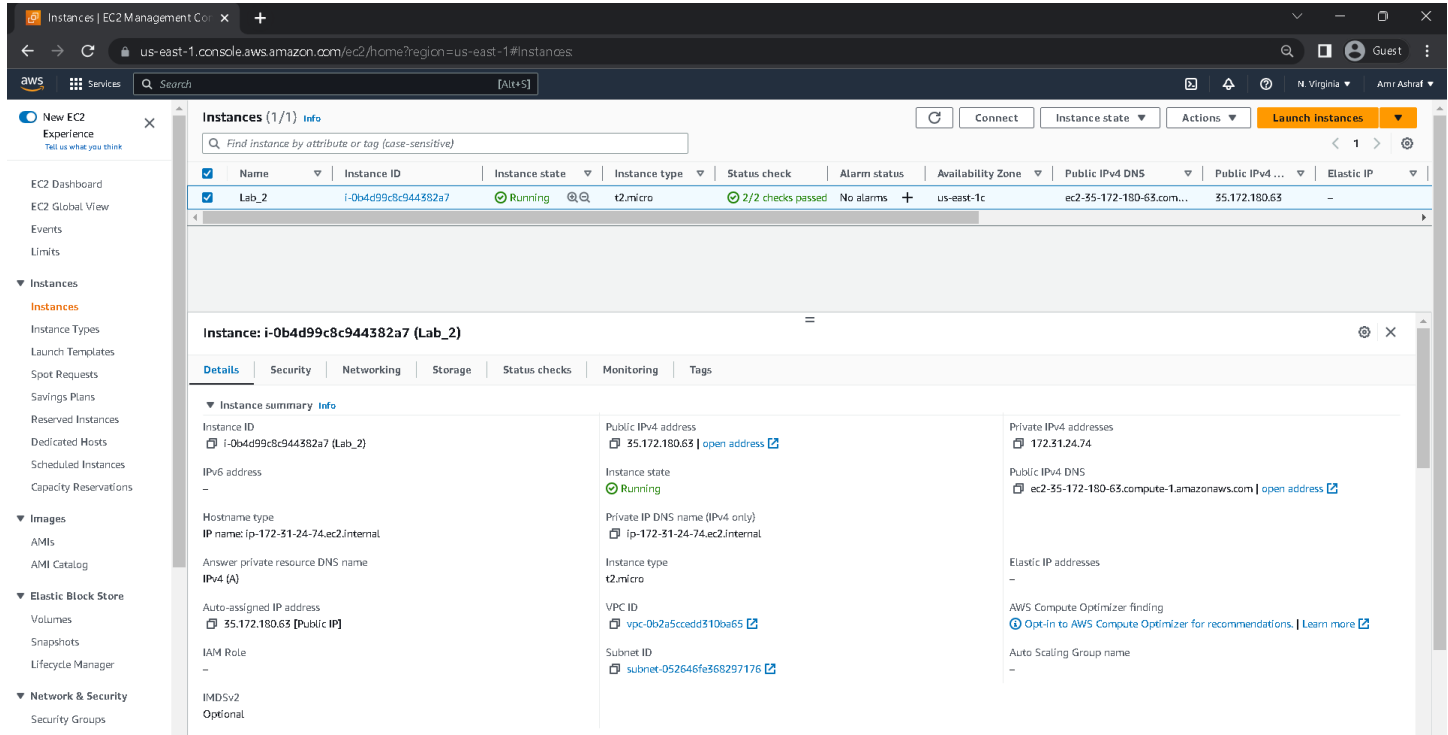


## AWS Task Lab 2

### 1 - Create EC2 Server.



The screenshot displays the AWS Management Console for the 'us-east-1' region. The 'Instances' page shows a table with one instance, 'Lab\_2', which is in a 'Running' state. The instance details panel for 'Lab\_2' (ID: i-0b4d99c8c944382a7) is expanded, showing the following information:

- Instance ID:** i-0b4d99c8c944382a7 (Lab\_2)
- IPV6 address:** -
- Hostname type:** IP name: ip-172-31-24-74.ec2.internal
- Answer private resource DNS name:** IPv4 (A)
- Auto-assigned IP address:** 35.172.180.63 [Public IP]
- IAM Role:** -
- IMDSv2:** Optional
- Public IPv4 address:** 35.172.180.63 [open address]
- Instance state:** Running
- Private IP DNS name (IPv4 only):** ip-172-31-24-74.ec2.internal
- Instance type:** t2.micro
- VPC ID:** vpc-0b2a5cedd310ba65
- Subnet ID:** subnet-052646fe368297176
- Private IPv4 addresses:** 172.31.24.74
- Public IPv4 DNS:** ec2-35-172-180-63.compute-1.amazonaws.com [open address]
- Elastic IP addresses:** -
- AWS Compute Optimizer finding:** Opt-in to AWS Compute Optimizer for recommendations. [Learn more]
- Auto Scaling Group name:** -

### 2 - install nginx on the server

```
ubuntu@ip-172-31-24-74: ~  
amr@DESKTOP-D5VVHN0:~$ ls  
Docker_Projects Sprints.pem Sprints.pem:Zone.Identifier aws awscliv2.zip build test  
amr@DESKTOP-D5VVHN0:~$ chmod 400 Sprints.pem  
amr@DESKTOP-D5VVHN0:~$ ssh -i "Sprints.pem" ubuntu@ec2-35-172-180-63.compute-1.amazonaws.com  
The authenticity of host 'ec2-35-172-180-63.compute-1.amazonaws.com (35.172.180.63)' can't be established.  
ED25519 key fingerprint is SHA256:Df20KTxUqwyKPtFj14ve2W0tMzyr0EN4zISV+9V7ZNM.  
This key is not known by any other names  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added 'ec2-35-172-180-63.compute-1.amazonaws.com' (ED25519) to the list of known hosts.  
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-1025-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Sun Jun  4 10:39:14 UTC 2023  
  
System load:  0.0          Processes:            95  
Usage of /:   20.6% of 7.57GB Users logged in:      0  
Memory usage: 24%         IPv4 address for eth0: 172.31.24.74  
Swap usage:   0%  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.
```

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

No services need to be restarted.

**No containers need to be restarted.**

```
No user sessions are running outdated binaries.
```

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
ubuntu@ip-172-31-24-74:~$ sudo systemctl status nginx
```

Unit nginx.service could not be found.

```
ubuntu@ip-172-31-24-74:~$ sudo systemctl status nginx
```

[illegible]

```
Jun 04 10:40:19 ip-172-31-24-74 systemd[1]: Starting A high performance web server and a reverse proxy server...
```

```
Jun 04 10:40:19 ip-172-31-24-74 systemd[1]: Started A high performance web server and a reverse proxy server.
```

```
ubuntu@ip-172-31-24-74:~$
```

← → ↻

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroup:group-id=sg-0183d31519838236d

Guest

BWS

Services

Search

[Alt+5]

N. Virginia

Amir Ashraf

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

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AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Inbound security group rules successfully modified on security group (sg-0183d31519838236d | launch-wizard-1)

Details

EC2 > Security Groups > sg-0183d31519838236d - launch-wizard-1

sg-0183d31519838236d - launch-wizard-1

Actions

Details

Security group name  
launch-wizard-1

Security group ID  
sg-0183d31519838236d

Description  
launch-wizard-1 created 2023-06-04T10:16:27.604Z

VPC ID  
vpc-0b2a5ccedd310ba65

Owner  
812428914503

Inbound rules count  
2 Permission entries

Outbound rules count  
1 Permission entry

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (2)

Filter security group rules

Manage tags

Edit inbound rules

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sg-05e029270b2be59e0	IPv4	SSH	TCP	22	0.0.0.0/0	-
<input type="checkbox"/>	-	sg-0aa45aac9f3c7d80f	IPv4	HTTP	TCP	80	0.0.0.0/0	-

← → ↻

Not secure | 35.172.180.63

Guest

## Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](https://nginx.org).  
Commercial support is available at [nginx.com](https://nginx.com).

*Thank you for using nginx.*