

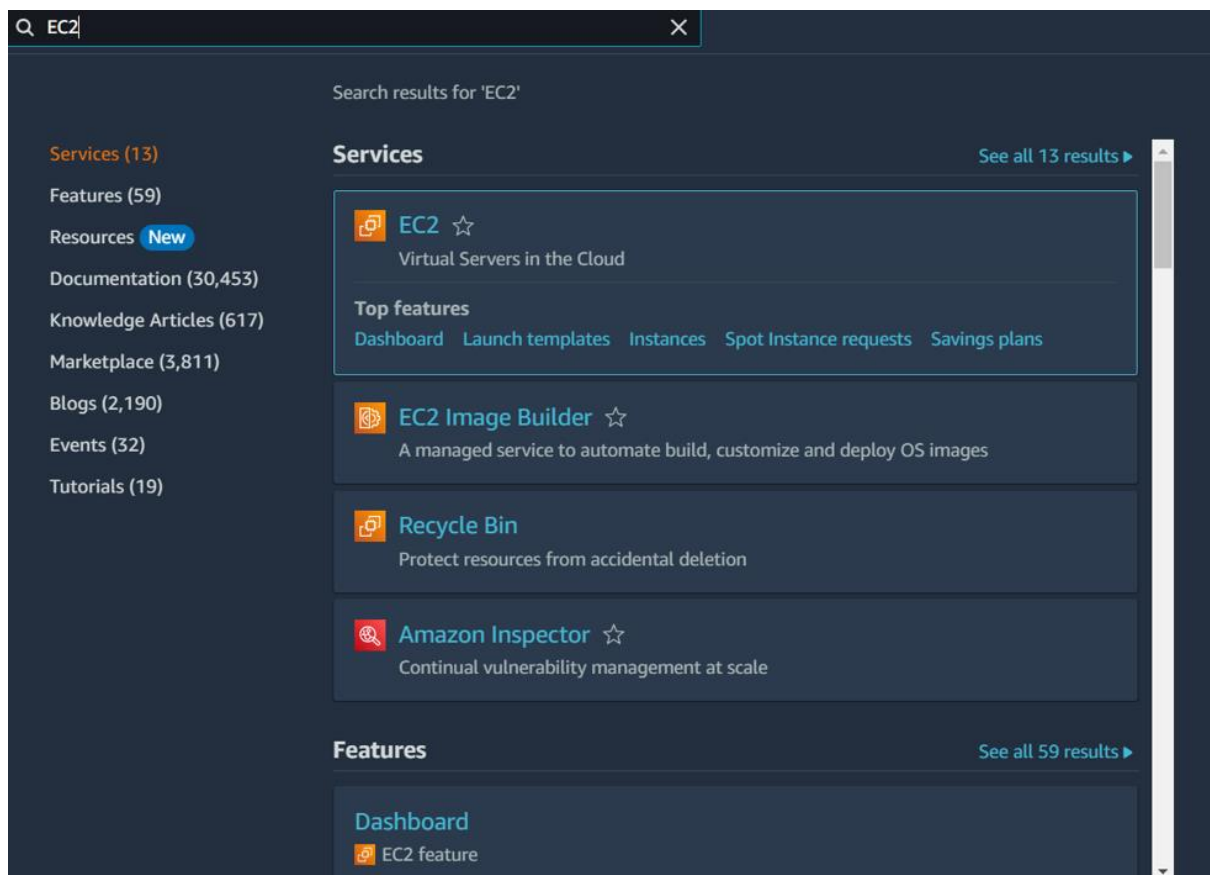
Aarya Arban

T11 - 05

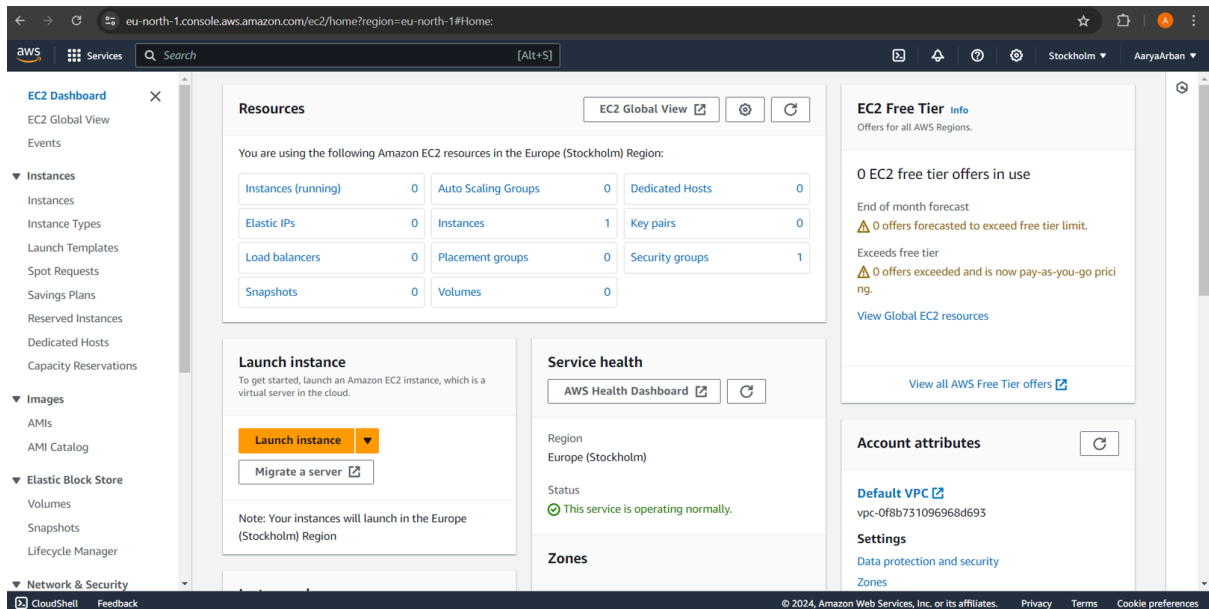
Assignment No. 1 - A

Aim: To implement EC2 service on AWS server

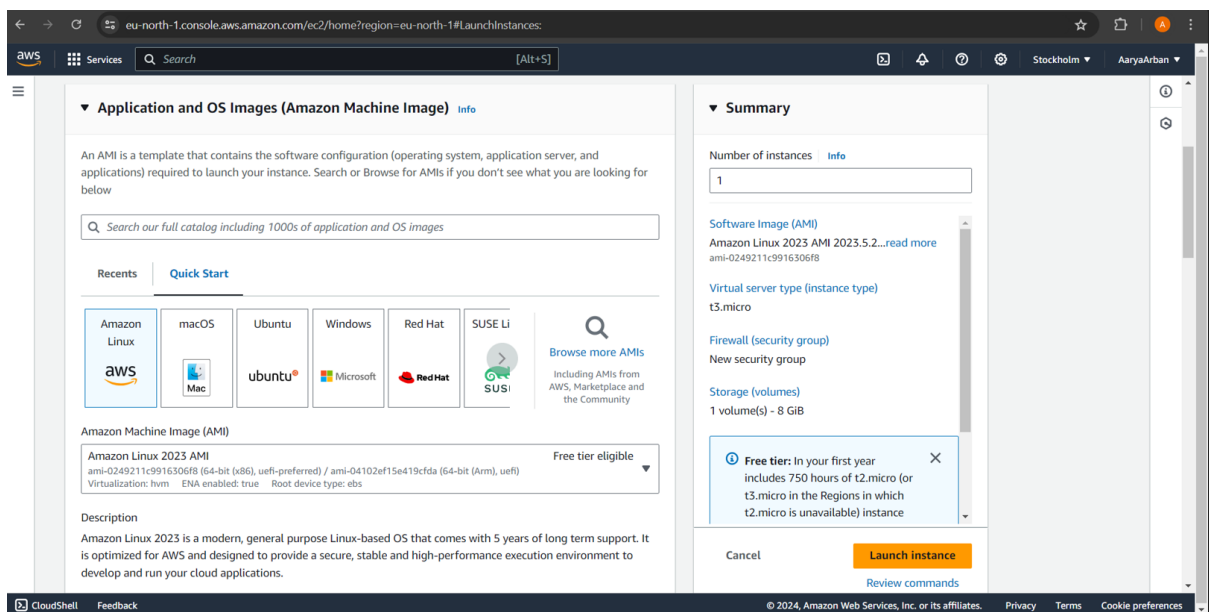
Opening the EC2:



EC2 Dashboard before launching an instance:



Launching an instance:



Select an existing key pair or create a key pair

We noticed that you didn't select a key pair. If you want to be able to connect to your instance it is recommended that you create one or select an existing one.

☐ Create new key pair

☒ Proceed without key pair

Cancel

Launch instance

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:

Services

Search

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EC2 > Instances > Launch an instance

Success

Successfully initiated launch of Instance (i-01f947fe2a375e596)

Launch log

Next Steps

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

Create billing and free tier usage alerts

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

CloudShell

Feedback

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Viewing instances:

The screenshot shows the AWS Management Console 'Instances' page. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, and Network & Security. The main content area displays a table of instances. The instance 'i-01f947fe2a375e596' is selected, and its details are shown in the right pane. The details pane includes tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. The 'Details' tab is active, showing the instance summary with fields for Instance ID, Public IPv4 address, Private IPv4 addresses, Public IPv4 DNS, Private IP DNS name, Hostname type, IP name, Answer private resource DNS name, and Instance type.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
	i-01067a0670aec0c19	Terminated	t3.micro	-	View alarms +	eu-north-1b	-
<input checked="" type="checkbox"/>	i-01f947fe2a375e596	Running	t3.micro	Initializing	View alarms +	eu-north-1b	ec2-13-

i-01f947fe2a375e596

Instance summary

Instance ID: i-01f947fe2a375e596

Public IPv4 address: 13.60.170.6 | [open address](#)

Private IPv4 addresses: 172.31.32.168

Public IPv4 DNS: ec2-13-60-170-6.eu-north-1.compute.amazonaws.com | [open address](#)

Private IP DNS name (IPv4 only): ip-172-31-32-168.eu-north-1.compute.internal

Hostname type: IP name: ip-172-31-32-168.eu-north-1.compute.internal

Answer private resource DNS name: IPv4 (A)

Instance type: t3.micro

Connecting to Instance:

The screenshot shows the AWS Management Console 'Connect to instance' page. The left sidebar contains navigation links for CloudShell and Feedback. The main content area displays the 'Connect to instance' page for instance 'i-01f947fe2a375e596'. The page has tabs for EC2 Instance Connect, Session Manager, SSH client, and EC2 serial console. The 'EC2 Instance Connect' tab is selected. The page shows the instance ID, connection type, public IP address, and username. The 'Connect using EC2 Instance Connect' option is selected. A note at the bottom states: 'Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.'

Connect to instance

Connect to your instance i-01f947fe2a375e596 using any of these options

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID: i-01f947fe2a375e596

Connection Type

☒ Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

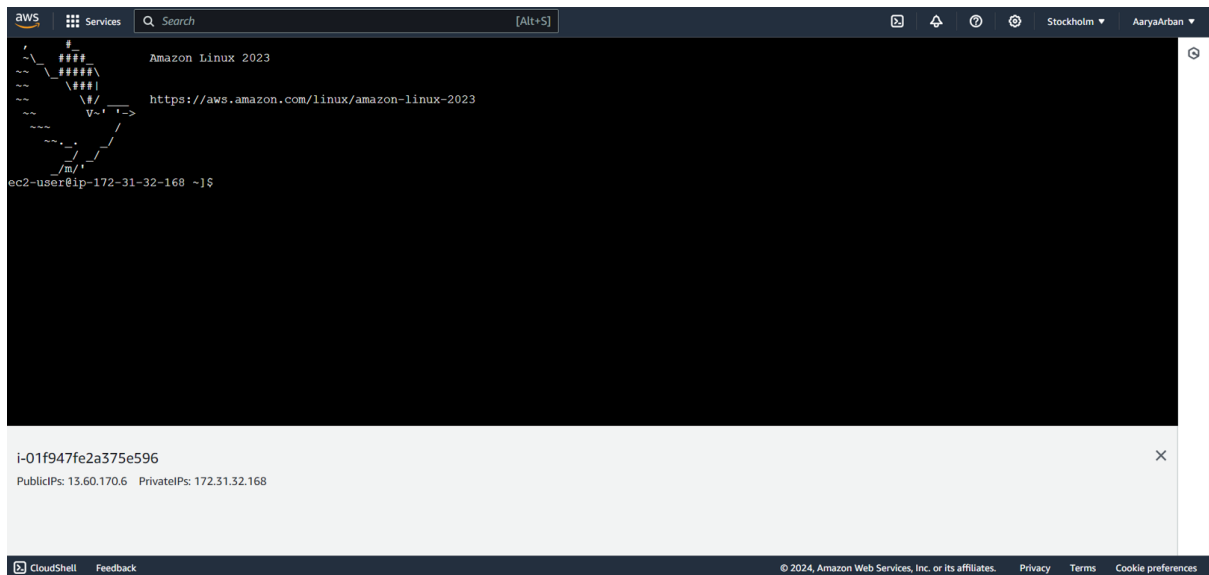
☐ Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address: 13.60.170.6

Username: ec2-user


Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel | **Connect**





Terminating Instance:

Terminate instance?

 On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

Instance ID	Termination protection
 i-01f947fe2a375e596	 Disabled

To confirm that you want to terminate the instances, choose the terminate button below. Instances with termination protection enabled will not be terminated. Terminating the instance cannot be undone.

Cancel Terminate

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EC2 Dashboard EC2 Global View Events

▼ Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

▼ Images

- AMIs
- AMI Catalog

▼ Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

▼ Network & Security

CloudShell Feedback

Successfully initiated termination of i-01f947fe2a375e596

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

All states

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>		i-01067a0670aec0c19	Terminated	t3.micro	-	View alarms +	eu-north-1b	-
<input checked="" type="checkbox"/>		i-01f947fe2a375e596	Shutting-down	t3.micro	Initializing	View alarms +	eu-north-1b	ec2-13-60-170-6.eu-north-1.compute.amazonaws.com

i-01f947fe2a375e596

Details Status and alarms Monitoring Security Networking Storage Tags

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-01f947fe2a375e596	13.60.170.6 open address	172.31.32.168
IPv6 address	Instance state	Public IPv4 DNS
-	Shutting-down	ec2-13-60-170-6.eu-north-1.compute.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-32-168.eu-north-1.compute.internal	ip-172-31-32-168.eu-north-1.compute.internal	-
Answer private resource DNS name	Instance type	
IPv4 (A)	t3.micro	

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Viewing Security Groups:

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EC2 Dashboard EC2 Global View Events

▼ Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

▼ Images

- AMIs
- AMI Catalog

▼ Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

▼ Network & Security

CloudShell Feedback

Security Groups (2) Info

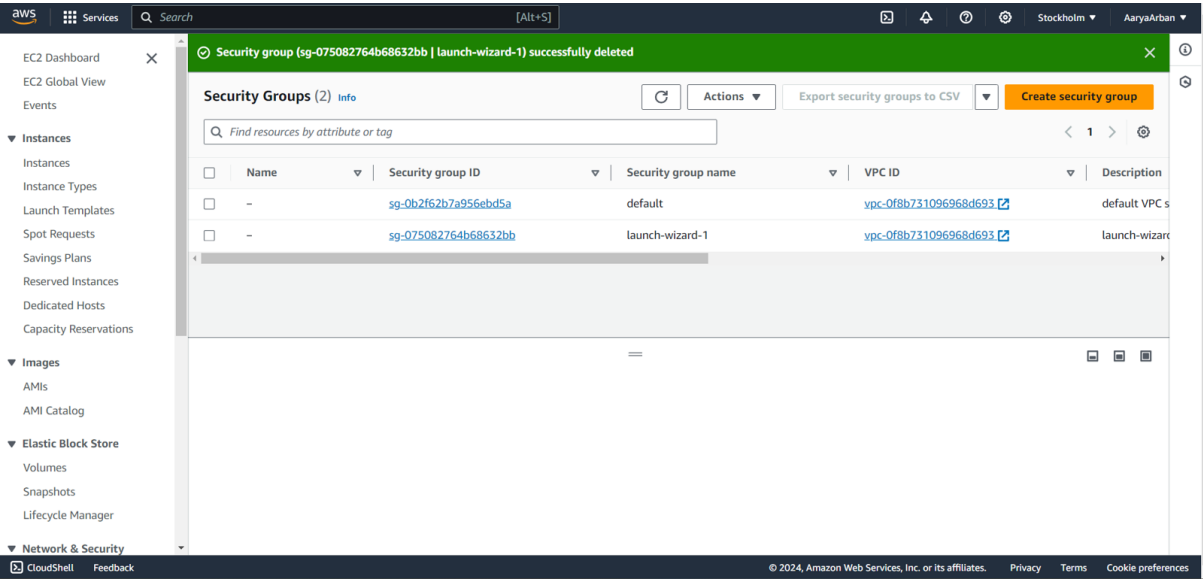
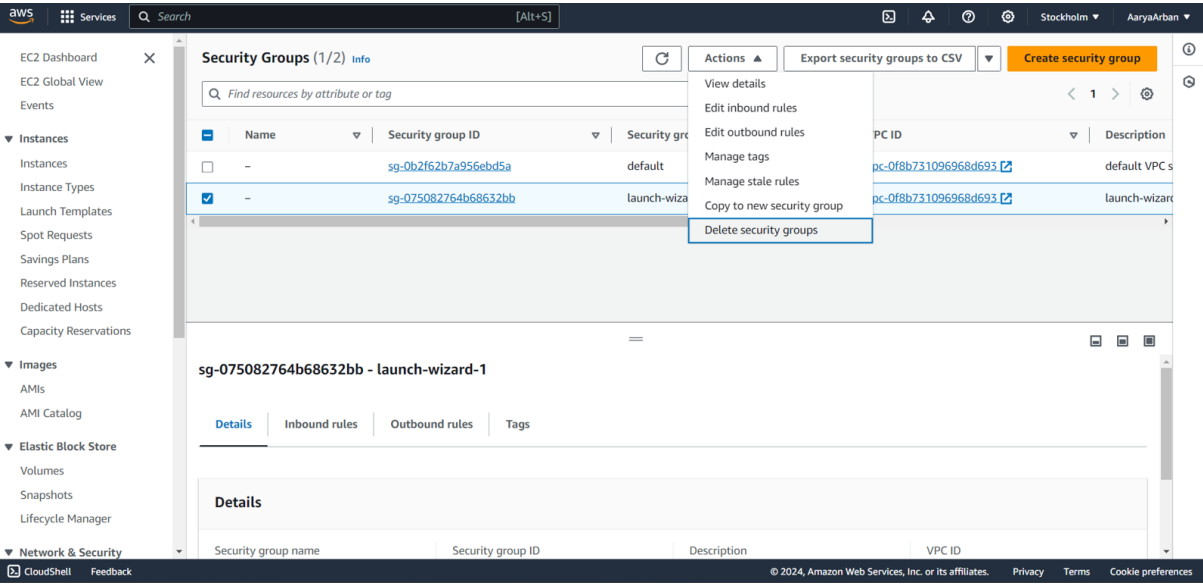
Find resources by attribute or tag

Actions Export security groups to CSV Create security group

	Name	Security group ID	Security group name	VPC ID	Description
<input type="checkbox"/>	-	sg-0b2f62b7a956ebd5a	default	vpc-0f8b731096968d693	default VPC s
<input type="checkbox"/>	-	sg-075082764b68632bb	launch-wizard-1	vpc-0f8b731096968d693	launch-wizar

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Deleting Security Group:



Dashboard after termination of instance:

The screenshot shows the AWS Management Console dashboard for the Stockholm region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, and Network & Security. The main content area is divided into several sections:

- Resources:** A table showing the usage of Amazon EC2 resources in the Europe (Stockholm) Region. The table has two columns: Resource and Count. The resources and their counts are: Instances (running) 0, Elastic IPs 0, Load balancers 0, Snapshots 0, Auto Scaling Groups 0, Instances 1, Placement groups 0, Volumes 0, Dedicated Hosts 0, Key pairs 0, and Security groups 1.
- Launch instance:** A section with a "Launch instance" button and a "Migrate a server" link. Below the buttons, it says: "Note: Your instances will launch in the Europe (Stockholm) Region".
- Service health:** A section with an "AWS Health Dashboard" link. It shows the Region as Europe (Stockholm) and the Status as "This service is operating normally."
- EC2 Free Tier:** A section showing "0 EC2 free tier offers in use". It includes an "End of month forecast" and a warning: "0 offers forecasted to exceed free tier limit." It also states: "Exceeds free tier" and "0 offers exceeded and is now pay-as-you-go pricing." There is a link to "View Global EC2 resources".
- Account attributes:** A section showing the "Default VPC" as vpc-0f8b731096968d693. It also has links for "Settings", "Data protection and security", and "Zones".

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Conclusion: We have implemented Linux server using AWS.