

Task 2 : Launch and Manage EC2 Instances

1. Launch an EC2 instance.
2. Assign pre-defined security groups to the instance.
3. Configure permissions for Nginx server access on the web.
4. Install and set up the Nginx server on the instance.
5. Add a custom tag to the instance.

Instances | EC2 | ap-south-1

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

Mumbai rushi @ 3397-1279-8117

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availabi...	Public I...	Public I...
Docker	i-03ac43aadcb8ff4cc	Stopped	t2.micro	-	View alarms +	ap-south-1b	-	-

Select an instance

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ENG IN 18:00 17-07-2024 PRB

The screenshot shows the AWS EC2 Instances page. A red box highlights the 'Launch instances' button in the top right corner of the main content area. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Instances (selected), Instances 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 one instance named 'Docker' with details like Instance ID (i-03ac43aadcb8ff4cc), State (Stopped), Type (t2.micro), and Availability Zone (ap-south-1b). Below the table is a modal titled 'Select an instance'.

Launch an instance | EC2 | ap-south-1 | +

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

Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

EC2 > Instances > Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name Add additional tags

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

CloudShell Feedback

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.5.2...read more
ami-0ec0e125bb6c6e8ec

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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ENG IN 18:02 17-07-2024 PRE

The screenshot shows the AWS EC2 'Launch an instance' wizard. The 'Name and tags' section has a red box around the 'Name' input field containing 'Nginx'. The 'Summary' section on the right shows '1' instance selected, with the 'Launch instance' button highlighted in orange.

The screenshot shows the AWS EC2 console interface for launching a new instance. The left panel displays a catalog of Application and OS Images (Amazon Machine Images), with the Ubuntu entry highlighted by a red box. The right panel provides a summary of the selected configuration, including the number of instances (1), software image (Ubuntu 24.04 LTS), virtual server type (t2.micro), and storage (1 volume - 8 GiB). A callout box highlights the 'Free tier' information, which includes 750 hours of t2.micro usage in eligible regions. At the bottom, there are 'Cancel', 'Launch instance', and 'Review commands' buttons.

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 SUSE Li

ubuntu® Microsoft RedHat SUSI

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-0ad21ae1d0696ad58 (64-bit (x86)) / ami-01f6c796d6dbc1e36 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Ubuntu Server 24.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Architecture AMI ID

▼ Application and OS Images (Amazon Machine Image) [Info](#)

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 24.04 LTS, ...[read more](#)

ami-0ad21ae1d0696ad58

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

i 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

CloudShell Feedback

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ENG IN 18:03 17-07-2024

Launch an instance | EC2 | ap-south-1 | +

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

aws Services Search [Alt+S]

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Instance type [Info](#) | [Get advice](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0124 USD per Hour
On-Demand Windows base pricing: 0.017 USD per Hour
On-Demand RHEL base pricing: 0.0268 USD per Hour
On-Demand SUSE base pricing: 0.0124 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*

Select Create new key pair

Network settings [Info](#)

Edit

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 24.04 LTS, ...[read more](#)
ami-0ad21ae1d0696ad58

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

Launch instance

Cancel Review commands

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Search      

ENG IN 18:05 17-07-2024 PRE

Launch an instance | EC2 | ap-south-1 X +

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

AWS Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

Instance type
t2.micro Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0124 USD per Hour
On-Demand Windows base pricing: 0.017 USD per Hour
On-Demand RHEL base pricing: 0.0268 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour
Additional costs apply for AMIs with pre-installed software

All generations Compare instance types

▼ 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 fun Create new key pair

▼ Network settings Info Edit
Network Info vpc-02f862f60eb668efd
Subnet Info No preference (Default subnet in any availability zone)

▼ Summary
Number of instances Info 1
Software Image (AMI)
Canonical, Ubuntu, 24.04 LTS, ...read more ami-0ad21ae1d0696ad58
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

Cancel Launch instance Review commands

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Launch and Manage EC2 Instances

Launch an instance | EC2 | ap-south-1 | +

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

Services Search [Alt+S]

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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 gp3 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB 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

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems Edit

Advanced details Info

Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 24.04 LTS, ... read more
ami-0ad21ae1d0696ad58

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

Cancel Launch instance Review commands

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This screenshot shows the AWS EC2 'Launch Instances' wizard. The left panel, highlighted with a red box, is titled 'Configure storage' and shows a single root volume of 8 GiB (gp3). A tooltip indicates that free-tier eligible customers can get up to 30 GB of EBS storage. Below this, a note states that the selected AMI contains more instance store volumes than allowed, and only the first 0 volumes will be accessible. There's also a note about refreshing for backup information and tags. The right panel, titled 'Summary', shows the configuration: 1 instance, Canonical Ubuntu 24.04 LTS AMI, t2.micro instance type, a new security group, and 1 volume (8 GiB). A second tooltip for the free tier is present here. At the bottom are 'Cancel', 'Launch instance' (in orange), and 'Review commands' buttons.

Launch an instance | EC2 | ap-south-1 | +

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

Services Search [Alt+S]

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 Advanced

1x 8 GiB gp3 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB 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

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems Edit

Advanced details Info

Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 24.04 LTS, ...read more
ami-0ad21ae1d0696ad58

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

Cancel Launch instance Review commands

CloudShell Feedback

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This screenshot shows the AWS EC2 'Launch Instances' wizard. On the left, under 'Configure storage', a root volume of 8 GiB (gp3) is selected. A note indicates that free-tier eligible customers can get up to 30 GB of EBS storage. The 'Summary' section on the right shows one instance being launched with the Canonical, Ubuntu 24.04 LTS AMI. The instance type is set to t2.micro. A red box highlights the 'Launch instance' button at the bottom of the summary panel.

Launch an instance | EC2 | ap-south-1

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

AWS Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

EC2 > Instances > Launch an instance

Success
Successfully initiated launch of instance (i-02639daa56b157d8f)

▶ 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 >

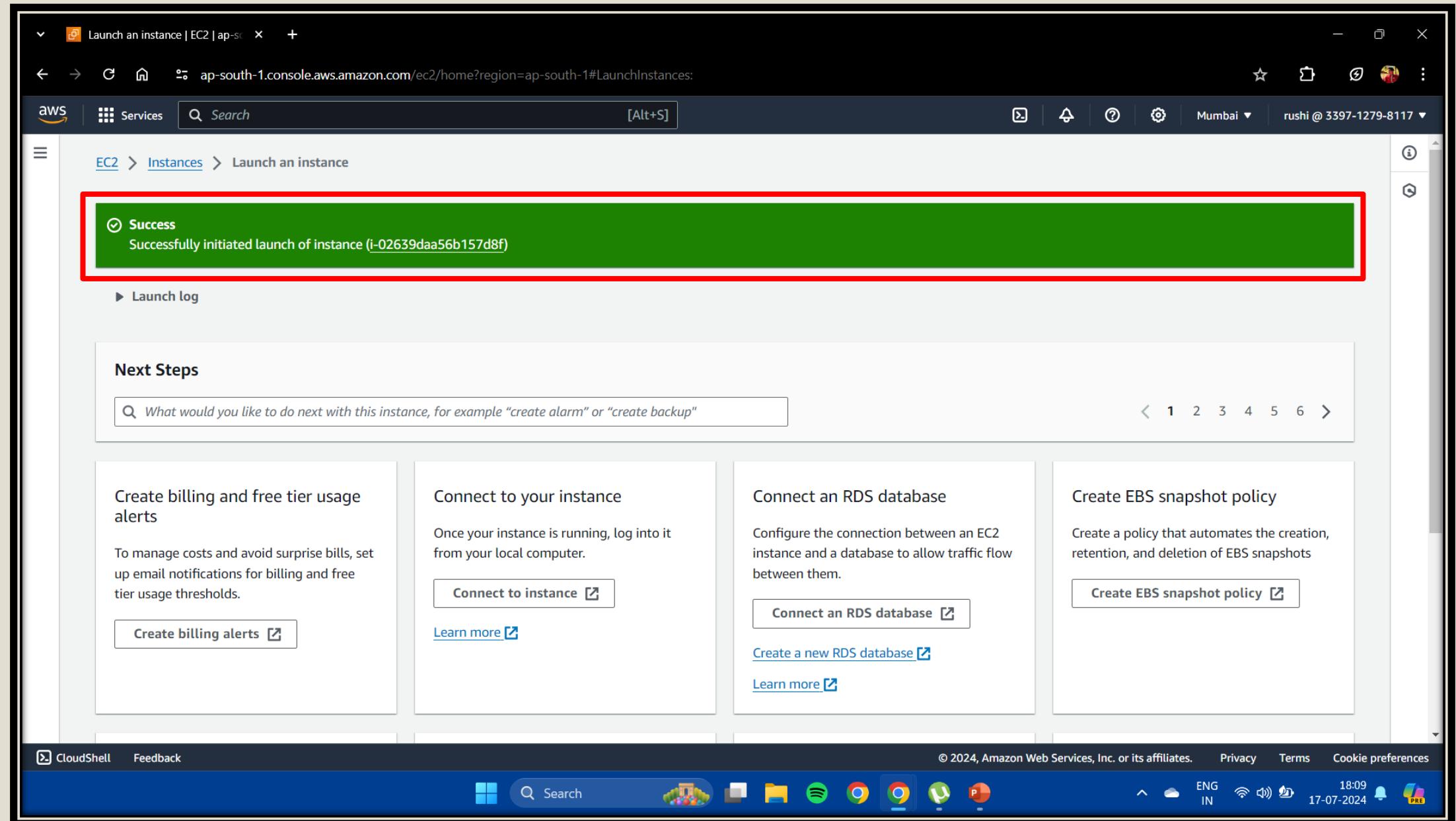
Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

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](#)

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Instances | EC2 | ap-south-1

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

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EC2 Dashboard Services Search [Alt+S]

Instances (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 address	Public IP type
Nginx	i-02639daa56b157d8f	Running	t2.micro	Initializing	View alarms +	ap-south-1a	ec2-13-20...	13.201.115
Docker	i-03ac43aadcb8ff4cc	Stopped	t2.micro	-	View alarms +	ap-south-1b	-	-

Select an instance

CloudShell Feedback

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ENG IN 18:09 17-07-2024 PRE

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with categories like 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 Instances category is expanded, showing two instances: 'Nginx' and 'Docker'. The 'Nginx' instance is highlighted with a red box. The table columns include Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability zone, Public IP address, and Public IP type. At the bottom, there's a 'Select an instance' section and a footer with CloudShell, Feedback, copyright information, and system status icons.

Instances | EC2 | ap-south-1

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

aws Services Search [Alt+S]

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

All states

Connect

Instance state ▾ Actions ▾ Launch instances ▾

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability zone	Public IP	Public IP
<input checked="" type="checkbox"/> Nginx	i-02639daa56b157d8f	Running	t2.micro	Initializing	View alarms +	ap-south-1a	ec2-13-20...	13.201.115...
<input type="checkbox"/> Docker	i-03ac43aadb8ff4cc	Stopped	t2.micro	-	View alarms +	ap-south-1b	-	-

< 1 > ⚙️

i-02639daa56b157d8f (Nginx)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID: i-02639daa56b157d8f (Nginx)

Public IPv4 address: 13.201.115.240 | [open address](#)

IPv6 address: -

Instance state: Running

Public IPv4 DNS: ec2-13-201-115-240.ap-south-1.compute.amazonaws.com | [open address](#)

Hostname type: IP name: ip-172-31-36-101.ap-south-1.compute.internal

Private IP DNS name (IPv4 only): ip-172-31-36-101.ap-south-1.compute.internal

Instance type: t2.micro

Elastic IP addresses: -

Answer private resource DNS name: -

https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-02639daa56b157d8f

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ENG IN 18:10 17-07-2024 PRE

The screenshot shows the AWS EC2 Instances page. A red box highlights the 'Connect' button in the top navigation bar. The main table lists two instances: 'Nginx' (running, t2.micro) and 'Docker' (stopped, t2.micro). The 'Nginx' instance is selected, and its detailed view is shown below, including its public IP address (13.201.115.240), private IP DNS name (ip-172-31-36-101.ap-south-1.compute.internal), and instance type (t2.micro).

Connect to instance | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-02639daa56b157d8f

Services Search [Alt+S]

Mumbai rushi @ 3397-1279-8117

Connect to instance

Connect to your instance i-02639daa56b157d8f (Nginx) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID: i-02639daa56b157d8f (Nginx)

Connection Type:

- Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
Public IP address copied
13.201.115.240
- Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Username: ubuntu

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

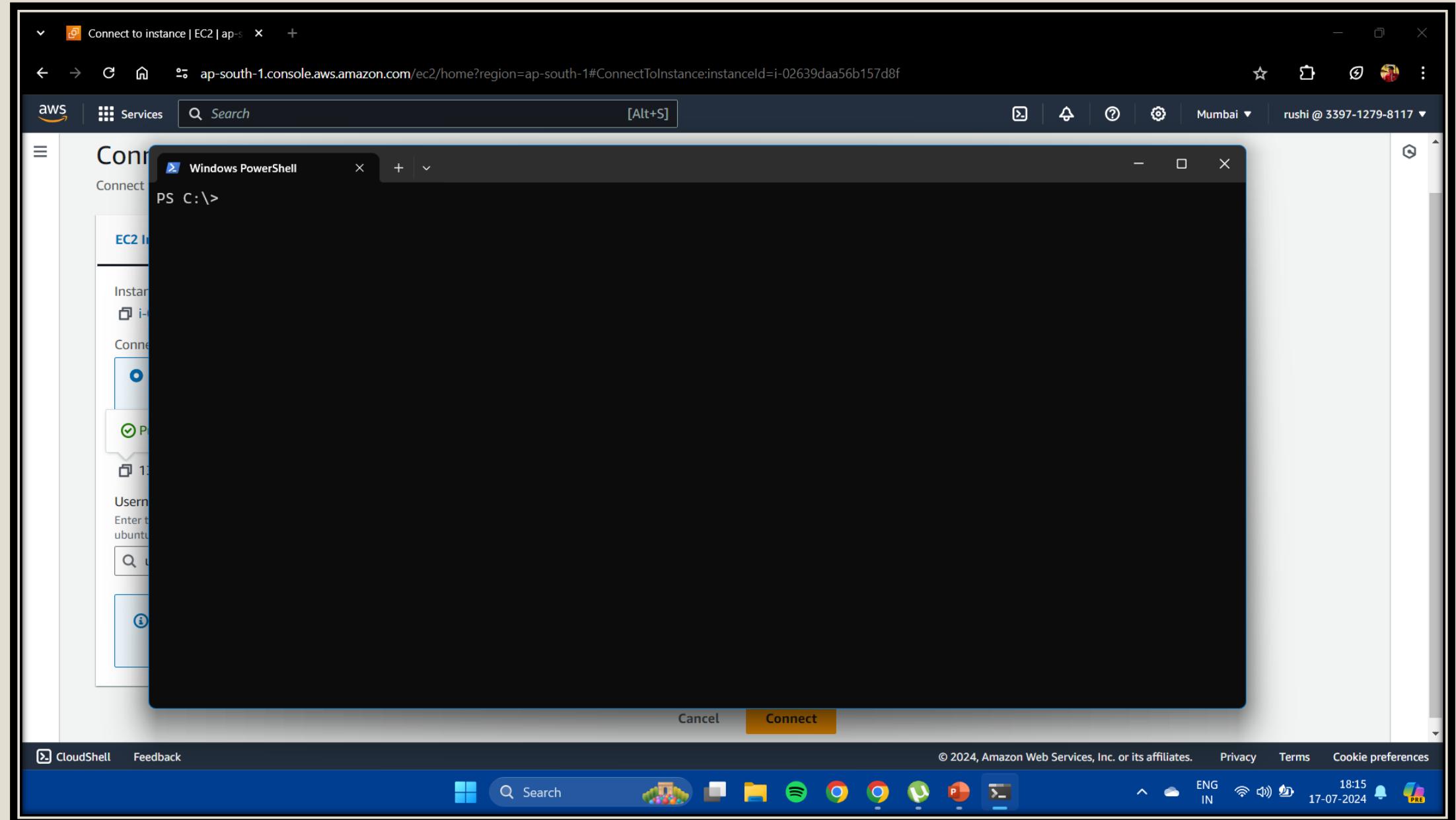
Cancel Connect

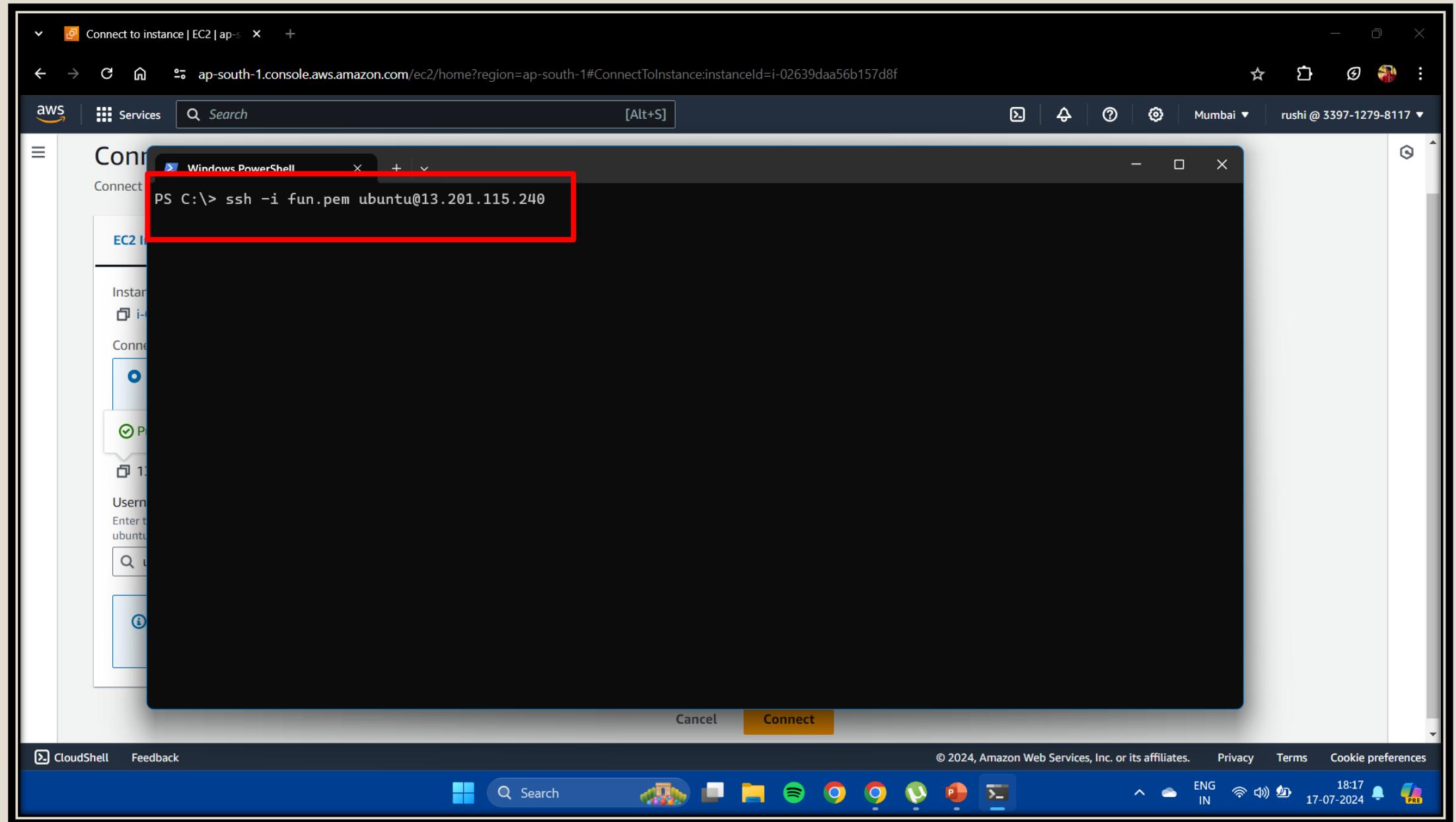
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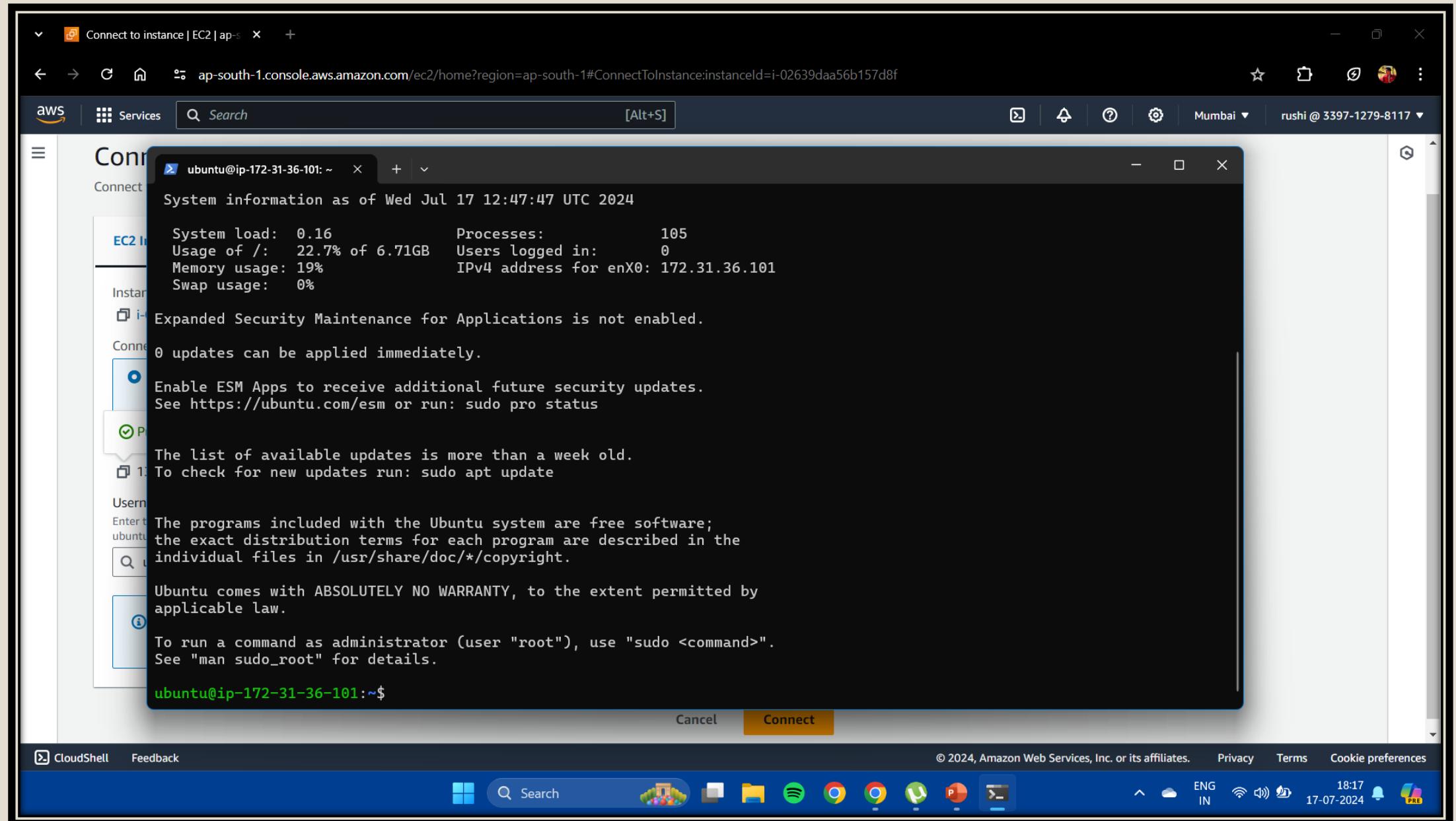
Search

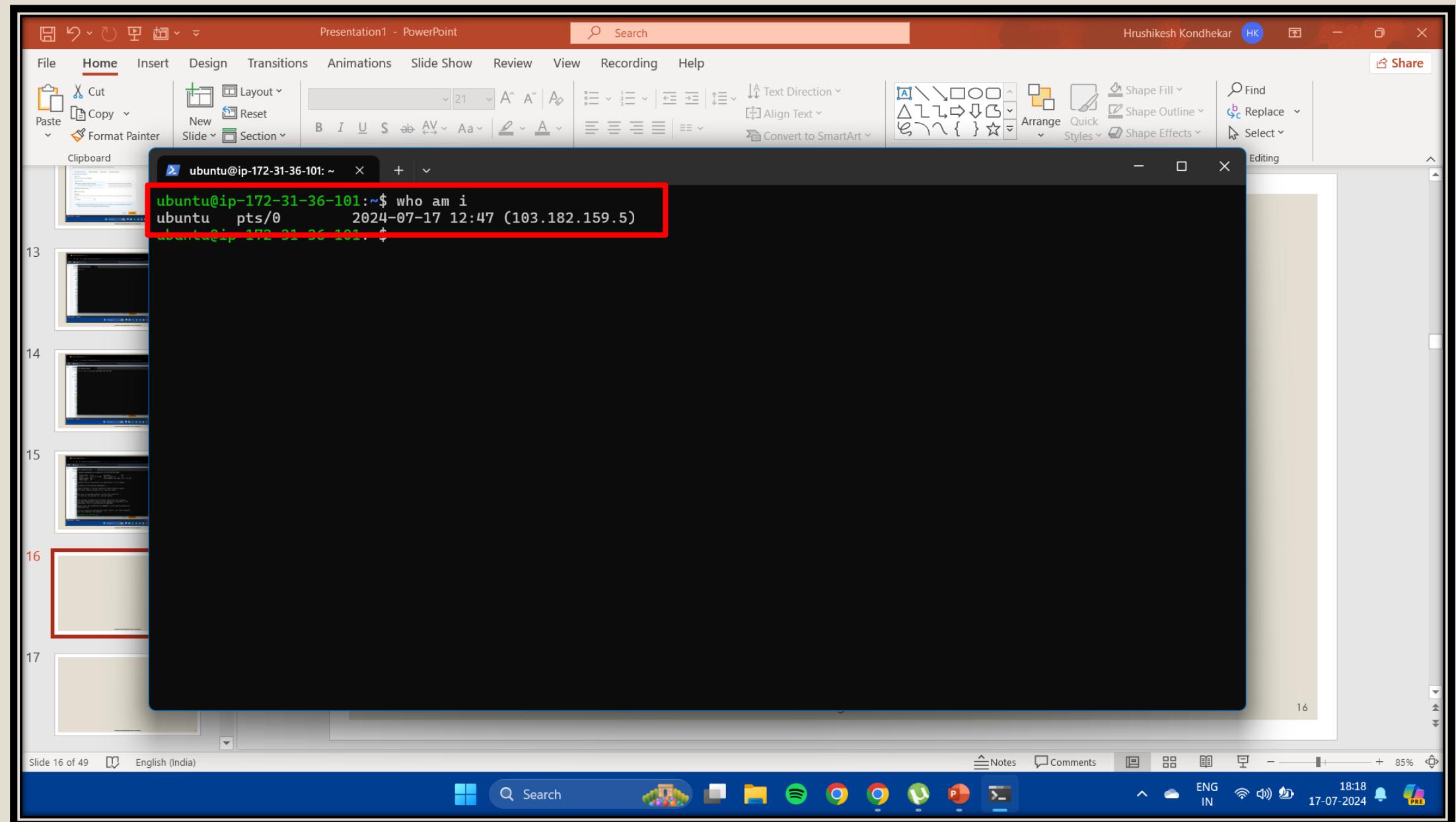
18:11 ENG IN 17-07-2024 PRE

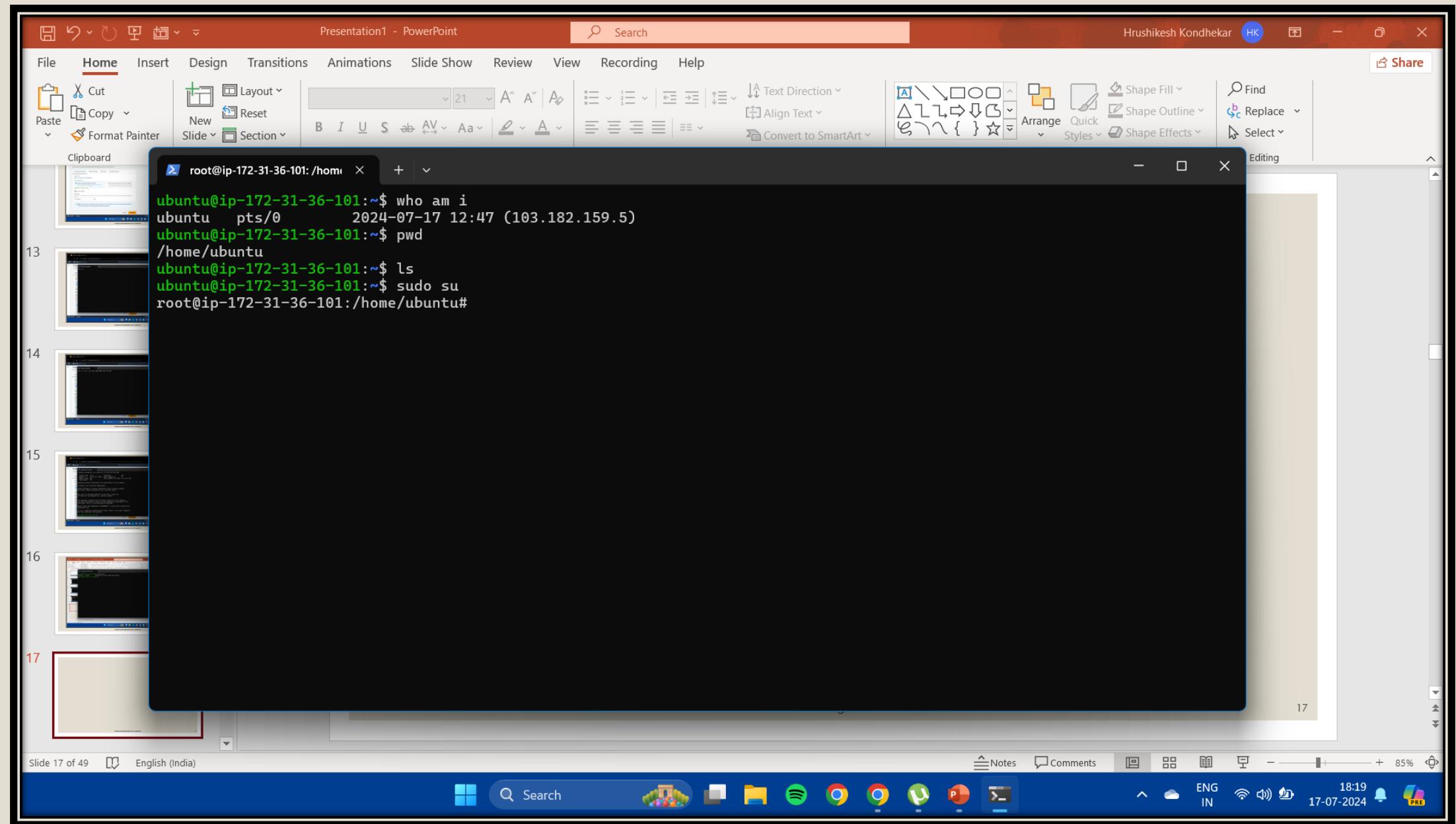
The screenshot shows the 'Connect to instance' page for an EC2 instance. The 'EC2 Instance Connect' tab is selected. The instance ID is listed as 'i-02639daa56b157d8f (Nginx)'. Under 'Connection Type', the 'Connect using EC2 Instance Connect' option is selected, and a message indicates the 'Public IP address copied' (13.201.115.240). A red box highlights this copied IP address. Below this, the 'Username' field contains 'ubuntu'. A note at the bottom states: 'Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.' At the bottom right are 'Cancel' and 'Connect' buttons. The page footer includes links for CloudShell, Feedback, and various AWS services like CloudWatch and Lambda, along with copyright information and system status.







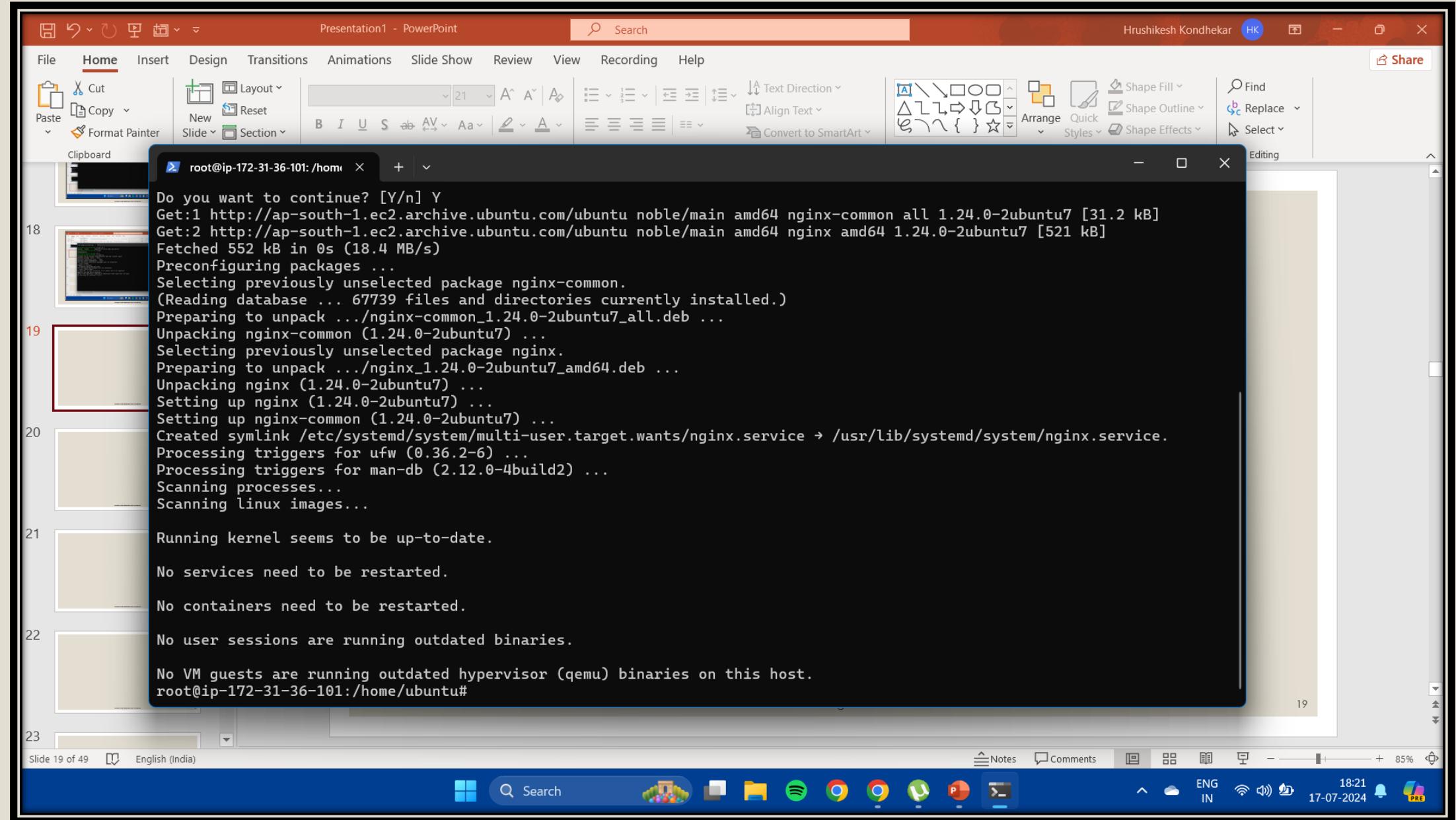


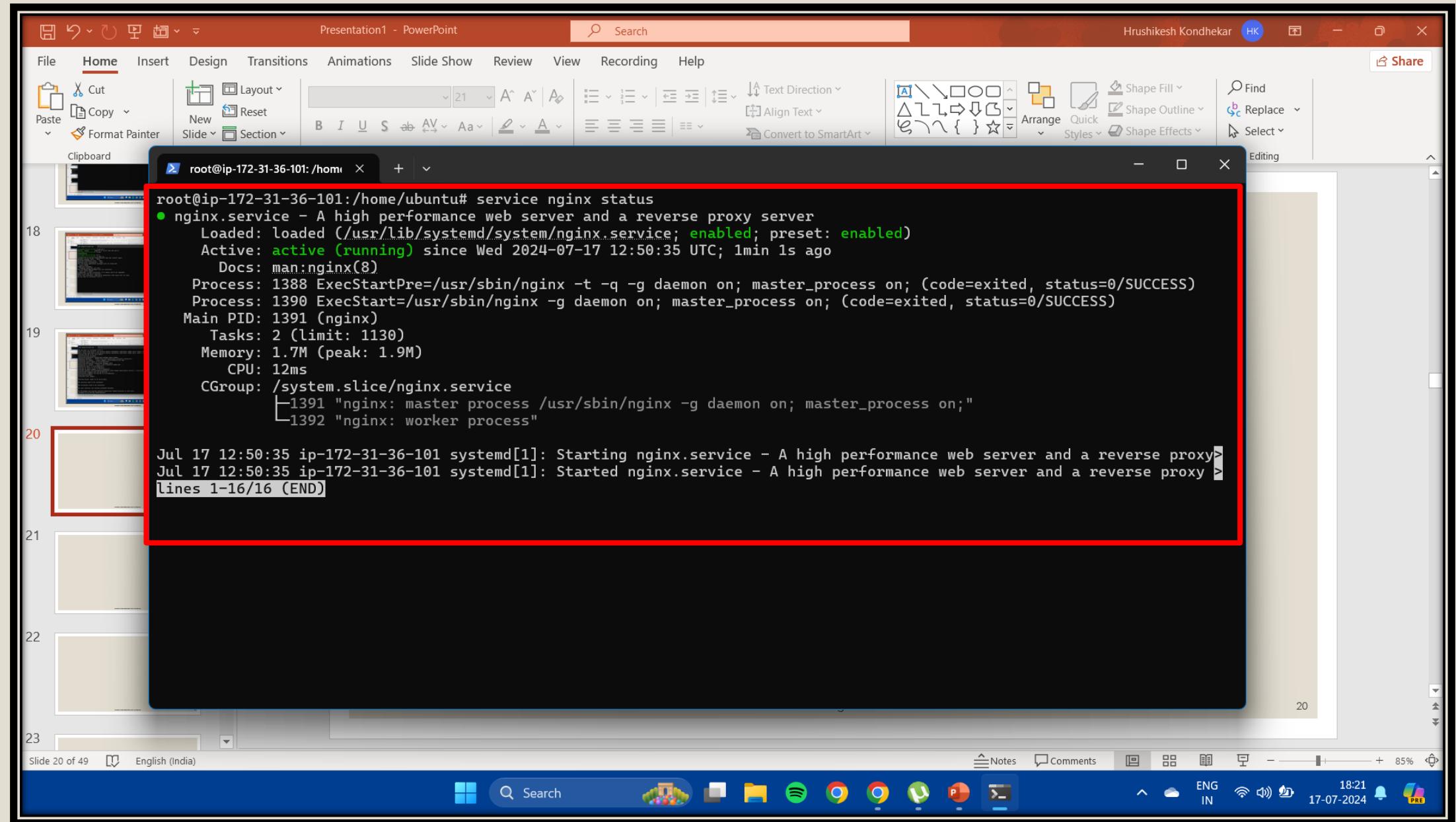


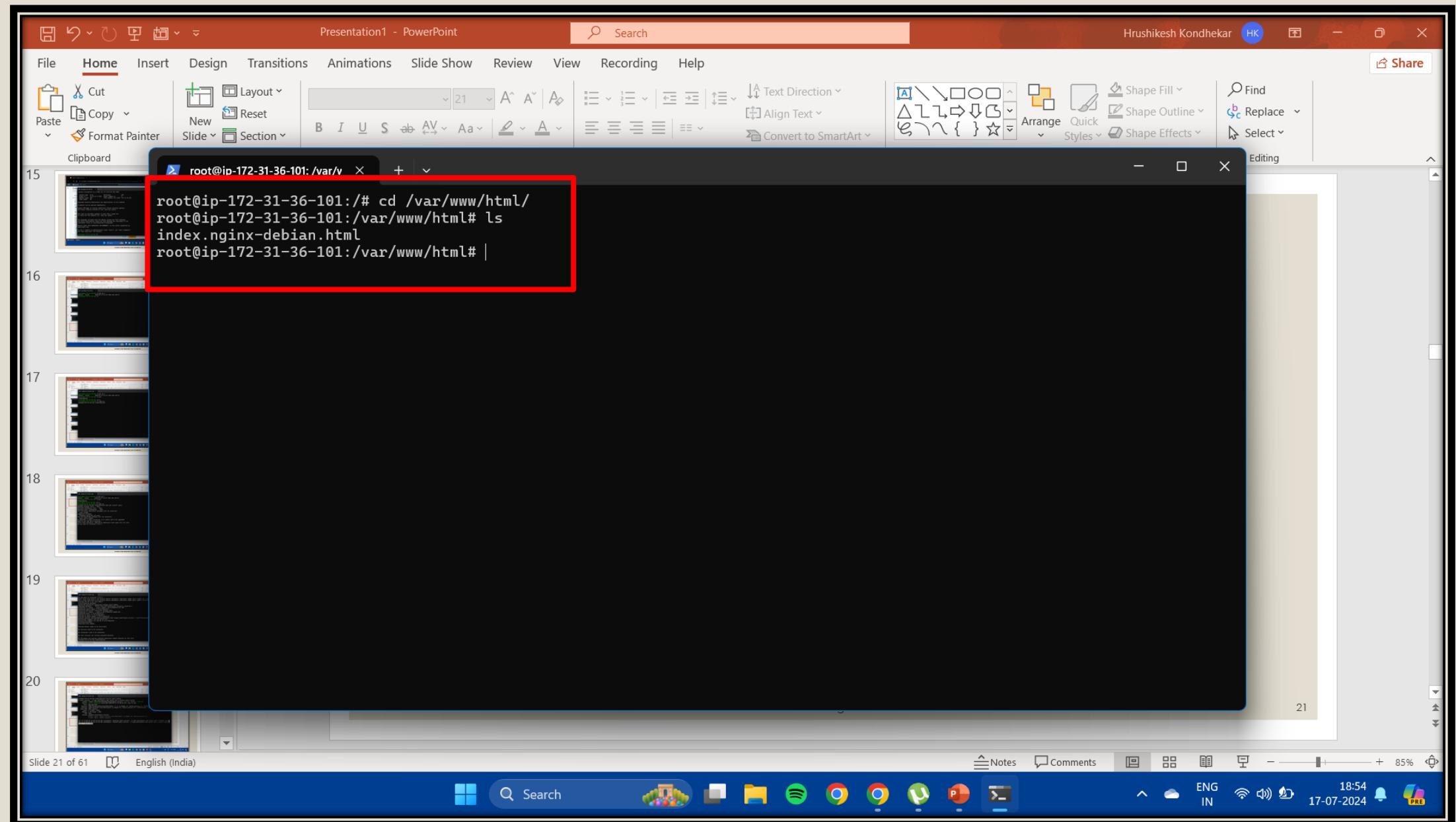
A screenshot of a Microsoft PowerPoint presentation titled "Presentation1 - PowerPoint". The slide content area shows a terminal window with a black background and white text. The terminal output is as follows:

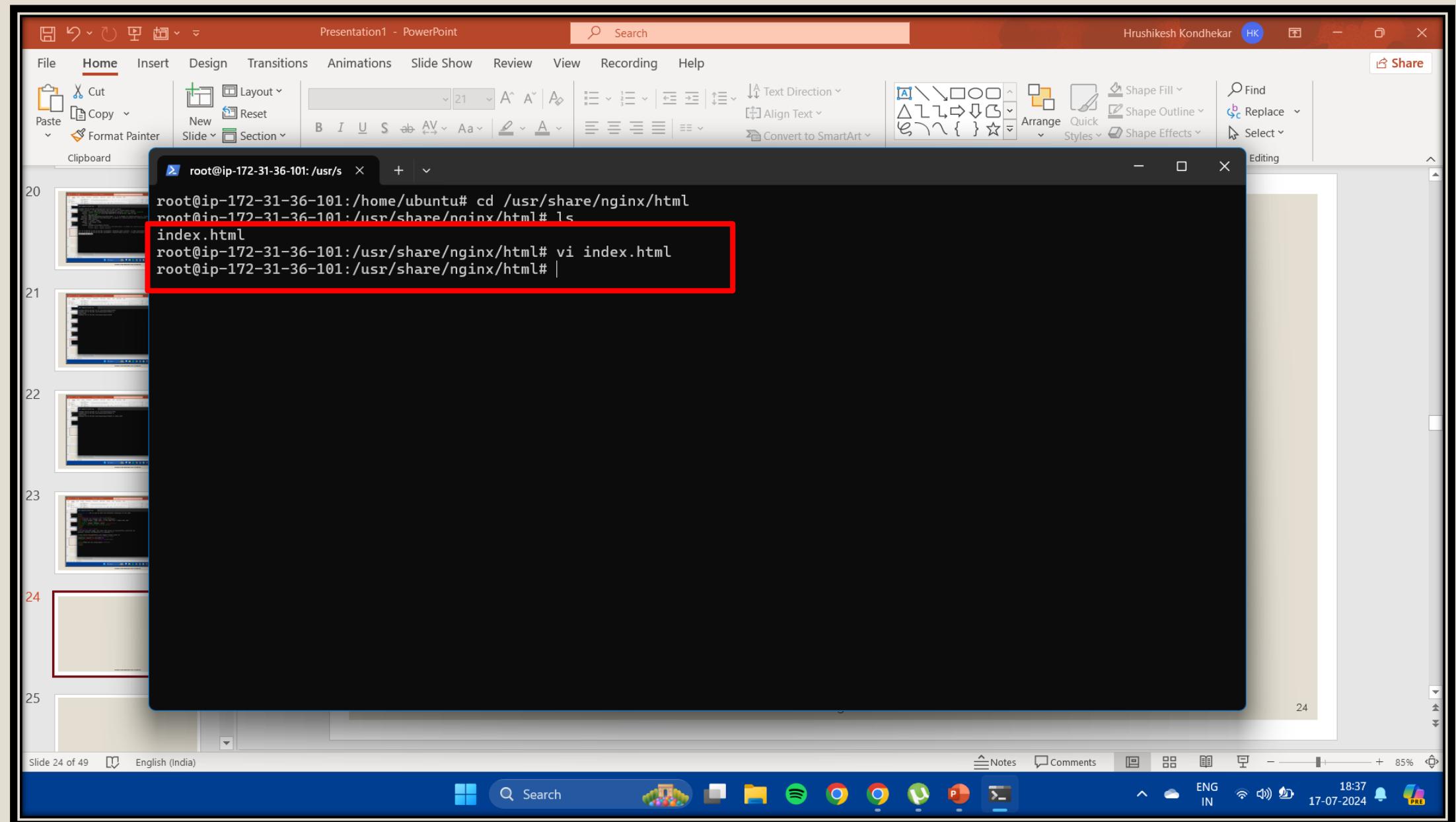
```
root@ip-172-31-36-101:/home/ ~$ who am i
ubuntu      pts/0        2024-07-17 12:47 (103.182.159.5)
ubuntu@ip-172-31-36-101:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-36-101:~$ ls
ubuntu@ip-172-31-36-101:~$ sudo su
root@ip-172-31-36-101:/home/ubuntu# sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 552 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

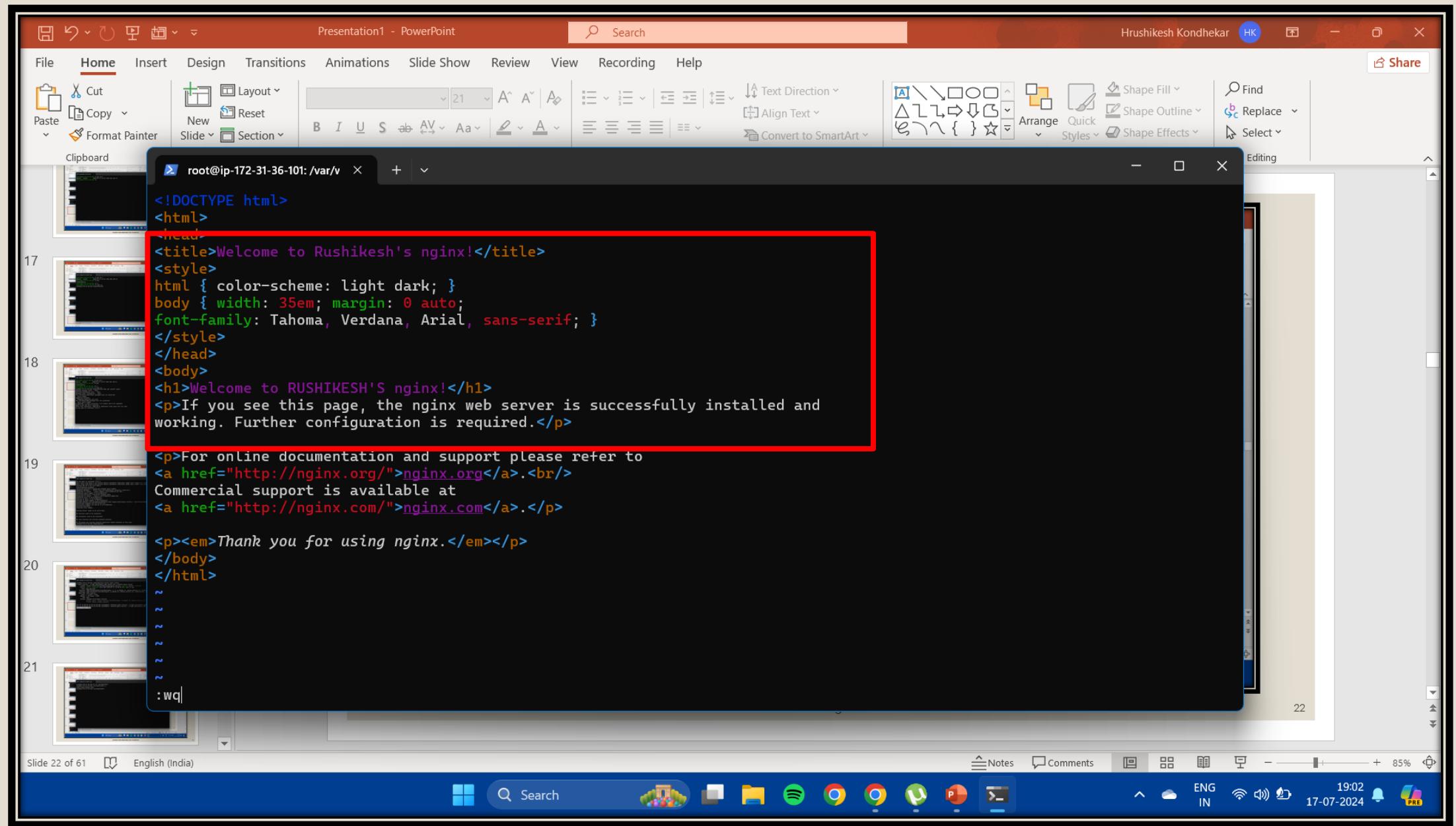
The terminal window is highlighted with a red rectangle. The entire slide has a light beige background. The status bar at the bottom shows "Slide 18 of 49", "English (India)", and various system icons.











Presentation1 - PowerPoint

Hrushikesh Kondhekar HK

File Home Insert Design Transitions Animations Slide Show Review View Recording Help

Clipboard

root@ip-172-31-36-101:/var/www/html ~ %

```
<!DOCTYPE html>
<html>
<head>
<title>Welcome to Rushikesh's nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to RUSHIKESH'S nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>
<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>
<p><em>Thank you for using nginx.</em></p>
</body>
</html>
~ 
~ 
~ 
~ 
~ :wq!
```

Slide 22 of 61 English (India)

Notes Comments

19:02 17-07-2024 ENG IN PRE

Connect to instance | EC2 | ap-south-1 | +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-02639daa56b157d8f

aws Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

Connect to instance Info

Connect to your instance i-02639daa56b157d8f (Nginx) using any of these options

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

Instance ID

Connection Type

Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IP address.
Public IP address copied

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

13.201.115.240

Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

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

https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-02639daa56b157d8f&osUser=ubuntu&sshPort=22 © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Search         ENG IN 18:39 17-07-2024 PRE

The screenshot shows a web browser window with two tabs: "Instances | EC2 | ap-south-1" and "EC2 Instance Connect | ap-south-1". The main content area displays a terminal session on an Ubuntu 24.04 LTS instance. The terminal output includes:

```
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1009-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Wed Jul 17 13:09:20 UTC 2024

System load: 0.0          Processes:      112
Usage of /: 23.1% of 6.71GB  Users logged in:    1
Memory usage: 21%
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Jul 17 13:03:50 2024 from 103.182.159.5
ubuntu@ip-172-31-36-101:~$
```

A red box highlights a tooltip for the instance ID "i-02639daa56b157d8f (Nginx)". The tooltip contains the instance ID and its public IP address, "PublicIPs: 13.201.115.240".

At the bottom of the browser window, there is a navigation bar with links like CloudShell, Feedback, and a search bar. On the right side, there are system status icons and a timestamp "17-07-2024 18:39".

Instances | EC2 | ap-south-1 X EC2 Instance Connect | ap-south-1 X +

← → C H ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-02639daa56b157d8f&osUser=ubuntu®ion=ap-south-1&sshPort=22#/ Star Copy Share ...

aws Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117 ▾

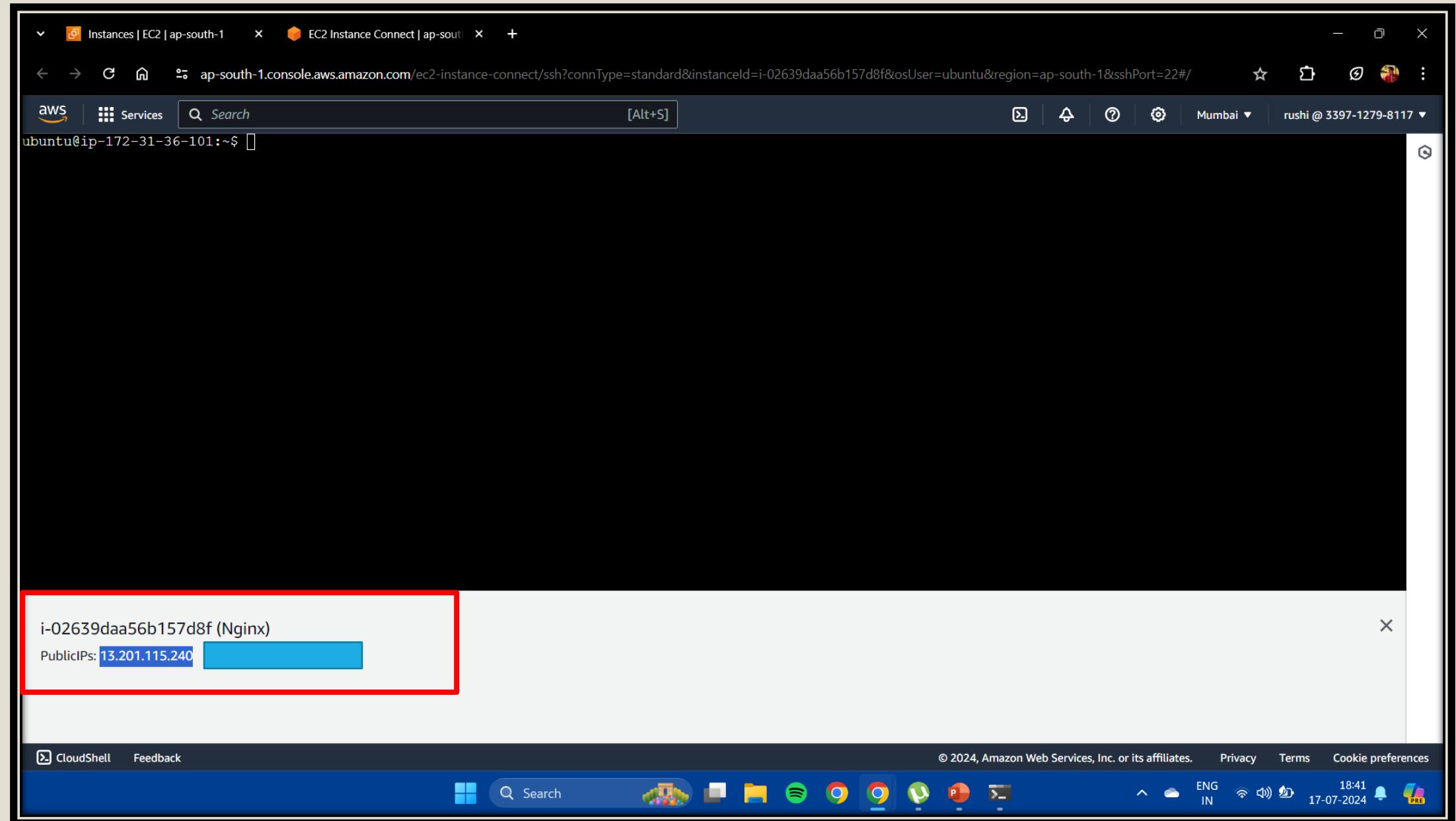
```
ubuntu@ip-172-31-36-101:~$ service nginx status
● nginx.service - A high performance web server and a reverse proxy server
  Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
  Active: active (running) since Wed 2024-07-17 12:50:35 UTC; 20min ago
    Docs: man:nginx(8)
   Process: 1388 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 1390 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
    Main PID: 1391 (nginx)
      Tasks: 2 (limit: 1130)
     Memory: 1.7M (peak: 1.9M)
        CPU: 12ms
       CGroup: /system.slice/nginx.service
           └─1391 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             ├─1392 "nginx: worker process"

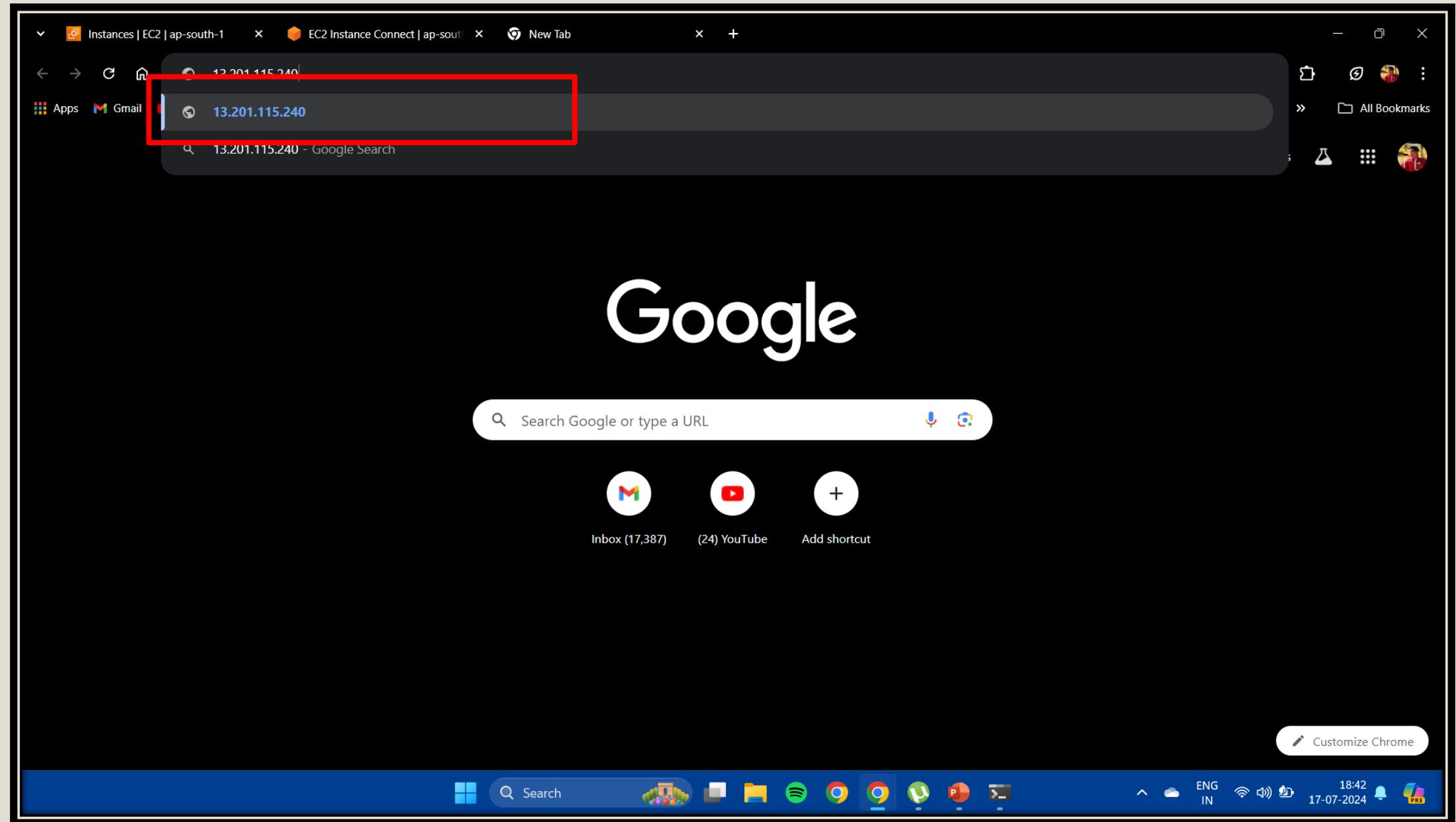
Jul 17 12:50:35 ip-172-31-36-101 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Jul 17 12:50:35 ip-172-31-36-101 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
ubuntu@ip-172-31-36-101:~$
```

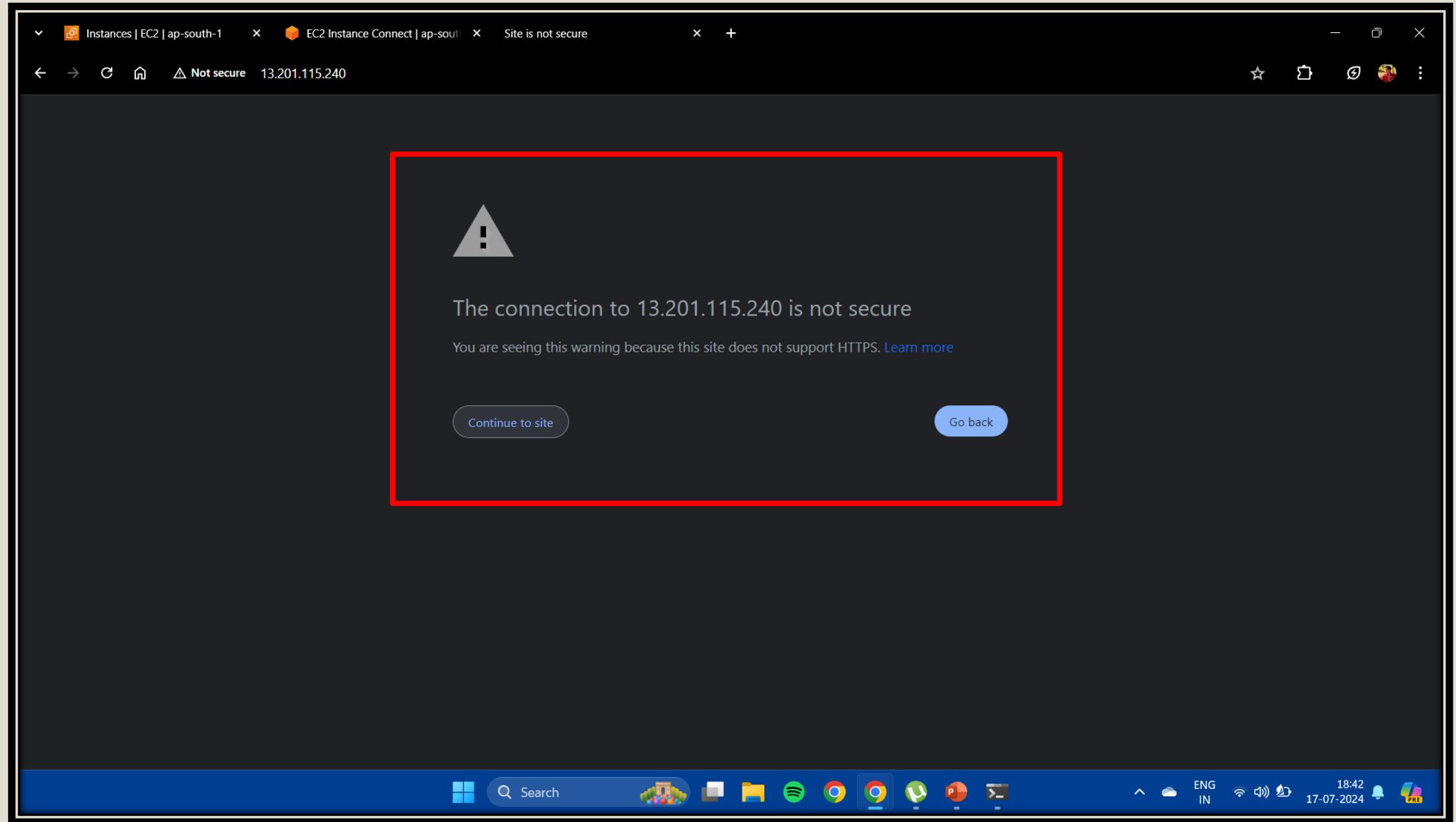
i-02639daa56b157d8f (Nginx)

PublicIPs: 13.201.115.240

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Instances | EC2 | ap-south-1 X EC2 Instance Connect | ap-south-1 X 13.201.115.240 X

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

aws Services Search [Alt+S]

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

All states ▾

C Connect Instance state Actions Launch instances

< 1 > ▾

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

Docker i-03ac43aadcb8ff4cc Stopped t2.micro - View alarms + ap-south-1b - -

Nginx i-02639daa56b157d8f Running 2/2 checks p View alarms + ap-south-1a ec2-13-20... 13.2

i-02639daa56b157d8f (Nginx)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	Public IPv4 address
i-02639daa56b157d8f (Nginx)	13.201.115.240 open address ↗

IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-13-201-115-240.ap-south-1.compute.amazonaws.com open address ↗

Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-36-101.ap-south-1.compute.internal	ip-172-31-36-101.ap-south-1.compute.internal	

Answer private resource DNS name	Instance type
IP-1 (A)	t2.micro

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CloudShell Feedback

Search

18:43 17-07-2024 ENG IN

30

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various navigation links like EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, etc. The Instances section is expanded, showing a list of instances. Two instances are listed: 'Docker' (Stopped) and 'Nginx' (Running). The 'Nginx' instance is selected, and its details are shown in the main pane. The 'Docker' instance is highlighted with a red box. The main pane displays the instance ID, public and private IP addresses, instance state, and other metadata. At the bottom, there are links for CloudShell, Feedback, and various system status icons.

The screenshot shows the AWS EC2 Instances page. On the left, a sidebar lists various services: EC2 Dashboard, EC2 Global View, Events, Instances (selected), 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 "Instances (1/2)" with a search bar and filters for "All states". Two instances are listed:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability zone	Public IP	Public DNS
Docker	i-03ac43aadcb8ff4cc	Stopped	t2.micro	-	View alarms	ap-south-1b	-	-
Nginx	i-02639daa56b157d8f	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a	ec2-13-20...	13.2...

For the selected instance "Nginx", a detailed view is shown with tabs for Details, Status and alarms, Monitoring, Security (highlighted with a red box), Networking, Storage, and Tags. The Security tab displays "Security details" (IAM Role: -, Owner ID: 339712798117, Launch time: Wed Jul 17 2024 18:09:00 GMT+0530 (India Standard Time)) and "Inbound rules" (with a filter bar).

At the bottom, there are CloudShell, Feedback, and footer links for Privacy, Terms, and Cookie preferences. The system status bar shows ENG IN, 18:44, 17-07-2024, and PRE.

The screenshot shows the AWS EC2 Security Group details page for a group named "sg-0b0af66ad75e932e4 - launch-wizard-4". The left sidebar lists various AWS services like EC2 Dashboard, EC2 Global View, Events, Instances, Images, Elastic Block Store, and Network & Security. The main content area displays the security group's details, including its name, ID, description, owner, and VPC ID. Below this, tabs for "Inbound rules", "Outbound rules", and "Tags" are shown, with "Inbound rules" being active and highlighted with a red box. The "Inbound rules" section shows one rule: a TCP port 22 rule for SSH access from the IPv4 address "sgr-0427e98af7e3aefd0".

Security group name: launch-wizard-4

Security group ID: sg-0b0af66ad75e932e4

Description: launch-wizard-4 created 2024-07-17T12:32:33.616Z

VPC ID: vpc-02f862f60eb668efd

Owner: 339712798117

Inbound rules count: 1 Permission entry

Outbound rules count: 1 Permission entry

Inbound rules (1)

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-0427e98af7e3aefd0	IPv4	SSH	TCP	22

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ModifyInboundSecurityGroupRules X EC2 Instance Connect | ap-south-1 X 13.201.115.240 X +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0b0af66ad75e932e4

aws Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

EC2 > Security Groups > sg-0b0af66ad75e932e4 - launch-wizard-4 > Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range	Source <small>Info</small>	Description - optional <small>Info</small>
sgr-0427e98af7e3aef0	SSH	TCP	22	Custom	0.0.0.0/0 <small>X</small>

Add rule

⚠ 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. X

Cancel Preview changes Save rules

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Search Spotify Google Chrome Microsoft Edge 18:45 ENG IN 17-07-2024 PRE

The screenshot shows the AWS EC2 Inbound Rules editor. It displays a single rule: sgr-0427e98af7e3aef0, Type: SSH, Protocol: TCP, Port range: 22, Source: Custom, and Source value: 0.0.0.0/0. A red box highlights the 'Add rule' button. A warning message at the bottom states: '⚠ 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.' Below the editor are standard AWS navigation links and a system tray with date and time information.

ModifyInboundSecurityGroupRules X EC2 Instance Connect | ap-south-1 X 13.201.115.240 X +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0b0af66ad75e932e4

aws Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

EC2 > Security Groups > sg-0b0af66ad75e932e4 - launch-wizard-4 > Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range	Source <small>Info</small>	Description - optional <small>Info</small>
sgr-0427e98af7e3aef0	SSH	TCP	22	Custom	<input type="text" value="0.0.0.0"/> <input type="button" value="X"/>
-	HTTP	TCP	80	Anywh...	<input type="text" value="http-nginx-demo"/> <input type="button" value="Delete"/>

⚠ 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.

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Search ENG IN 18:47 17-07-2024 PRE

ModifyInboundSecurityGroupRules EC2 Instance Connect | ap-sout 13.201.115.240

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0b0af66ad75e932e4

Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

EC2 > Security Groups > sg-0b0af66ad75e932e4 - launch-wizard-4 > Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range	Source <small>Info</small>	Description - optional <small>Info</small>
sgr-0427e98af7e3aef0	SSH	TCP	22	Custom	0.0.0.0/0 <small>X</small>
-	HTTP	TCP	80	Anywhere	0.0.0.0/0 <small>X</small> http-nginx-demo

Add rule

⚠ 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.

Cancel Preview changes Save rules

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Search

18:47 17-07-2024 ENG IN

Launch and Manage EC2 Instances

Screenshot of the AWS EC2 Security Group Details page.

The URL in the browser is `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#SecurityGroup:group-id=sg-0b0af66ad75e932e4`.

Details:

Security group name	Security group ID	Description	VPC ID
launch-wizard-4	sg-0b0af66ad75e932e4	launch-wizard-4 created 2024-07-17T12:32:33.616Z	vpc-02f862f60eb668efd
Owner	Inbound rules count	Outbound rules count	
339712798117	2 Permission entries	1 Permission entry	

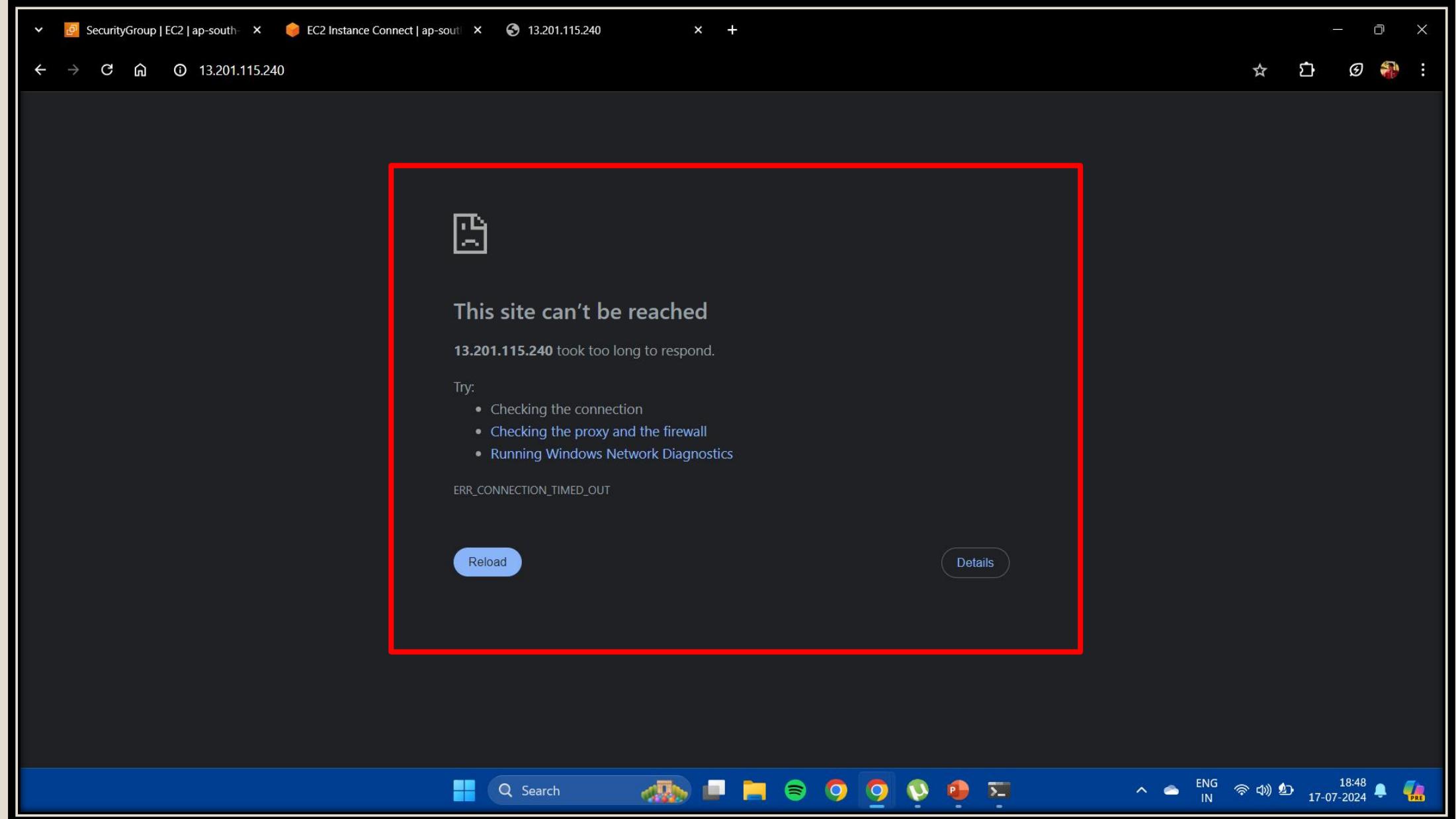
Inbound rules (1/2):

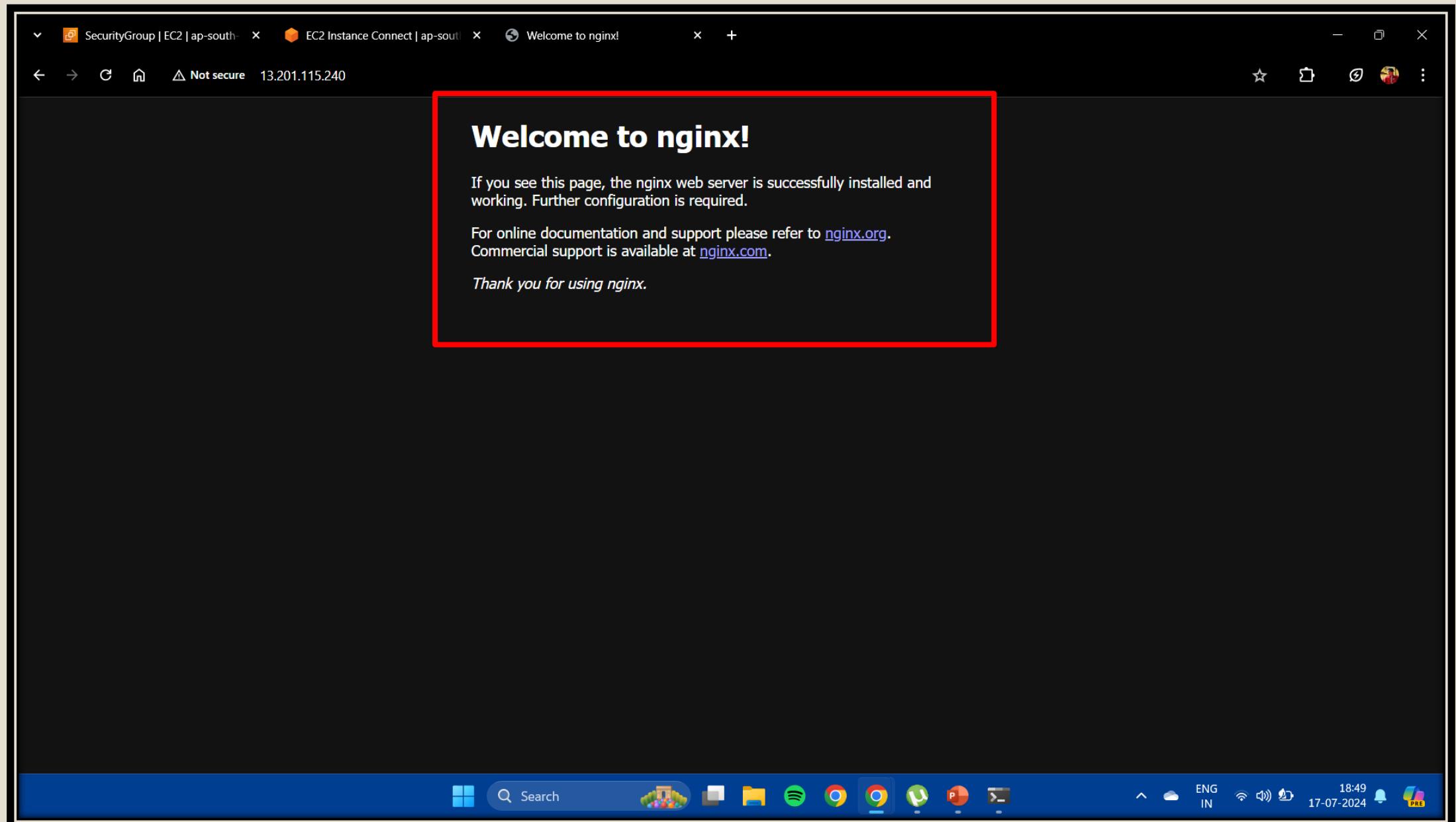
Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-0427e98af7e3aef0	IPv4	SSH	TCP	22
<input checked="" type="checkbox"/>	-	sgr-021438fa10fe6c114	HTTP	TCP	80

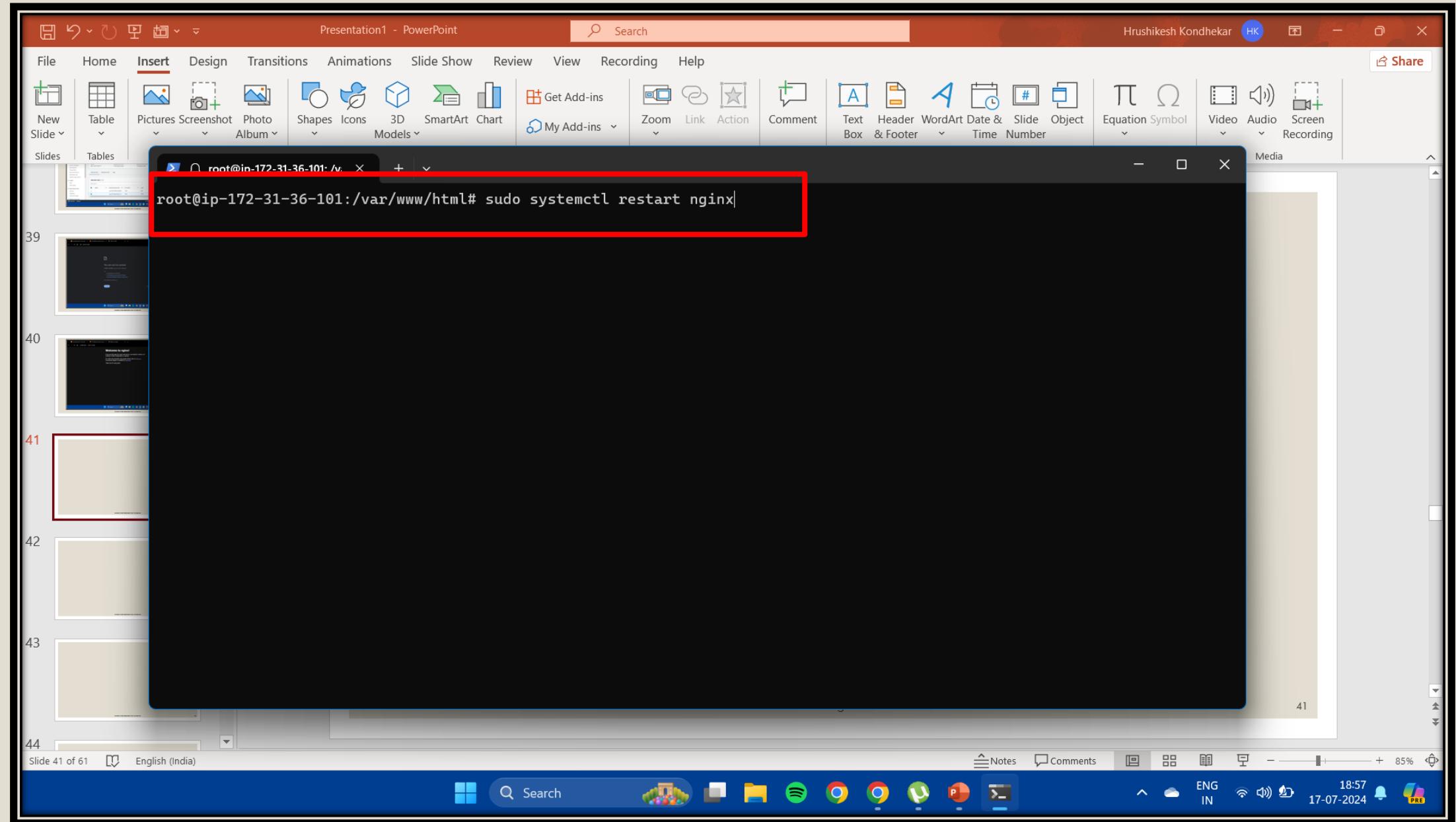
Bottom Navigation and Footer:

- CloudShell
- Feedback
- © 2024, Amazon Web Services, Inc. or its affiliates.
- Privacy
- Terms
- Cookie preferences

System tray icons: ENG IN, 18:48, 17-07-2024, PRB.







Presentation1 - PowerPoint

File Home Insert Design Transitions Animations Slide Show Review View Recording Help

Clipboard

root@ip-172-31-36-101:/var/www/html# sudo systemctl restart nginx
root@ip-172-31-36-101:/var/www/html# service nginx status
● nginx.service - A high performance web server and a reverse proxy server
 Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
 Active: active (running) since Wed 2024-07-17 13:28:03 UTC; 13s ago
 Docs: man:nginx(8)
 Process: 2433 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Process: 2437 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Main PID: 2438 (nginx)
 Tasks: 2 (limit: 1130)
 Memory: 1.7M (peak: 1.9M)
 CPU: 10ms
 CGroup: /system.slice/nginx.service
 └─2438 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
 ├─2439 "nginx: worker process"

Jul 17 13:28:03 ip-172-31-36-101 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy
Jul 17 13:28:03 ip-172-31-36-101 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy

42

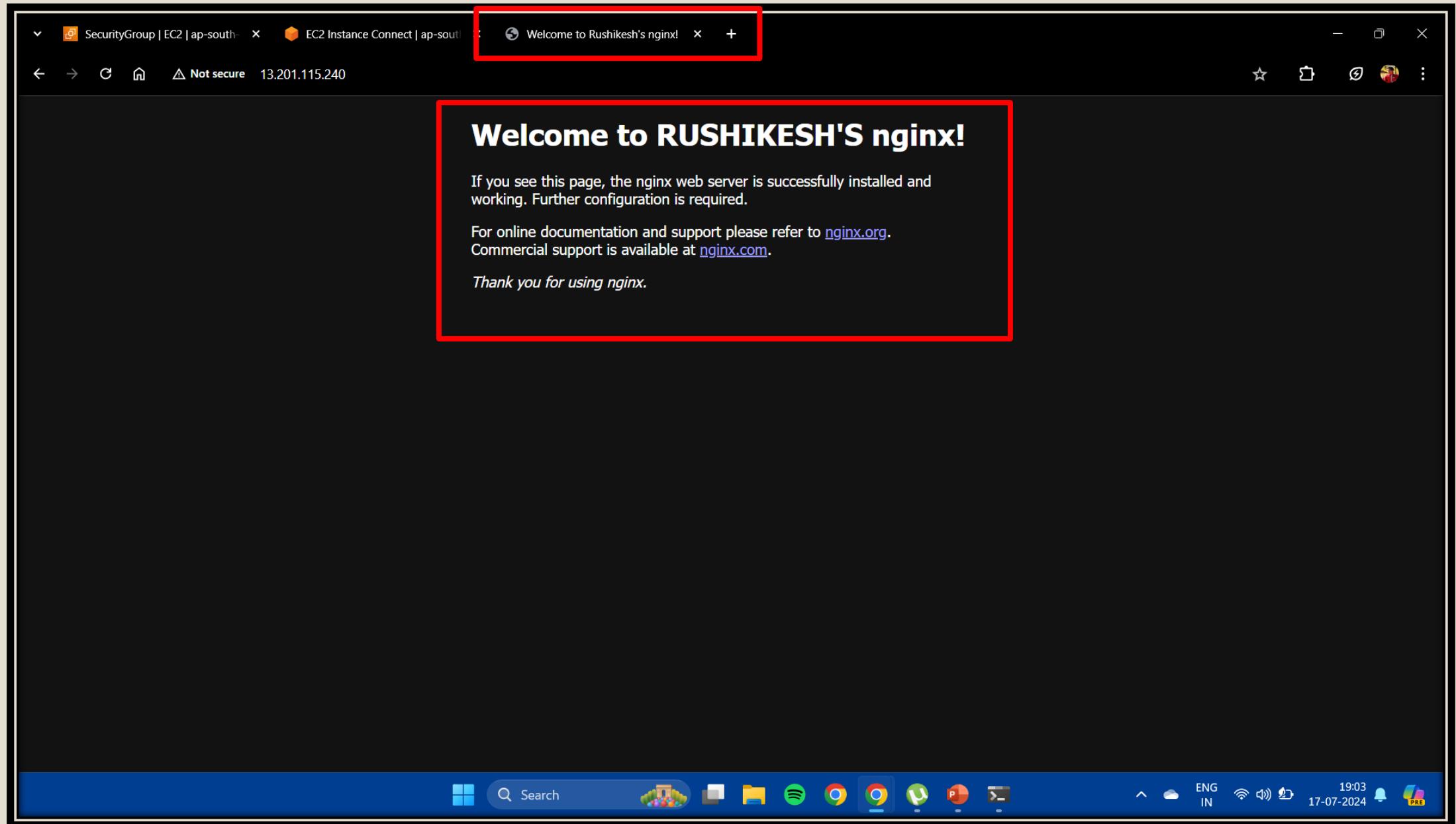
43

44

Slide 42 of 61 English (India)

Notes Comments

18:58 17-07-2024 ENG IN PRE



Instances | EC2 | ap-south-1 X EC2 Instance Connect | ap-south-1 X Welcome to Rushikesh's nginx! X +

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

aws Services Search [Alt+S]

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

All states ▾

Instances (1/2) ▾

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability zone	Public IP address	Published ports
Docker	i-03ac43aadcb8ff4cc	Stopped	t2.micro	-	View alarms +	ap-south-1b	-	-
Nginx	i-02639daa56b157d8f	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a	ec2-13-20...	13.2

i-02639daa56b157d8f (Nginx)

Details Status and alarms Monitoring Security Networking Storage Tags

Security details

IAM Role - Owner ID 339712798117 Launch time Wed Jul 17 2024 18:09:00 GMT+0530 (India Standard Time)

Security groups sg-0b0af66ad75e932e4 (launch-wizard-4)

Inbound rules

Filter rules

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The screenshot shows the AWS EC2 Instances page. There are two instances listed: 'Docker' (Stopped) and 'Nginx' (Running). The 'Nginx' instance is highlighted with a red box. In the details pane on the right, the instance ID is i-02639daa56b157d8f, it has an IAM Role assigned, and it was launched on Wed Jul 17 2024 18:09:00 GMT+0530 (India Standard Time). It is associated with a security group sg-0b0af66ad75e932e4 (launch-wizard-4). The 'Security' tab is selected in the details pane.

Instances | EC2 | ap-south-1 EC2 Instance Connect | ap-south-1 Welcome to Rushikesh's nginx! +

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

AWS Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

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
Docker	i-03ac43aadcb8ff4cc	Stopped	t2.micro	-	View alarms
Nginx	i-02639daa56b157d8f	Running	t2.micro	2/2 checks p	View alarms

i-02639daa56b157d8f (Nginx)

Details Status and alarms Monitoring Security Networking Storage Tags

Security

IAM Role - Owner ID 339712798117 Launch time Wed Jul 17 2024 18:09:00 GMT+0530 (India Standard Time)

Security groups sg-0b0af66ad75e932e4 (launch-wizard-4)

Inbound rules Filter rules

Actions

Connect Instance state ▾ Actions ▾ Launch instances ▾

Connect View details Manage instance state Instance settings Networking Security Image and templates Monitor and troubleshoot

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Search

19:05 17-07-2024 ENG IN PRE

Launch and Manage EC2 Instances

Instances | EC2 | ap-south-1 EC2 Instance Connect | ap-south-1 Welcome to Rushikesh's nginx! +

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

AWS Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

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
Docker	i-03ac43aadcb8ff4cc	Stopped	t2.micro	-	View alarms
Nginx	i-02639daa56b157d8f	Running	t2.micro	2/2 checks p	View alarms

i-02639daa56b157d8f (Nginx)

Actions ▾ **Launch instances** ▾

- Connect
- View details
- Manage instance state
- Instance settings
- Networking
- Security
- Create image** (highlighted with a red box)
- Image and templates
- Monitor and troubleshoot

Create template from instance
Launch more like this

Security Details Status and alarms Monitoring Networking Storage Tags

Security details

IAM Role - Owner ID 339712798117 Launch time Wed Jul 17 2024 18:09:00 GMT+0530 (India Standard Time)

Security groups sg-0b0af66ad75e932e4 (launch-wizard-4)

Inbound rules

Filter rules

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Search

19:06 17-07-2024 ENG IN

45

Create Image | EC2 | ap-south-1 X EC2 Instance Connect | ap-south-1 X Welcome to Rushikesh's nginx! X +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#CreateImage:instanceId=i-02639daa56b157d8f

Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

EC2 > Instances > i-02639daa56b157d8f > Create image

Create image Info

An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.

Instance ID
i-02639daa56b157d8f (Nginx)

Image name
demo-nginx
Maximum 127 characters. Can't be modified after creation.

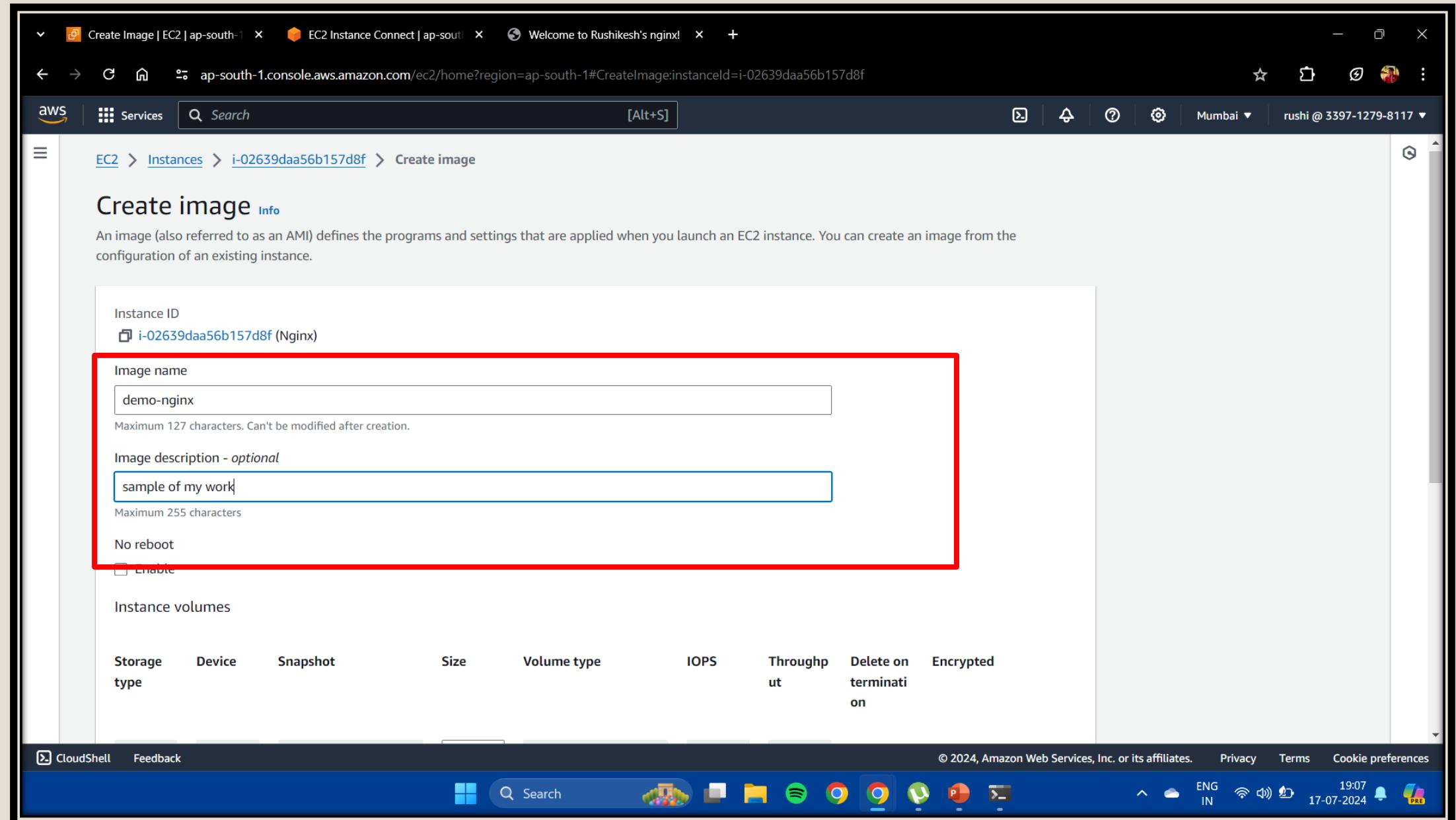
Image description - optional
sample of my work
Maximum 255 characters

No reboot
 Enable

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
--------------	--------	----------	------	-------------	------	------------	-----------------------	-----------

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Instances | EC2 | ap-south-1 X EC2 Instance Connect | ap-south-1 X Welcome to Rushikesh's nginx! X +

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

Services Search [Alt+S] Mumbai rushi @ 3397-1279-8117

EC2 Dashboard X

EC2 Global View

Events

Instances (2) Info

Find Instance by attribute or tag (case-sensitive)

All states ▾

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availabi...	Public I...	Publ
Docker	i-03ac43aadcb8ff4cc	Stopped	t2.micro	-	View alarms +	ap-south-1b	-	-
Nginx	i-02639daa56b157d8f	Running	t2.micro	2/2 checks p:	View alarms +	ap-south-1a	ec2-13-20...	13.2

Select an instance

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CloudShell Feedback ENG IN 19:08 17-07-2024 PRE

Currently creating AMI ami-05d806b11affbb817 from instance i-02639daa56b157d8f. Check that the AMI status is 'Available' before deleting the instance or carrying out other actions related to this AMI.

The screenshot shows the AWS EC2 Instances page. A green notification bar at the top right indicates that an AMI is currently being created from instance i-02639daa56b157d8f, with a message to verify its availability before performing further actions. The main table lists two instances: 'Docker' (Stopped, t2.micro) and 'Nginx' (Running, t2.micro). The 'Actions' column for the Nginx instance shows links for 'View alarms' and 'Launch instances'. A modal window titled 'Select an instance' is open, listing the same two instances. The left sidebar contains navigation links for EC2 Dashboard, Global View, Events, Instances (with sub-links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images (AMIs, Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security. The bottom navigation bar includes CloudShell, Feedback, privacy terms, cookie preferences, and system status indicators for language (ENG IN), battery level (19:08), date (17-07-2024), and notifications.

Launch an instance | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | Welcome to Rushikesh's nginx! | +

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

aws Services Search [Alt+S]

Mumbai rushi @ 3397-1279-8117

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 My AMIs Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Li

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI
ami-0ec0e125bb6c6e8ec (64-bit (x86), uefi-preferred) / ami-09b459d1498a0c8e2 (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

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

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.5.2...read more
ami-0ec0e125bb6c6e8ec

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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

i 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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ENG IN 19:08 17-07-2024 PRE

Launch an instance | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | Welcome to Rushikesh's nginx! | +

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

Services Search [Alt+S]

Quickstart AMIs (47) My AMIs (1) AWS Marketplace AMIs (10394) Community AMIs (500)

Commonly used AMIs Created by me AWS & trusted third-party AMIs Published by anyone

Refine results All products (47 filtered, 47 unfiltered) < 1 >

Free tier only [Info](#)

OS category

All Linux/Unix

All Windows

Architecture

64-bit (Arm)

32-bit (x86)

64-bit (x86)

64-bit (Mac)

Amazon Linux 2023 AMI

ami-0ec0e125bb6c6e8ec (64-bit (x86), uefi-preferred) / ami-09b459d1498a0c8e2 (64-bit (Arm), uefi)

Select

Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. 64-bit (x86), uefi-preferred
 64-bit (Arm), uefi

Platform: amazon Root device type: ebs Virtualization: hvm ENA enabled: Yes

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type

ami-0d1e92463a5acf79d (64-bit (x86)) / ami-0df876d3483a936ba (64-bit (Arm))

Select

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

64-bit (x86)
 64-bit (Arm)

Platform: amazon Root device type: ebs Virtualization: hvm ENA enabled: Yes

macOS Sonoma

ami-03c6ab5b1e9a72ed9 (64-bit (Mac))

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Launch an instance | EC2 | ap-south-1 | EC2 Instance Connect | ap-south-1 | Welcome to Rushikesh's nginx! | +

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

aws Services Search [Alt+S]

EC2 > Instances > Launch an instance > AMIs

Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Selected AMI: (ami-0ec0e125bb6c6e8ec) (Quickstart AMIs)

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OS category

demo-nginx

ami-05d806b11affbb817

sample of my work

OwnerAlias: - Platform: Other Linux Architecture: x86_64 Owner: 339712798117 Publish date: 2024-07-17 Root device type: ebs ENA enabled: Yes

Virtualization: hvm

Select

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