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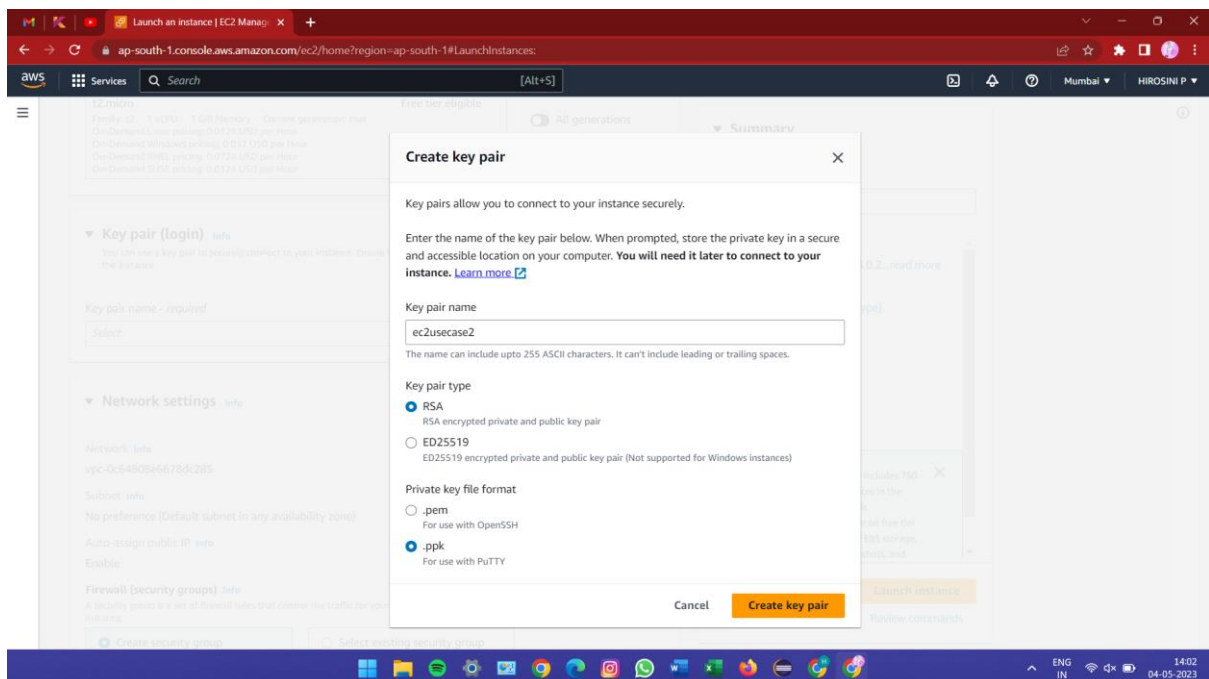
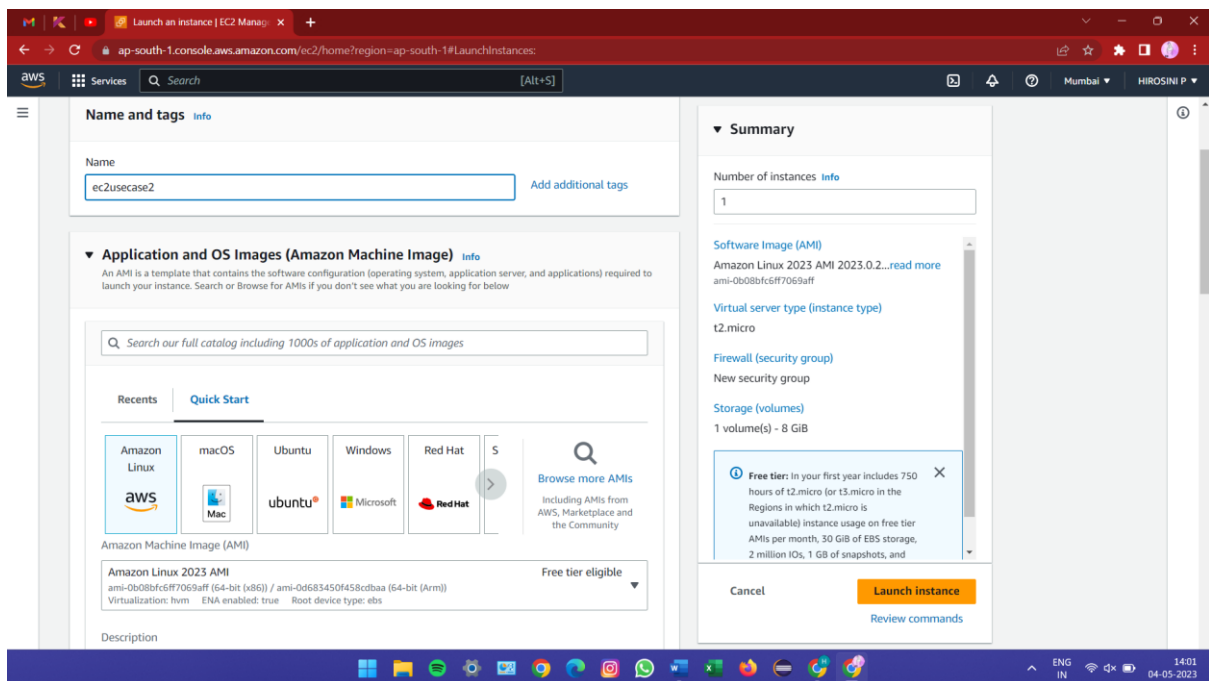
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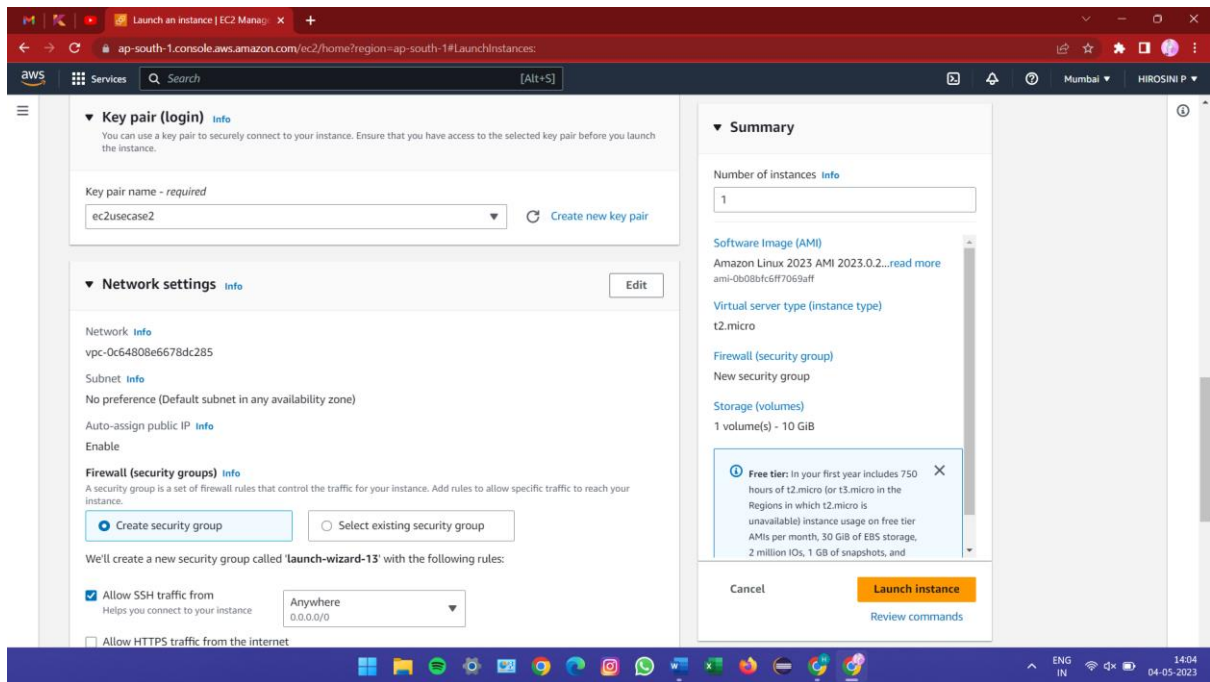
II IT A

CLOUD COMPUTING - CA – 1

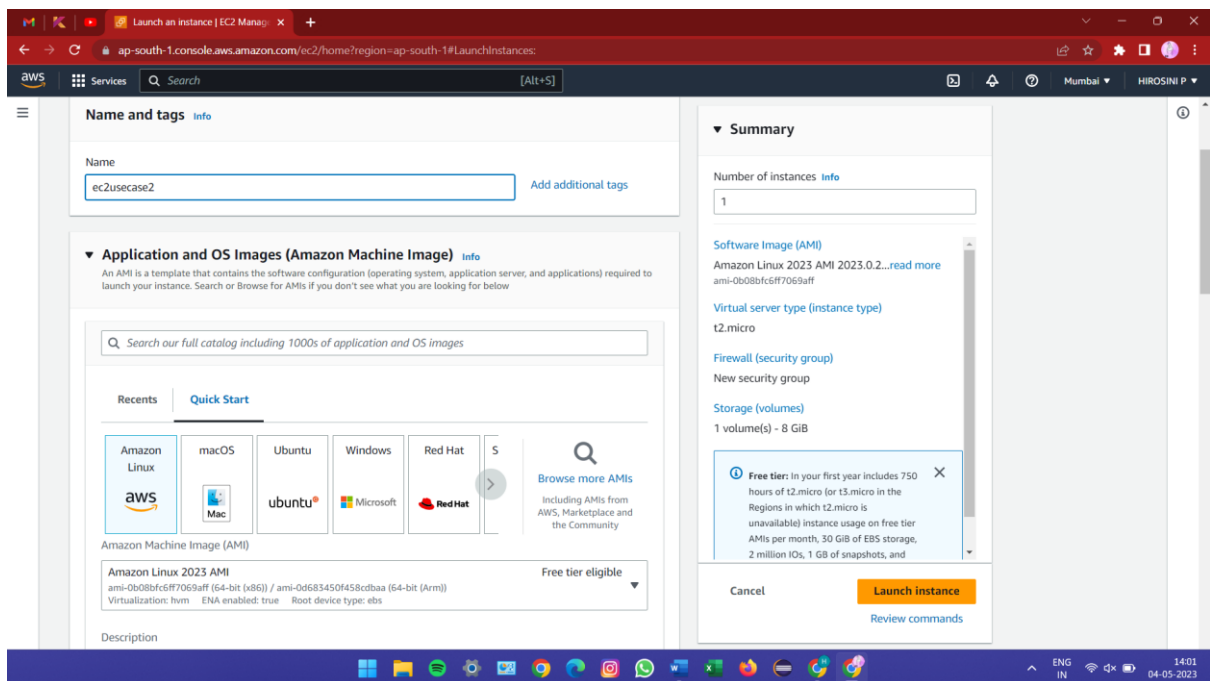
1.

Give the Name tag of both server & keypair as "ec2usecase2"(Name).





Select the AMI from the Amazon Linux OS Platform.



Increase the root EBS volume size to 10 GB from the default size.

The screenshot shows the AWS Management Console 'Launch instance' wizard. The 'Configure storage' section is expanded, showing the root volume size set to 10 GiB. The 'Summary' section on the right shows the configuration details.

Launch instance | EC2 Manager

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

Create security group ☒ **Select existing security group** ☐

We'll create a new security group called 'launch-wizard-13' with the following rules:

- ☒ **Allow SSH traffic from**
Helps you connect to your instance
Anywhere
0.0.0.0/0
- ☐ **Allow HTTPS traffic from the internet**
To set up an endpoint, for example when creating a web server
- ☐ **Allow HTTP traffic from the internet**
To set up an endpoint, for example when creating a web server

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.

Configure storage **Info** **Advanced**

1x 10 GiB gp3 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GiB of EBS General Purpose (SSD) or Magnetic storage

Summary

Number of instances **Info**
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more
ami-0b08bfc6ff7069aff

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 for t3.micro in the Regions in which t2.micro is

Cancel **Launch instance**
[Review commands](#)

CloudShell Feedback Language

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ENG IN 14:04 04-05-2023

Expose Port No.22 for taking putty remote connection.

The screenshot shows the AWS Management Console 'Launch instance' wizard. The 'Configure storage' section is expanded, showing the root volume size set to 10 GiB. The 'Summary' section on the right shows the configuration details.

Launch instance | EC2 Manager

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

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Helps you connect to your instance
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To set up an endpoint, for example when creating a web server
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Amazon Linux 2023 AMI 2023.0.2...read more
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Cancel **Launch instance**
[Review commands](#)

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ENG IN 14:04 04-05-2023

Instance details | EC2 Management Console | Download file | iLovePDF

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-0501e24c39e832ef5

Services Search [Alt+S]

New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Limits

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

IAM Role
-

IMDSv2
Required

Subnet ID
subnet-023a1aca26a4ea766

Auto Scaling Group name
-

Details Security Networking Storage Status checks Monitoring Tags

Security details

IAM Role
-

Owner ID
621510456507

Launch time
Thu May 04 2023 14:06:31 GMT+0530 (India Standard Time)

Security groups
sg-076b304f4bd421ce8 (launch-wizard-13)

Inbound rules

Filter rules

Name	Security group rule ID	Port range	Protocol	Source	Security groups
-	sgr-07a0f8ccfda647935	22	TCP	0.0.0.0/0	launch-wizard-13

Outbound rules

Filter rules

Name	Security group rule ID	Port range	Protocol	Destination	Security groups
-	sgr-0688f830d20d18649	All	All	0.0.0.0/0	launch-wizard-13

Instances | EC2 Management Console

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances

Services Search [Alt+S]

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Capacity Reservations

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
ec2usecase2	i-0501e24c39e832ef5	Running	t2.micro	-	No alarms	ap-south-1b	ec2-3-108-250-6

Launch instances

Instance: i-0501e24c39e832ef5 (ec2usecase2)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID
i-0501e24c39e832ef5 (ec2usecase2)

Public IPv4 address
3.108.250.66 | open address

Private IPv4 addresses
172.31.6.70

Instance state
Running

Public IPv4 DNS
ec2-3-108-250-66.ap-south-1.compute.amazonaws.com | open address

IPv6 address
-

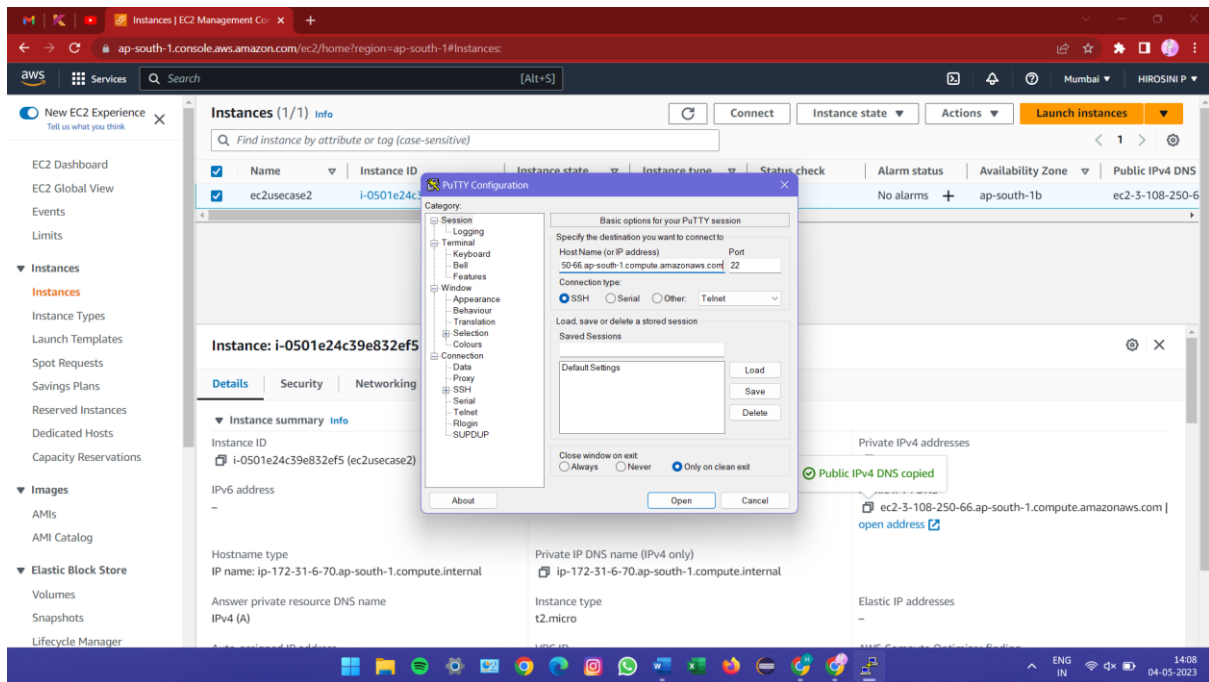
Private IP DNS name (IPv4 only)
ip-172-31-6-70.ap-south-1.compute.internal

Elastic IP addresses
-

Hostname type
IP name: ip-172-31-6-70.ap-south-1.compute.internal

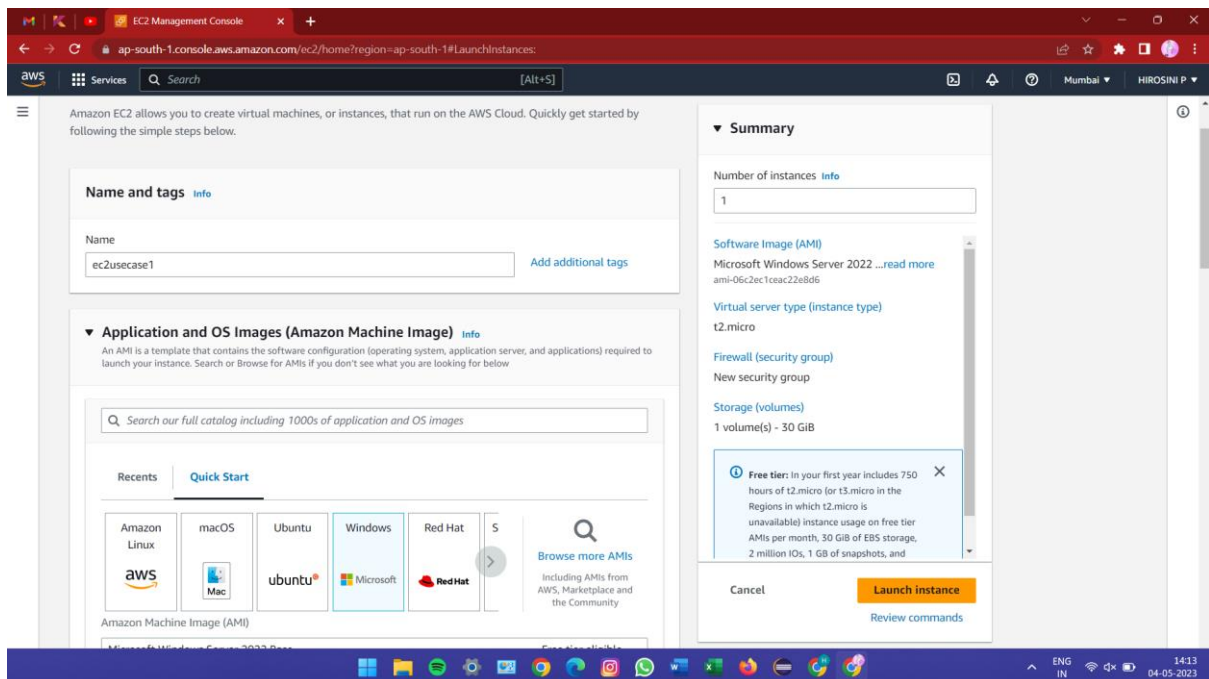
Instance type
t2.micro

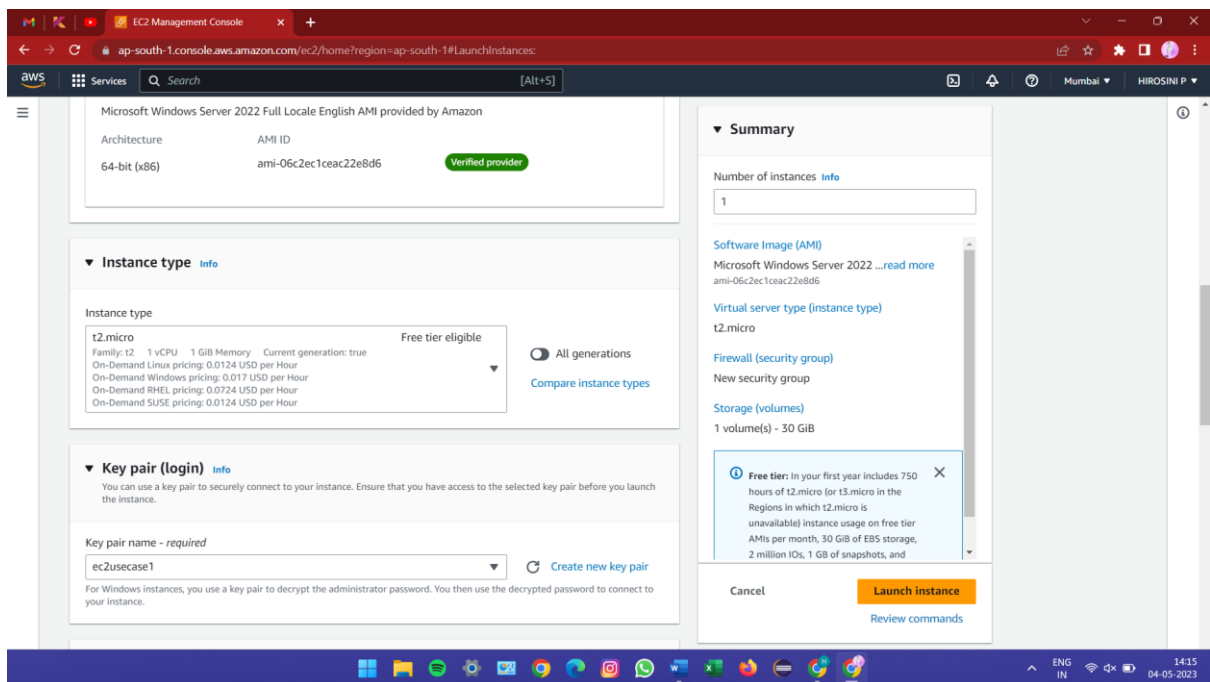
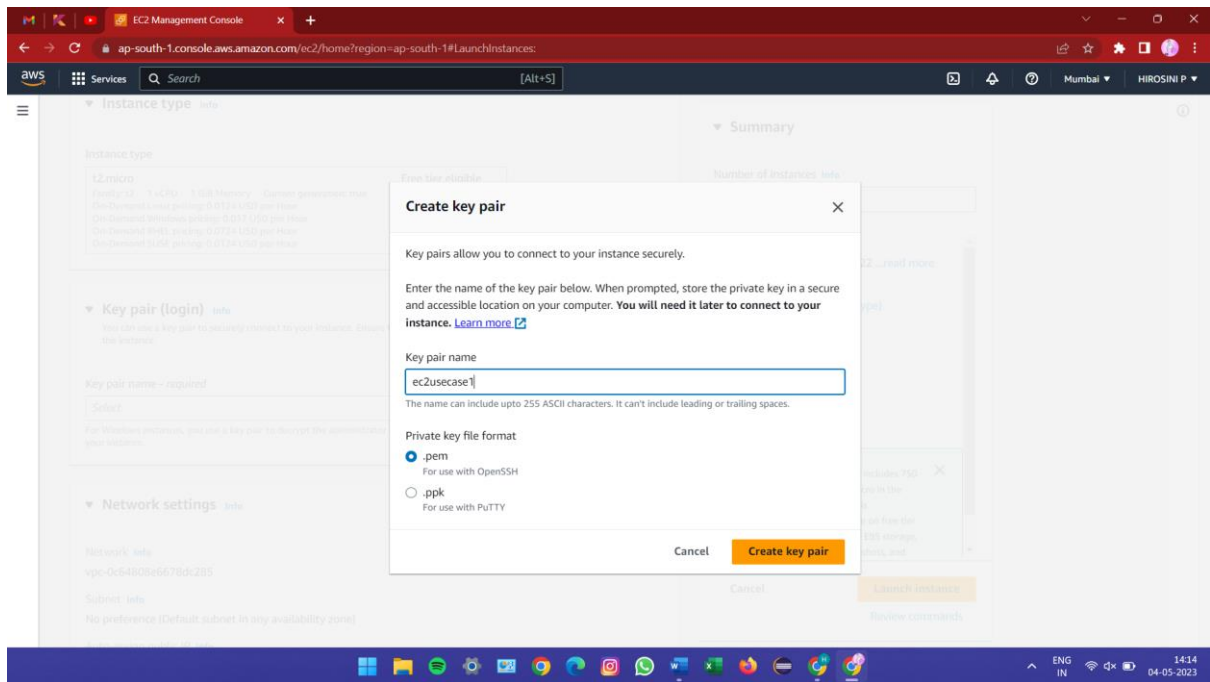
Answer private resource DNS name
IPv4 (A)



2.

Give the Name tag of both server & keypair as "ec2usecase1"(Name).





Select the AMI from the Windows OS Platform.

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 S

Browse more AMIs
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Microsoft Windows Server 2022 Base
ami-06c2ec1ceac22e8d6 (64-bit (x86))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description
Microsoft Windows Server 2022 Full Locale English AMI provided by Amazon

Architecture AMI ID
64-bit (x86) ami-06c2ec1ceac22e8d6 Verified provider

Summary

Number of instances Info
1

Software Image (AMI)
Microsoft Windows Server 2022 ...read more
ami-06c2ec1ceac22e8d6

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 for t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GIB of EBS storage, 2 million IOs, 1 GB of snapshots, and

Cancel Launch instance Review commands

Ensure that Auto-Assigned Public-IP must be enabled.

Network settings info Edit

Network Info
vpc-0c64808e6678dc285

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-15' with the following rules:

☒ Allow RDP traffic from
Helps you connect to your instance Anywhere
0.0.0.0/0

☐ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

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.

Summary

Number of instances Info
1

Software Image (AMI)
Microsoft Windows Server 2022 ...read more
ami-06c2ec1ceac22e8d6

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, 30 GIB of EBS storage, 2 million IOs, 1 GB of snapshots, and

Cancel Launch instance Review commands

Expose Port No.3389 for taking the remote desktop connection.

We'll create a new security group called 'launch-wizard-15' with the following rules:

- ☒ Allow RDP traffic from Anywhere (0.0.0.0/0)
- ☐ Allow HTTPS traffic from the internet
- ☐ Allow HTTP traffic from the internet

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.

Configure storage Info Advanced

1x GiB Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GiB of EBS General Purpose (SSD) or Magnetic storage.

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance.

0 x File systems Edit

Summary

Number of instances Info: 1

Software Image (AMI): Microsoft Windows Server 2022 ...read more
ami-06c2ec1ceac22e8d6

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 for 13 months in the Regions in which t2.micro is unavailable. Instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and

Cancel **Launch instance** Review commands

Instance details | EC2 Management | Download file | iLovePDF

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-0868ec262f9998b66

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Capacity Reservations

Images
AMIs
AMI Catalog

Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

IAM Role:
IMDSv2: Optional

Subnet ID: [subnet-023a1aca26a4ea766](#)

Auto Scaling Group name:
[Learn more](#)

Details **Security** **Networking** **Storage** **Status checks** **Monitoring** **Tags**

Security details

IAM Role:
Owner ID: [621510456507](#)

Security groups: [sg-09e51d7e8845d0c85 \(launch-wizard-15\)](#)

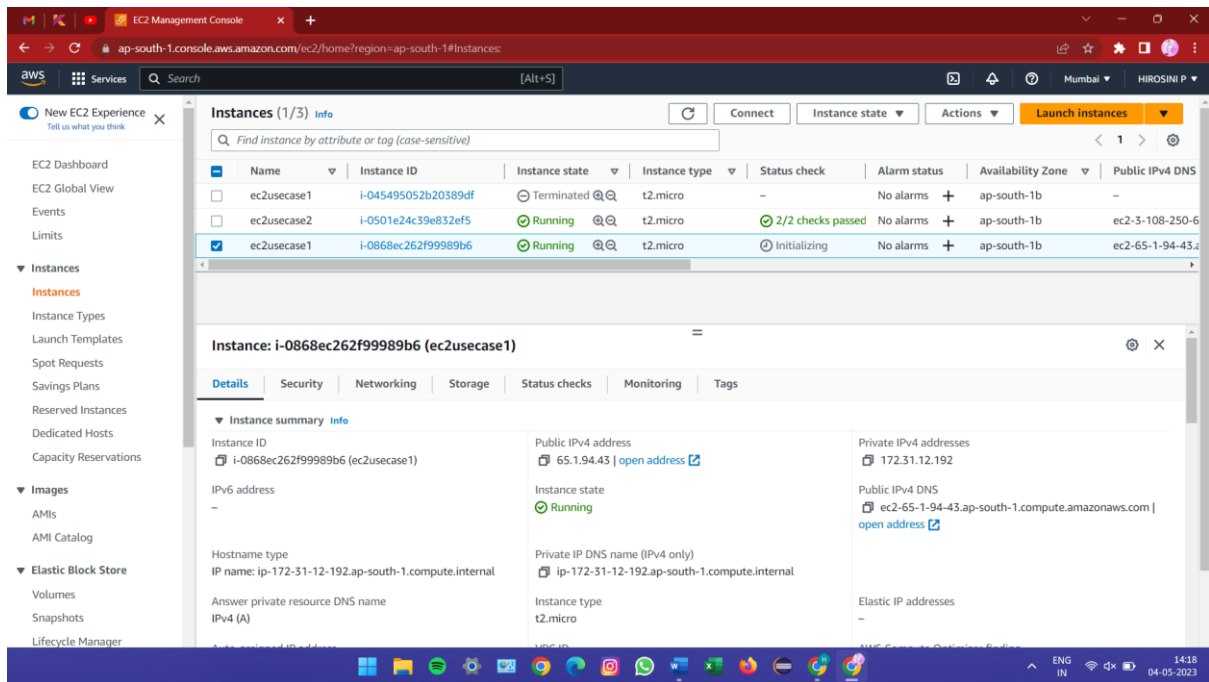
Launch time: **Thu May 04 2023 14:16:30 GMT+0530 (India Standard Time)**

Inbound rules

Name	Security group rule ID	Port range	Protocol	Source	Security groups
-	sgr-0cd31582d779c5e1	3389	TCP	0.0.0.0/0	launch-wizard-15

Outbound rules

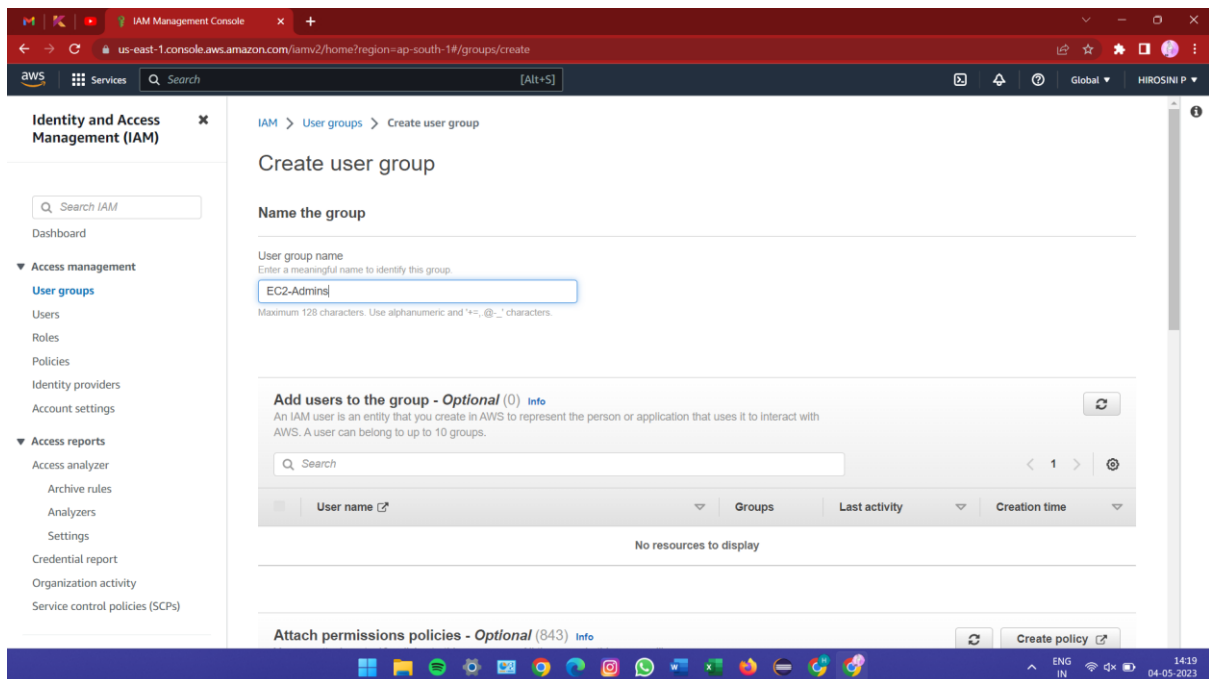
Name	Security group rule ID	Port range	Protocol	Destination	Security groups
-	sgr-015089b1381623c57	All	All	0.0.0.0/0	launch-wizard-15



3.

Create an IAM group called 'EC2-Admins' with 'AmazonEC2FullAccess' and 'AutoScalingFullAccess' policies, then add an IAM user called as 'EC2Admin1'.

The name of the IAM group should be 'EC2-Admins'.



The 'AmazonEC2FullAccess' policy should be attached.

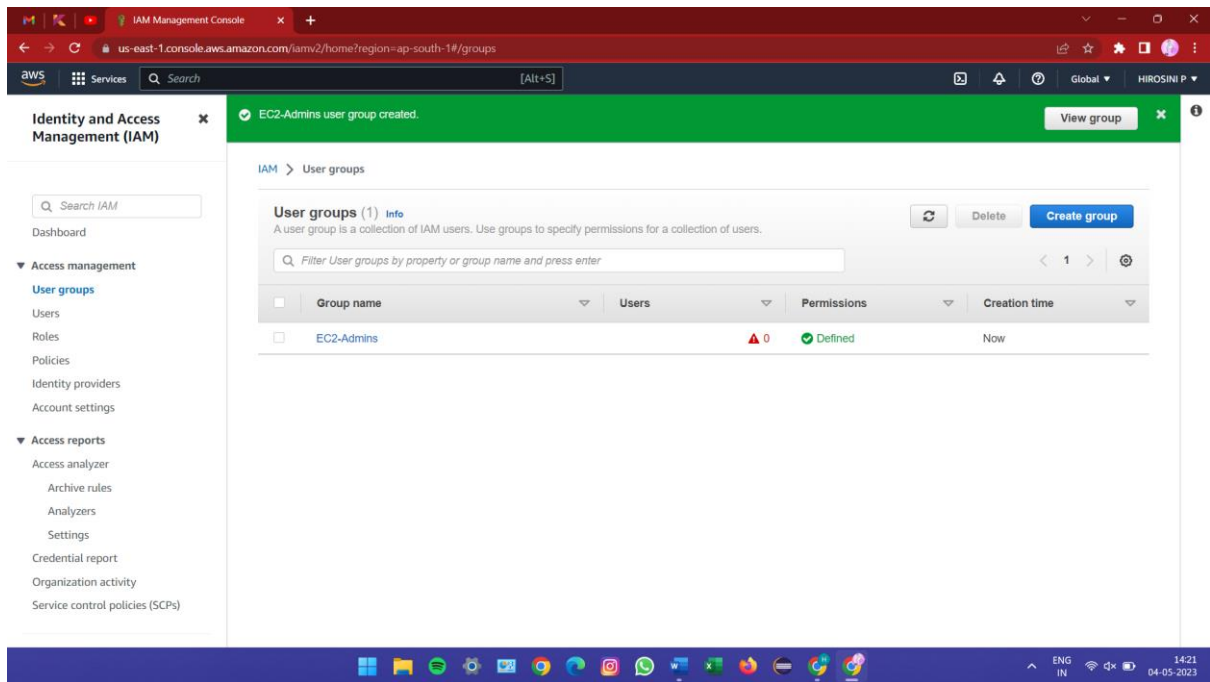
The screenshot shows the AWS IAM Management Console interface. The left sidebar contains navigation links for Identity and Access Management (IAM), Access management, Access reports, and Credential report. The main content area is titled 'Add users to the group - Optional (0) Info'. Below this, there is a search bar and a table of policies. The table has columns for Policy name, Type, and Description. One policy, 'AmazonEC2FullAccess', is selected and highlighted. The table shows it is an AWS managed policy that provides full access to Amazon EC2 resources. At the bottom right, there are 'Cancel' and 'Create group' buttons.

Policy name	Type	Description
AmazonEC2FullAccess	AWS managed	Provides full access to Amazon EC2 resources

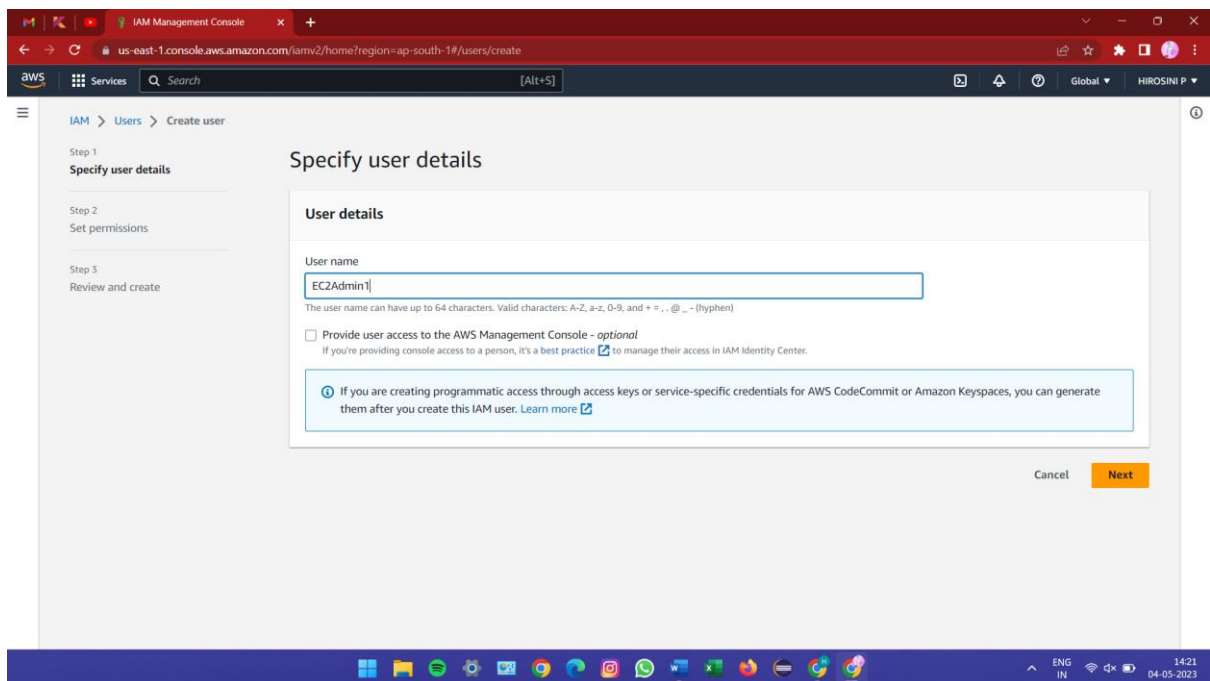
The 'AutoScalingFullAccess' policy should be attached.

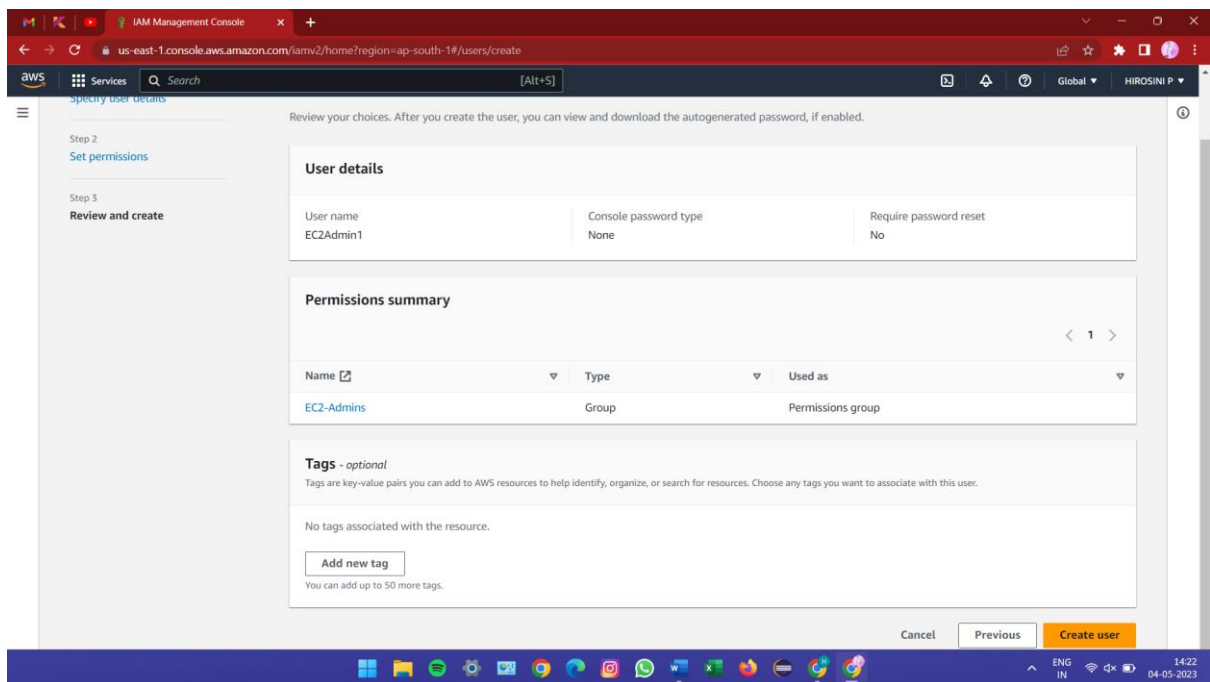
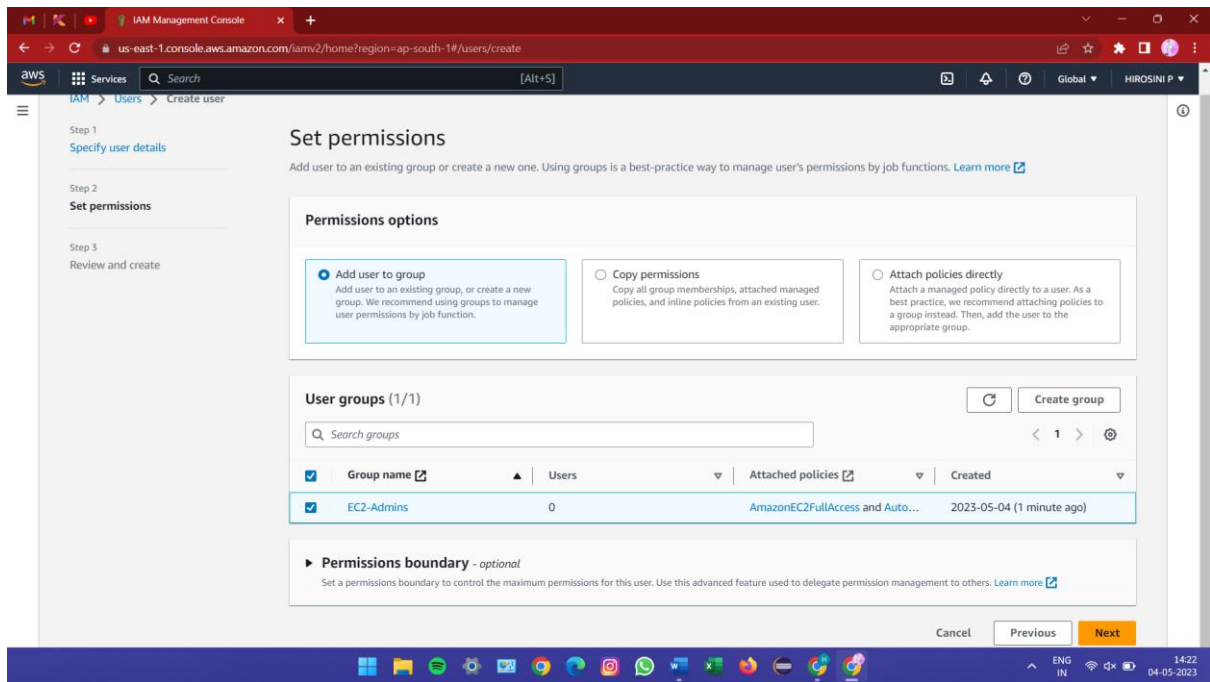
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Policy name	Type	Description
AutoScalingFullAccess	AWS managed	Provides full access to Amazon Auto Scaling resources



The name of the IAM user should be 'EC2Admin1'.





Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analyzers
- Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

User created successfully

You can view and download the user's password and email instructions for signing in to the AWS Management Console.

View user

IAM > Users

Users (1) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Find users by username or access key

EC2Admin1

EC2-Admins

Never

None

None

-

Windows Taskbar

14:22 04-05-2023

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups**
- Users
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- Policies
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- Account settings

Access reports

- Access analyzer
- Archive rules
- Analyzers
- Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

IAM > User groups

User groups (1) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Filter User groups by property or group name and press enter

EC2-Admins

1

Defined

2 minutes ago

Windows Taskbar

14:22 04-05-2023

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)

IAM > User groups

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A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Filter User groups by property or group name and press enter

< 1 >

Group name

Users

Permissions

Creation time

EC2-Admins

1

Defined

9 minutes ago

Users in this group

EC2Admin1

ENG IN

14:30

04-05-2023