Cloud Computing Assignment 5
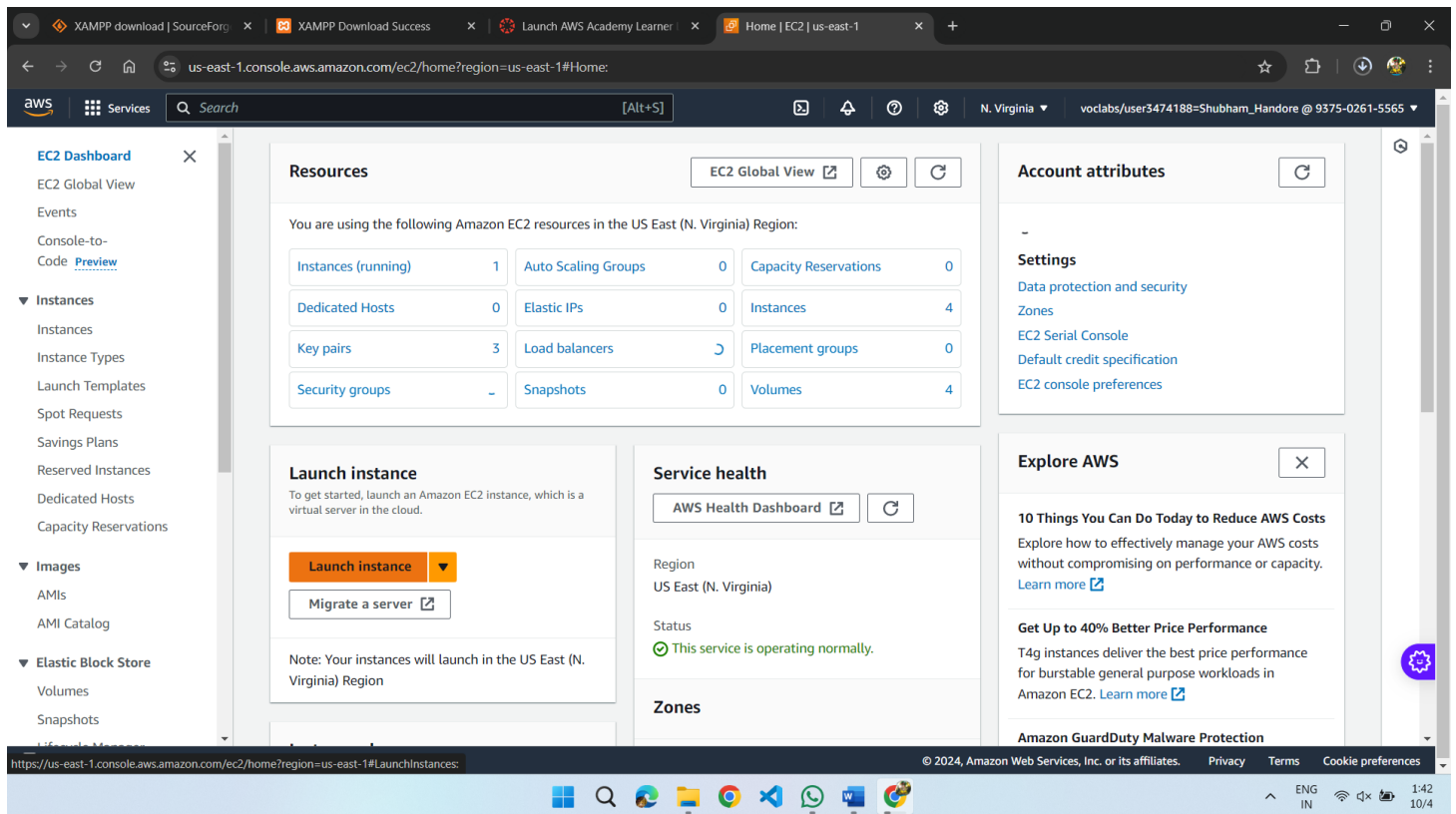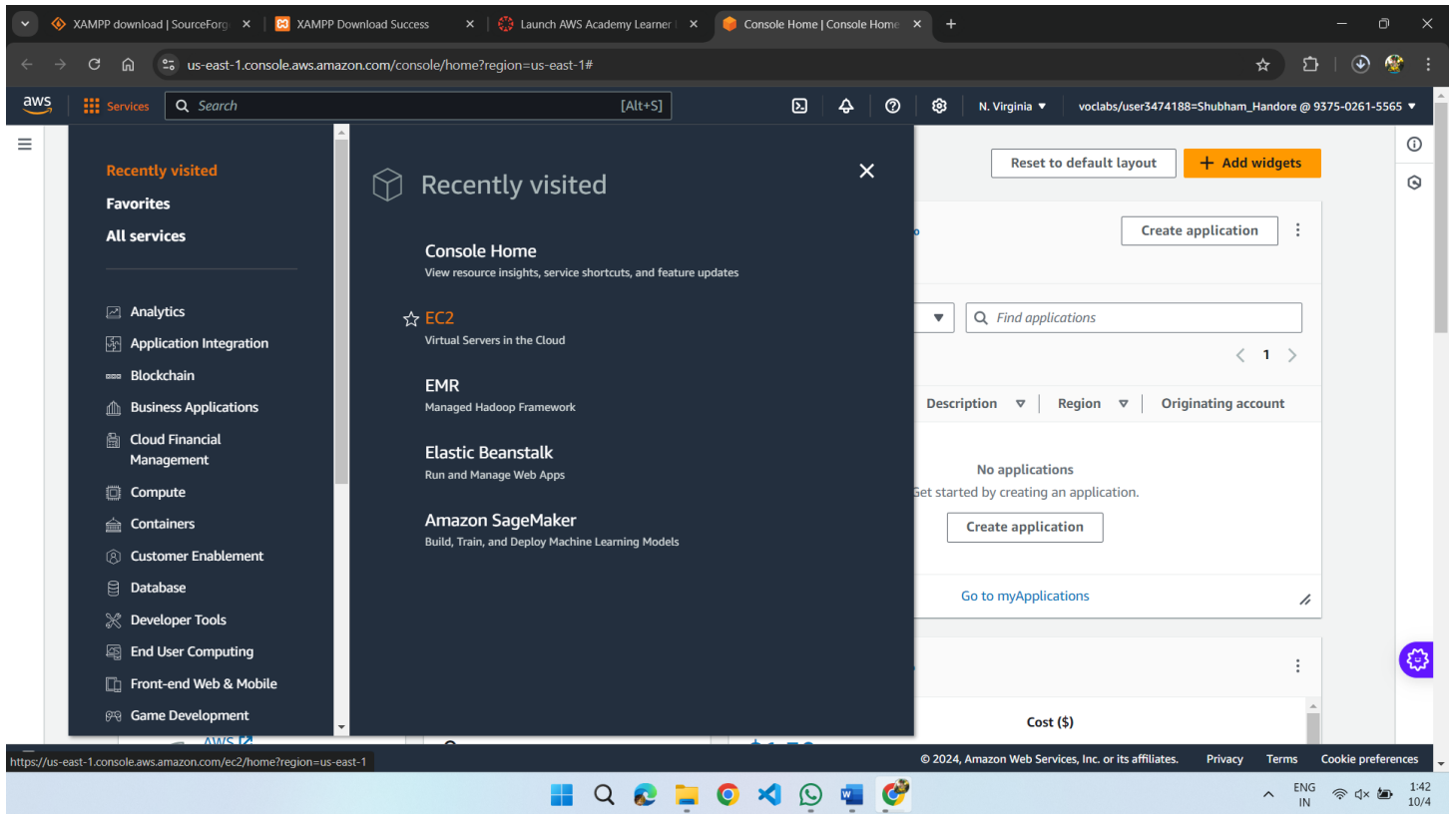
Launch EC2 instance (Linux) – AWS Platform

Update your Security group and access the web server

aws   Services   Q Search [Alt+S]   N. Virginia ▼   voclabs/user3474188=Shubham_Handore @ 9375-0261-5565 ▼

Recents   My AMIs   **Quick Start**

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUSE Li
aws	Mac	ubuntu	Microsoft	Red Hat	SUSE

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI   Free tier eligible
ami-0fff1b9a61dec8a5f (64-bit (x86), uefi-preferred) / ami-0621e09dc8263acc3 (64-bit (Arm), uefi)
Virtualization: hvm   ENA enabled: true   Root device type: ebs

Description

Amazon Linux 2023 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.

Architecture	Boot mode	AMI ID	Username ⓘ	
64-bit (x86)	uefi-preferred	ami-0fff1b9a61dec8a5f	ec2-user	Verified provider

Instance type   Info | Get advice

Summary

Number of instances   Info

1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.5.2...read more
ami-0fff1b9a61dec8a5f

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 includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance

Cancel   **Launch instance**

Review commands

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Screenshot 2

aws   Services   Q Search [Alt+S]   N. Virginia ▼   voclabs/user3474188=Shubham_Handore @ 9375-0261-5565 ▼

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 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

Additional costs apply for AMIs with pre-installed software

Create key pair

Key pair name
Key pairs allow you to connect to your instance securely.

NewKey5

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

◉ **RSA**
RSA encrypted private and public key pair

○ **ED25519**
ED25519 encrypted private and public key pair

Private key file format

○ .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**

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

Network settings   Info

Network   Info

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

aws | Services | Search [Alt+S] | N. Virginia ▼ | voclabs/user3474188=Shubham_Handore @ 9375-0261-5565 ▼

▼ **Instance type** | Info | Get advice

Instance type

t2.micro — Free tier eligible
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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

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*

NewKey5

Create new key pair

▼ **Network settings** | Info | Edit

Network | Info

▼ **Summary**

Number of instances | Info

1

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Cancel | **Launch instance**

Review commands

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

aws | Services | Search [Alt+S] | N. Virginia ▼ | voclabs/user3474188=Shubham_Handore @ 9375-0261-5565 ▼

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0) | Remove

Type | Info
ssh

Source type | Info
Anywhere

Protocol | Info
TCP

Source | Info
Add CIDR, prefix list or security

0.0.0.0/0 ✕

Port range | Info
22

Description - *optional* | Info
e.g. SSH for admin desktop

▼ Security group rule 2 (TCP, 80, 0.0.0.0/0) | Remove

Type | Info
HTTP

Source type | Info
Anywhere

Protocol | Info
TCP

Source | Info
Add CIDR, prefix list or security

0.0.0.0/0 ✕

Port range | Info
80

Description - *optional* | Info
e.g. SSH for admin desktop

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

Add security group rule

▼ **Summary**

Number of instances | Info

1

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Cancel | **Launch instance**

Review commands

Screenshot 1 — Launch an instance (EC2)

EC2 > ... > Launch an instance

Success
Successfully initiated launch of instance (i-04f180e29f57106f3)

▶ 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 ⬀

Screenshot 2 — SecurityGroup (EC2)

AMI Catalog

▼ **Elastic Block Store**
  Volumes
  Snapshots
  Lifecycle Manager

▼ **Network & Security**
  Security Groups
  Elastic IPs
  Placement Groups
  Key Pairs
  Network Interfaces

▼ **Load Balancing**
  Load Balancers
  Target Groups
  Trust Stores New

▼ **Auto Scaling**
  Auto Scaling Groups

Settings

EC2 > Security Groups > sg-0476db1fc87e7fab8 - launch-wizard-9

sg-0476db1fc87e7fab8 - launch-wizard-9

Actions ▼

Details

Security group name
🗔 launch-wizard-9

Security group ID
🗔 sg-0476db1fc87e7fab8

Description
🗔 launch-wizard-9 created 2024-10-04T08:12:37.202Z

VPC ID
🗔 vpc-06b72cb8fe3aaabb1 ⬀

Owner
🗔 937502615565

Inbound rules count
2 Permission entries

Outbound rules count
1 Permission entry

Inbound rules **Outbound rules** **Tags**

Inbound rules (2)

🔍 Search

Manage tags   Edit inbound rules

‹ 1 ›

☐	Name	▽	Security group rule...	▽	IP version	▽	Type	▽	Protocol	▽	Port range
☐			sgr-02b14b97a5e972...		IPv4		HTTP		TCP		80
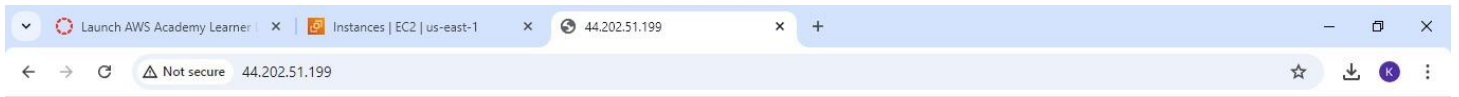
Welcome to my Apache web server