Hands-on Assignments:

Assignment#1. Create a VM and install docker and test the images inside the container with the commands

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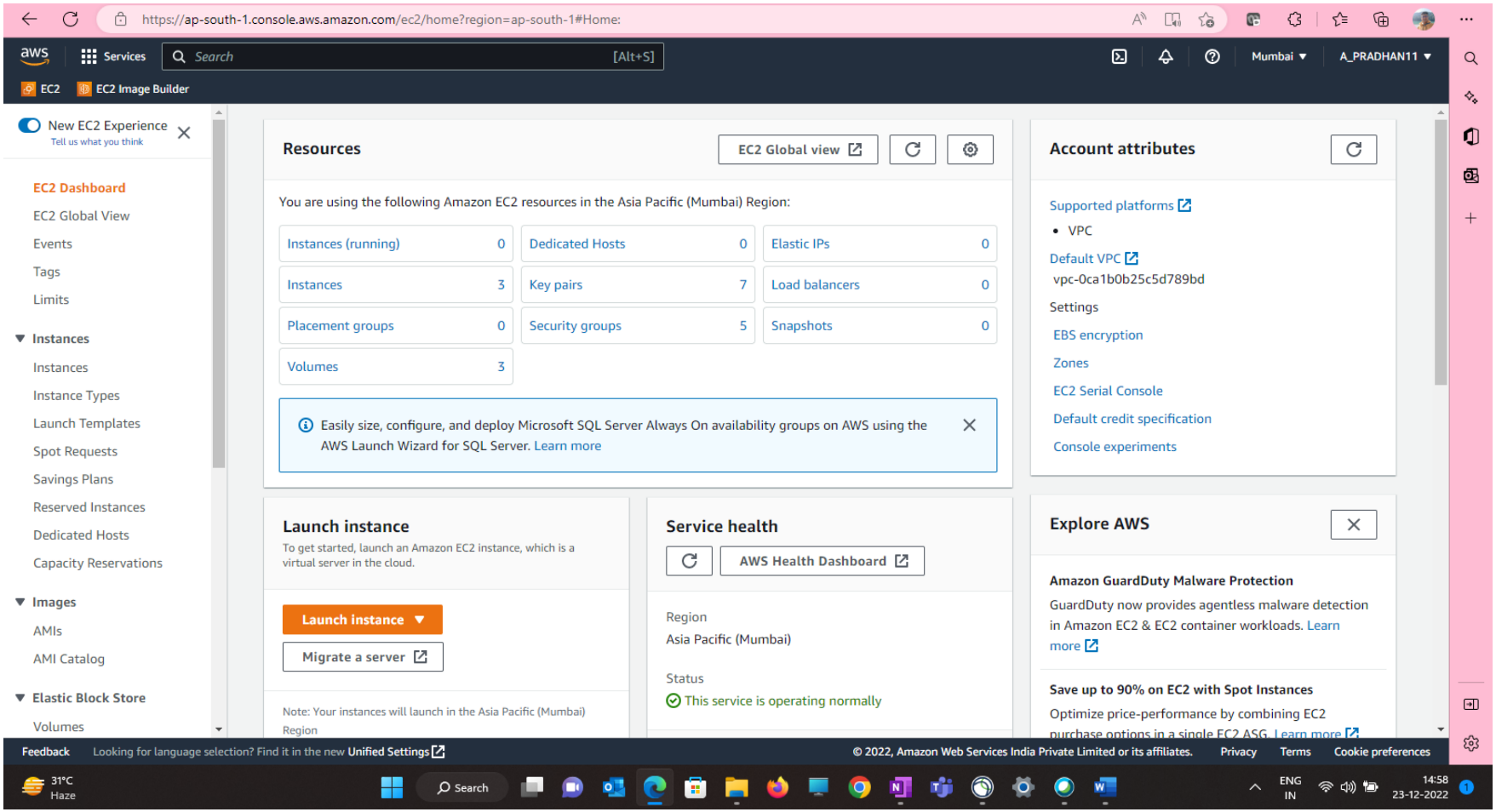
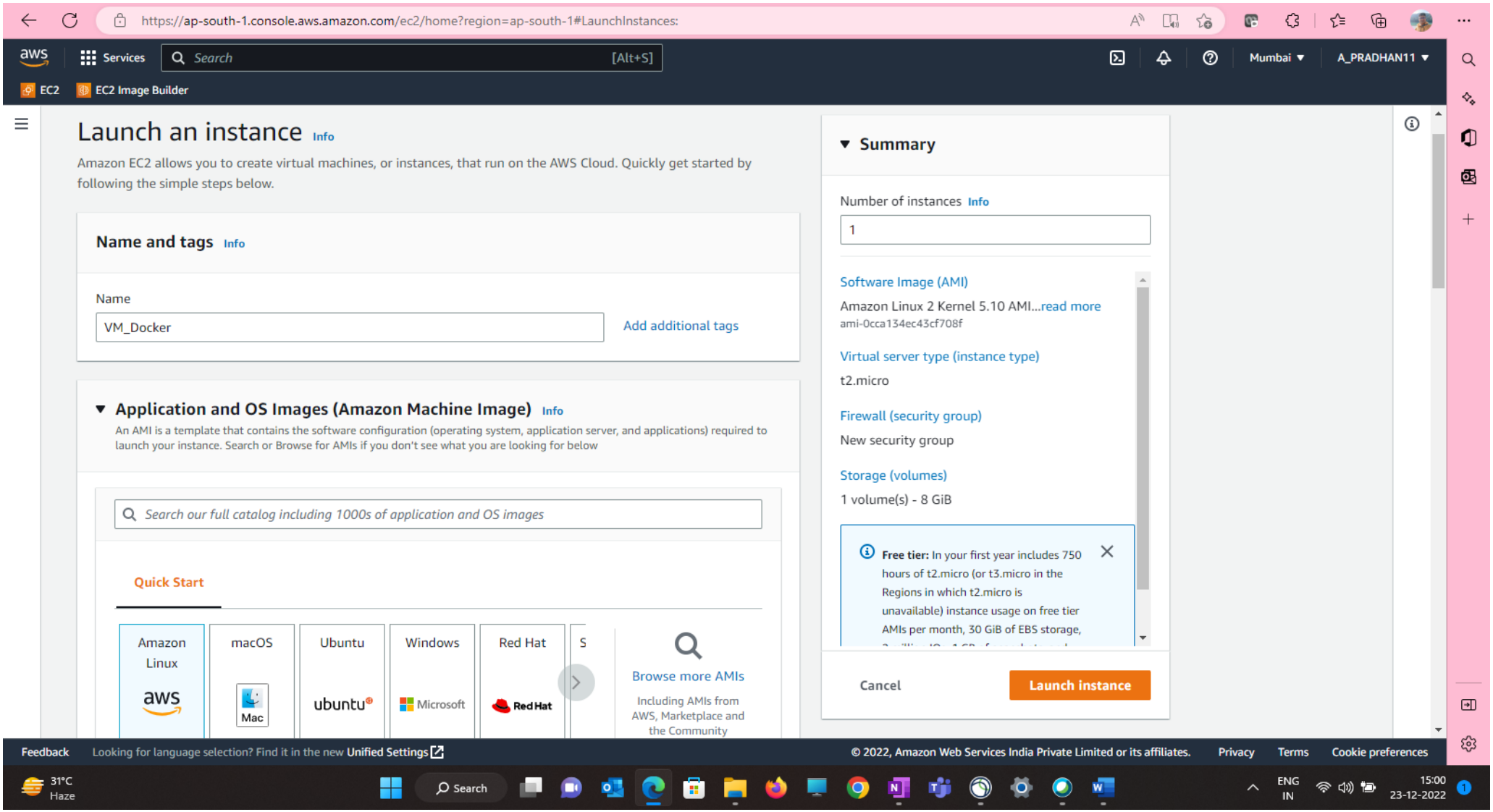
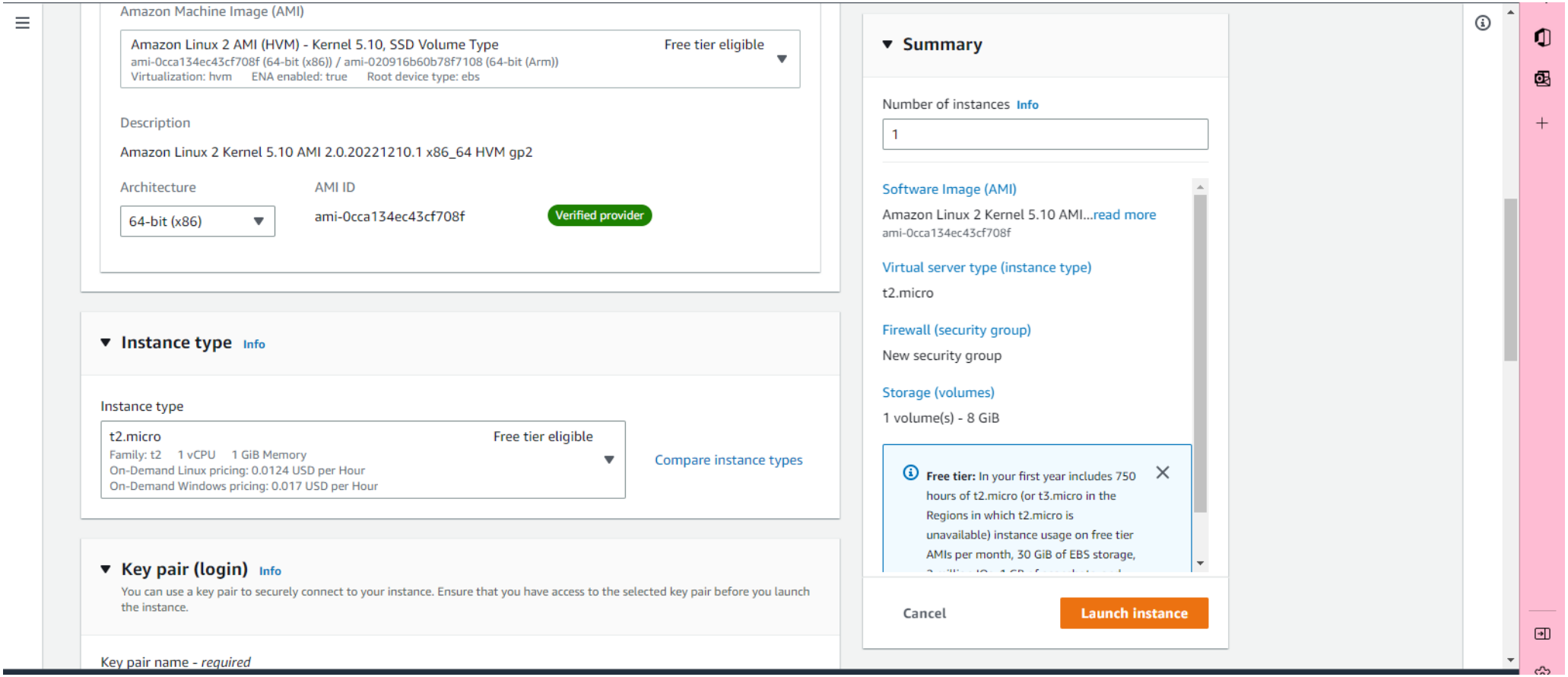
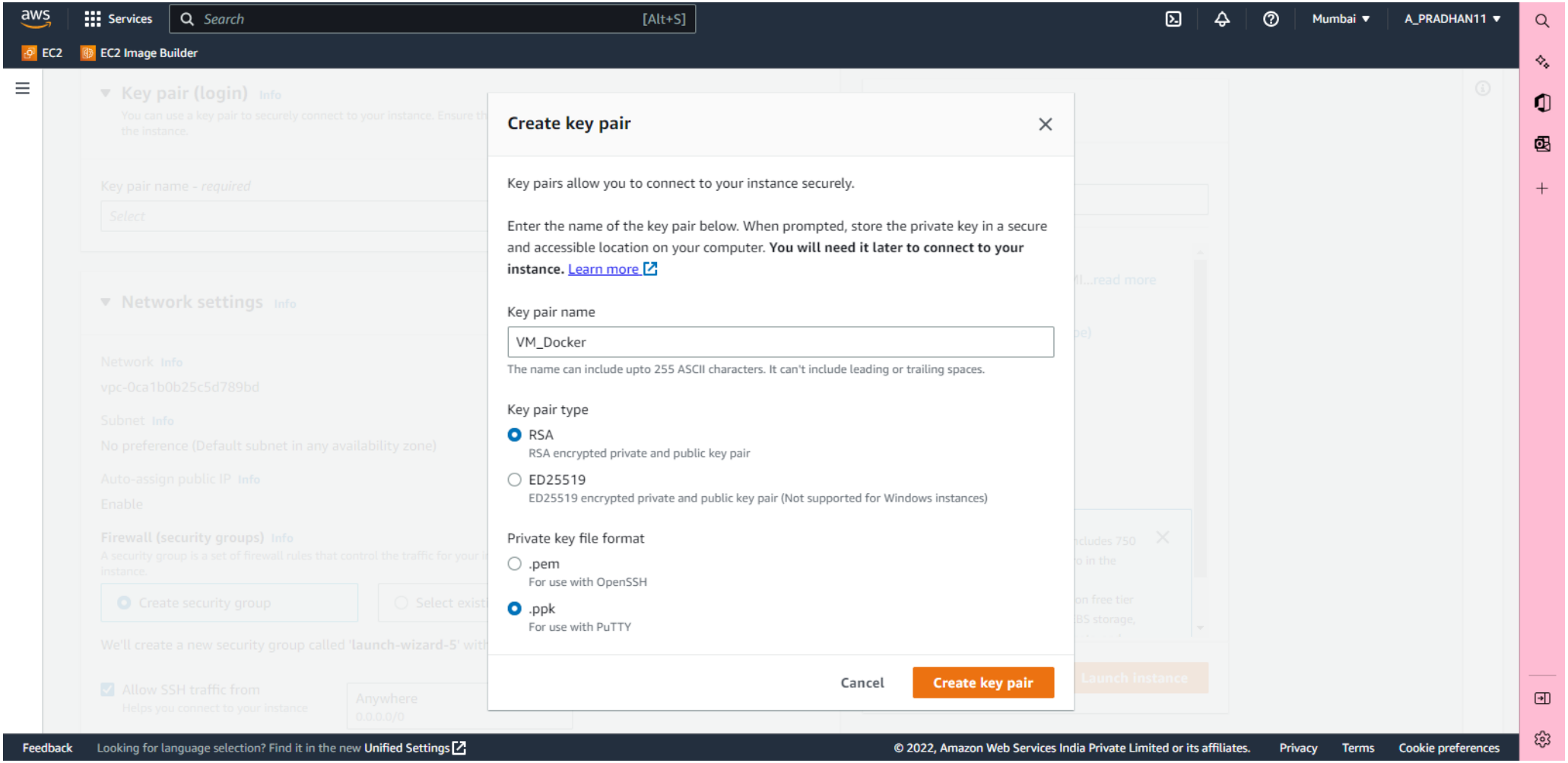


Launching an instance




Amazon Machine Image (AMI)
Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type
Free tier eligible
ami-0cca134ec43cf708f (64-bit (x86)) / ami-020916b60b78f7108 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs
Description
Amazon Linux 2 Kernel 5.10 AMI 2.0.20221210.1 x86_64 HVM gp2
Architecture
AMI ID
64-bit (x86)
ami-0cca134ec43cf708f
Verified provider
Instance type Info
Instance type
t2.micro
Free tier eligible
Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0124 USD per Hour
On-Demand Windows pricing: 0.017 USD per Hour
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
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0cca134ec43cf708f
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 usage on free tier AMIs per month, 30 GiB of EBS storage,
Cancel
Launch instance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EC2
EC2 Image Builder
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure th
the instance.
Key pair name - required
Select
Network settings Info
Network Info
vpc-0ca1b0b25c5d789bd
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.
Create security group
Select exist
We'll create a new security group called 'launch-wizard-5' with
Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0
Create key pair
Key pairs allow you to connect to your instance securely.
Enter the name of the key pair below. 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
Key pair name
VM_Docker
The name can include upto 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 (Not supported for Windows instances)
Private key file format
.pem
For use with OpenSSH
.ppk
For use with PuTTY
Cancel
Create key pair
Launch instance
Feedback
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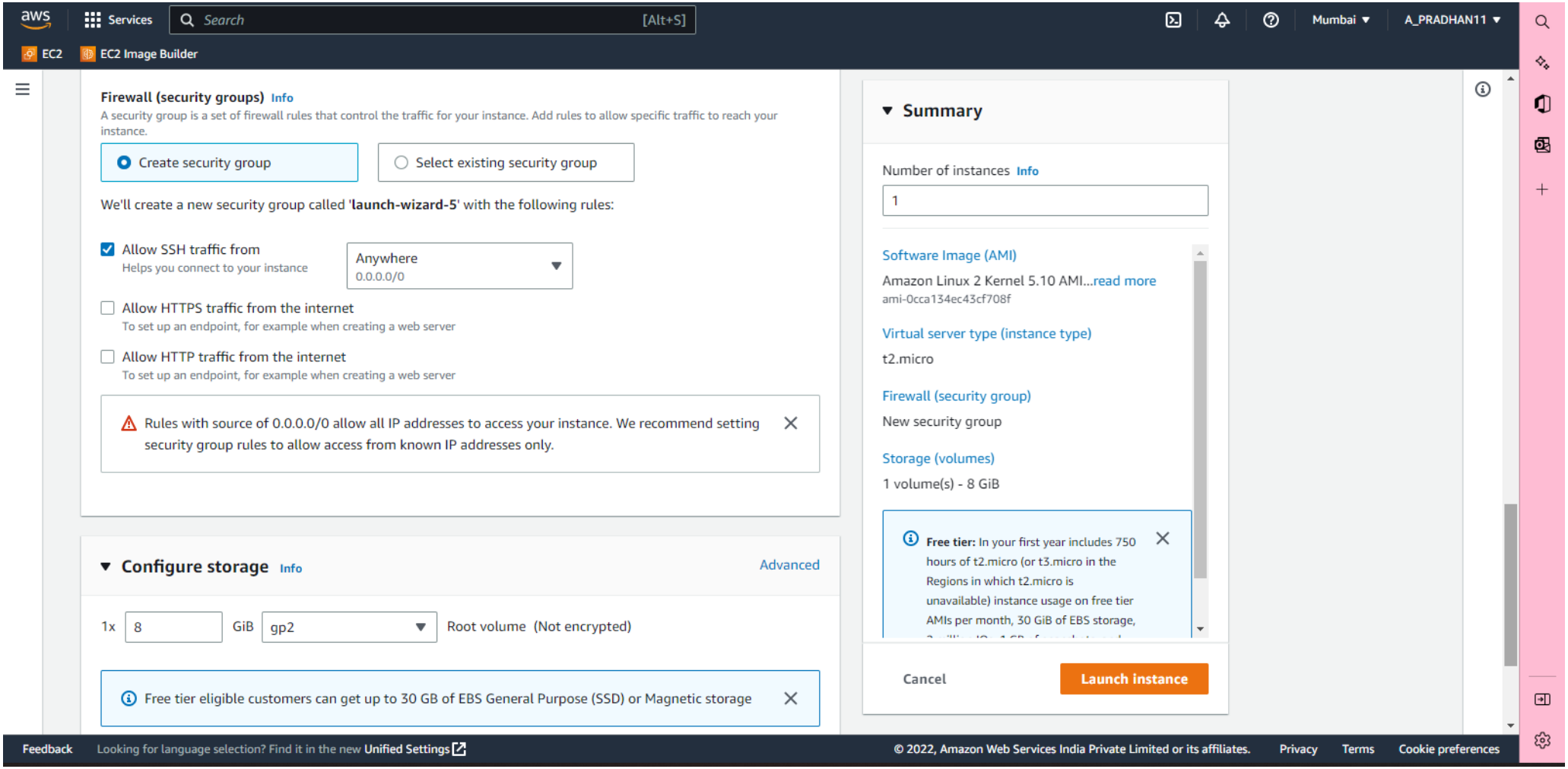
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EC2
EC2 Image Builder
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group
Select existing security group
We'll create a new security group called 'launch-wizard-5' 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
8
GiB
gp2
Root volume (Not encrypted)
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0cca134ec43cf708f
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 usage on free tier AMIs per month, 30 GiB of EBS storage,
Cancel
Launch instance
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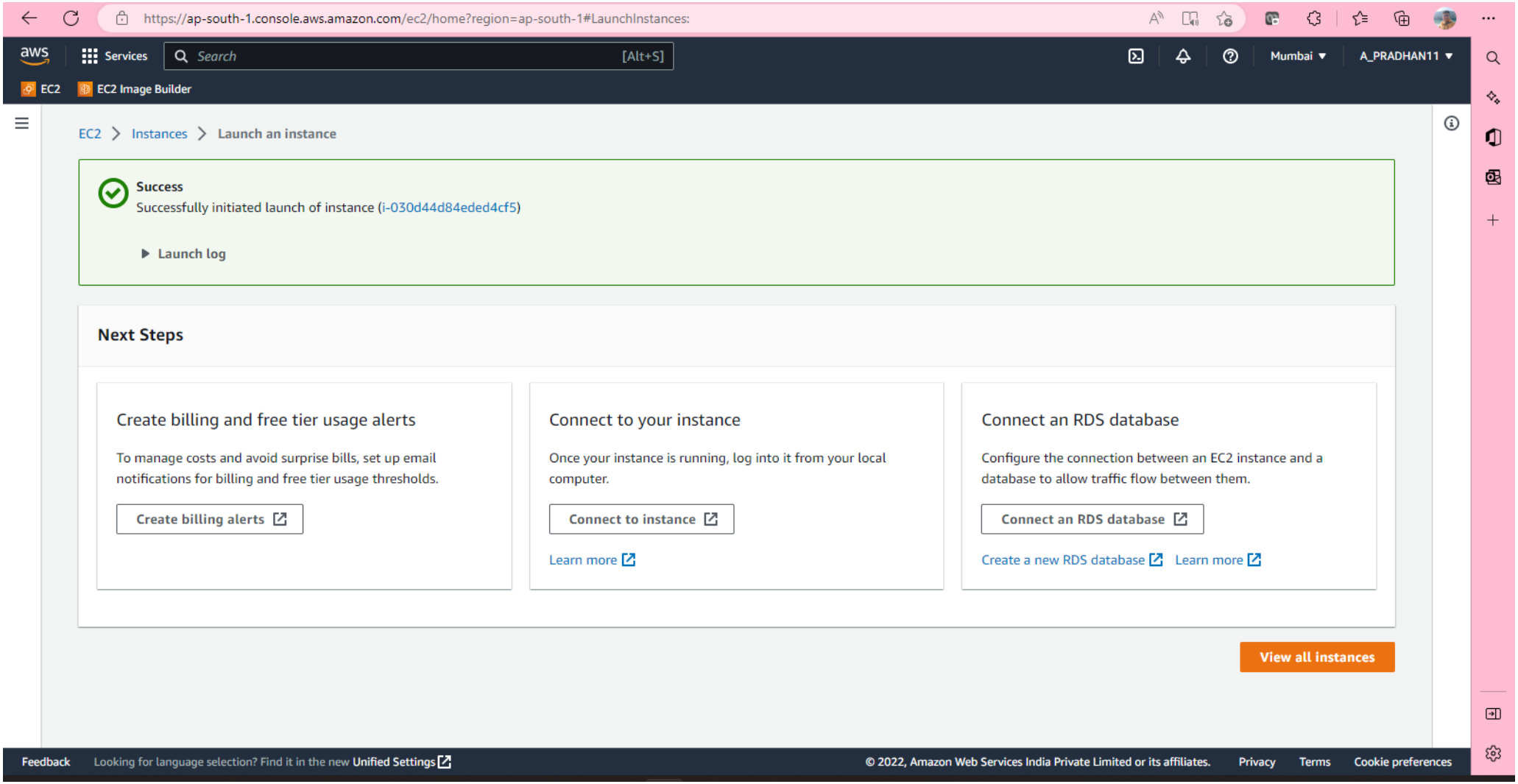
https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
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EC2
EC2 Image Builder
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-030d44d84eded4cf5)
Launch log
Next Steps
Create billing 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
View all instances
Feedback
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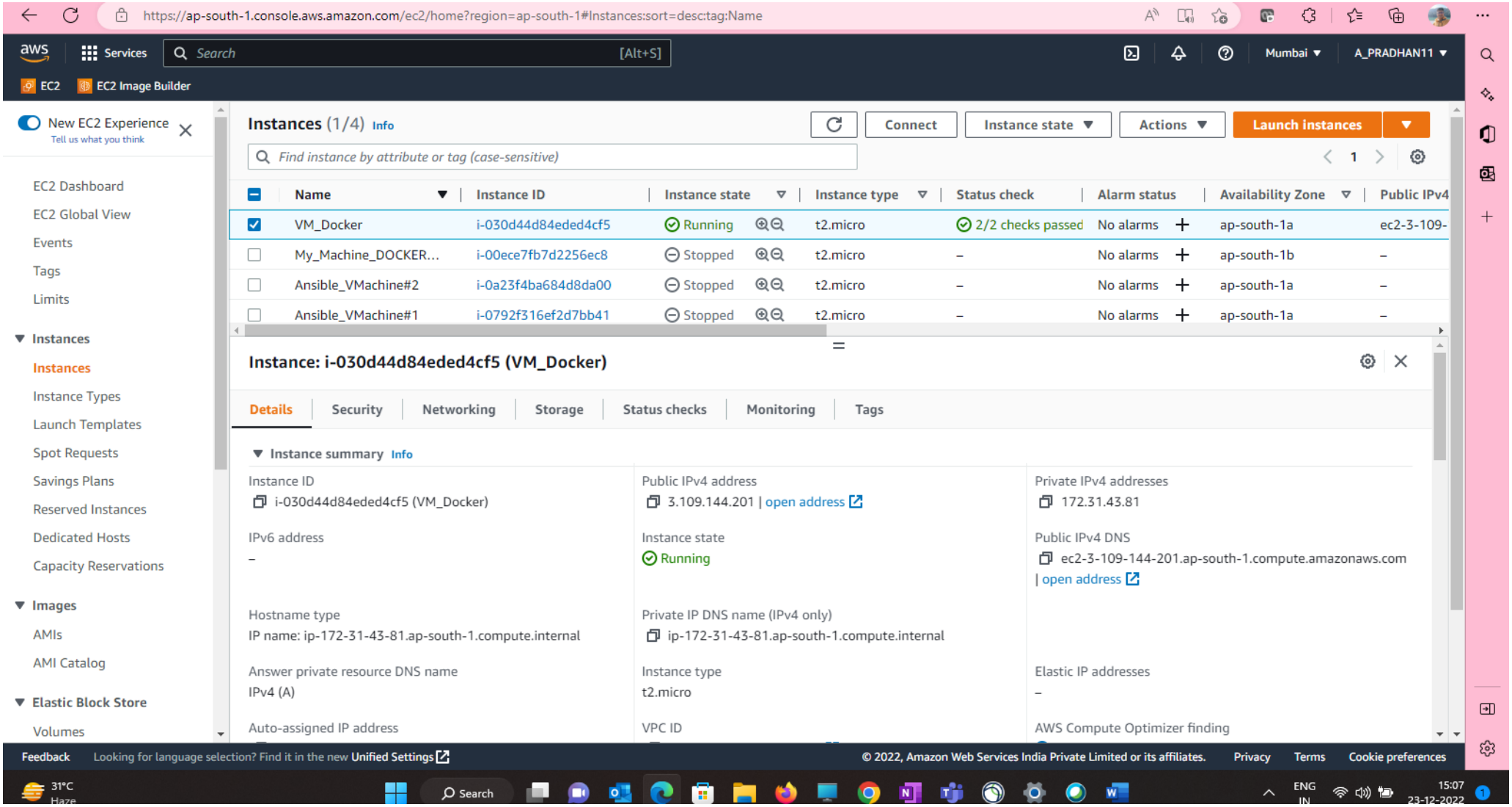
https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:sort=desc:tag:Name
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EC2 Image Builder
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1/4) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4
VM_Docker
i-030d44d84eded4cf5
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1a
ec2-3-109-
My_Machine_DOCKER...
i-00ece7fb7d2256ec8
Stopped
t2.micro
–
No alarms
ap-south-1b
–
Ansible_VMachine#2
i-0a23f4ba684d8da00
Stopped
t2.micro
–
No alarms
ap-south-1a
–
Ansible_VMachine#1
i-0792f316ef2d7bb41
Stopped
t2.micro
–
No alarms
ap-south-1a
–
Instance: i-030d44d84eded4cf5 (VM_Docker)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-030d44d84eded4cf5 (VM_Docker)
IPv6 address
–
Hostname type
IP name: ip-172-31-43-81.ap-south-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Auto-assigned IP address
Public IPv4 address
3.109.144.201 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-43-81.ap-south-1.compute.internal
Instance type
t2.micro
VPC ID
Private IPv4 addresses
172.31.43.81
Public IPv4 DNS
ec2-3-109-144-201.ap-south-1.compute.amazonaws.com | open address
Elastic IP addresses
–
AWS Compute Optimizer finding
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15:07
23-12-2022

Instance: i-030d44d84eded4cf5 (VM_Docker)

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

Instance summary Info

Instance ID i-030d44d84eded4cf5 (VM_Docker)	Public IPv4 address 3.109.144.201 | open address	Private IPv4 addresses 172.31.43.81
IPv6 address –	Instance state Running	Public IPv4 DNS ec2-3-109-144-201.ap-south-1.compute.amazonaws.com | open address
Hostname type IP name: ip-172-31-43-81.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-43-81.ap-south-1.compute.internal	
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	Elastic IP addresses –
Auto-assigned IP address 3.109.144.201 [Public IP]	VPC ID vpc-0ca1b0b25c5d789bd	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role –	Subnet ID subnet-0d71a1e578b73f38b	Auto Scaling Group name –

Instance details Info

Platform Amazon Linux (Inferred)	AMI ID ami-0cca134ec43cf708f	Monitoring disabled
Platform details Linux/UNIX	AMI name amzn2-ami-kernel-5.10-hvm-2.0.20221210.1-x86_64-gp2	Termination protection Disabled
Stop protection Disabled	Launch time Fri Dec 23 2022 15:02:44 GMT+0530 (India Standard Time) (5 minutes)	AMI location amazon/amzn2-ami-kernel-5.10-hvm-2.0.20221210.1-x86_64-gp2
Instance auto-recovery Default	Lifecycle normal	Stop-hibernate behavior disabled
AMI Launch index 0	Key pair name VM_Docker	State transition reason –
Credit specification standard	Kernel ID –	State transition message –
Usage operation RunInstances	RAM disk ID –	Owner 148380400104
Enclaves Support –	Boot mode –	Allow tags in instance metadata Disabled
Use RBN as guest OS hostname Disabled	Answer RBN DNS hostname IPv4 Enabled	

▼ **Host and placement group** Info

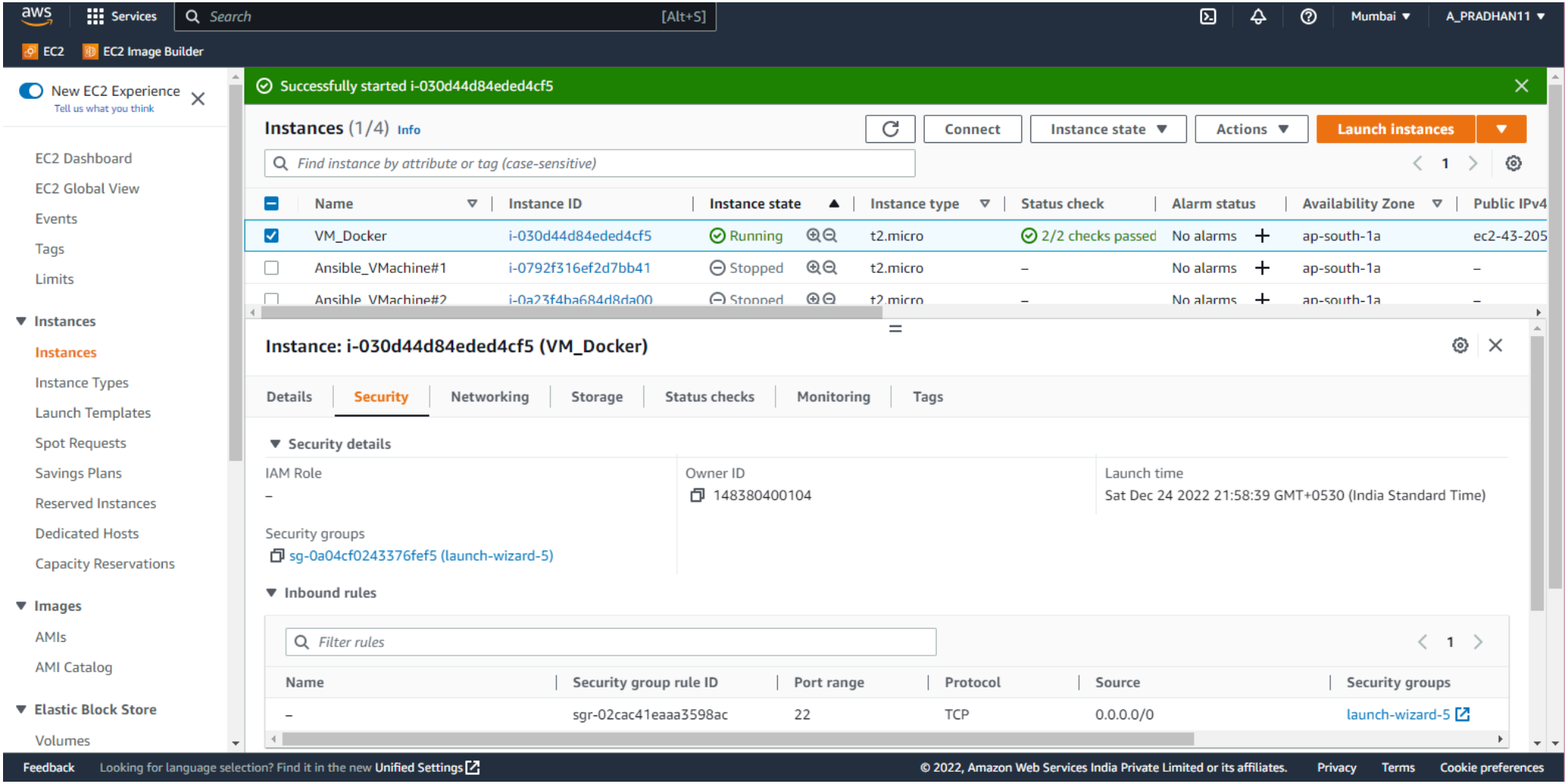
Host ID –	Affinity –	Placement group –

Virtualization type	Reservation	Partition number
hvm	r-0da49aada3ca89a93	–

Number of vCPUs
1

▼ **Capacity reservation** Info

Capacity Reservation ID	Capacity Reservation setting
–	open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EC2
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Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
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
Successfully started i-030d44d84eded4cf5
Instances (1/4) Info
Connect
Instance state
Actions
Launch instances
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Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4
VM_Docker
i-030d44d84eded4cf5
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1a
ec2-43-205
Ansible_VMachine#1
i-0792f316ef2d7bb41
Stopped
t2.micro
–
No alarms
ap-south-1a
–
Instance: i-030d44d84eded4cf5 (VM_Docker)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Security details
IAM Role
–
Owner ID
148380400104
Launch time
Sat Dec 24 2022 21:58:39 GMT+0530 (India Standard Time)
Security groups
sg-0a04cf0243376fef5 (launch-wizard-5)
Inbound rules
Filter rules
Name
Security group rule ID
Port range
Protocol
Source
Security groups
–
sgr-02cac41eaaa3598ac
22
TCP
0.0.0.0/0
launch-wizard-5
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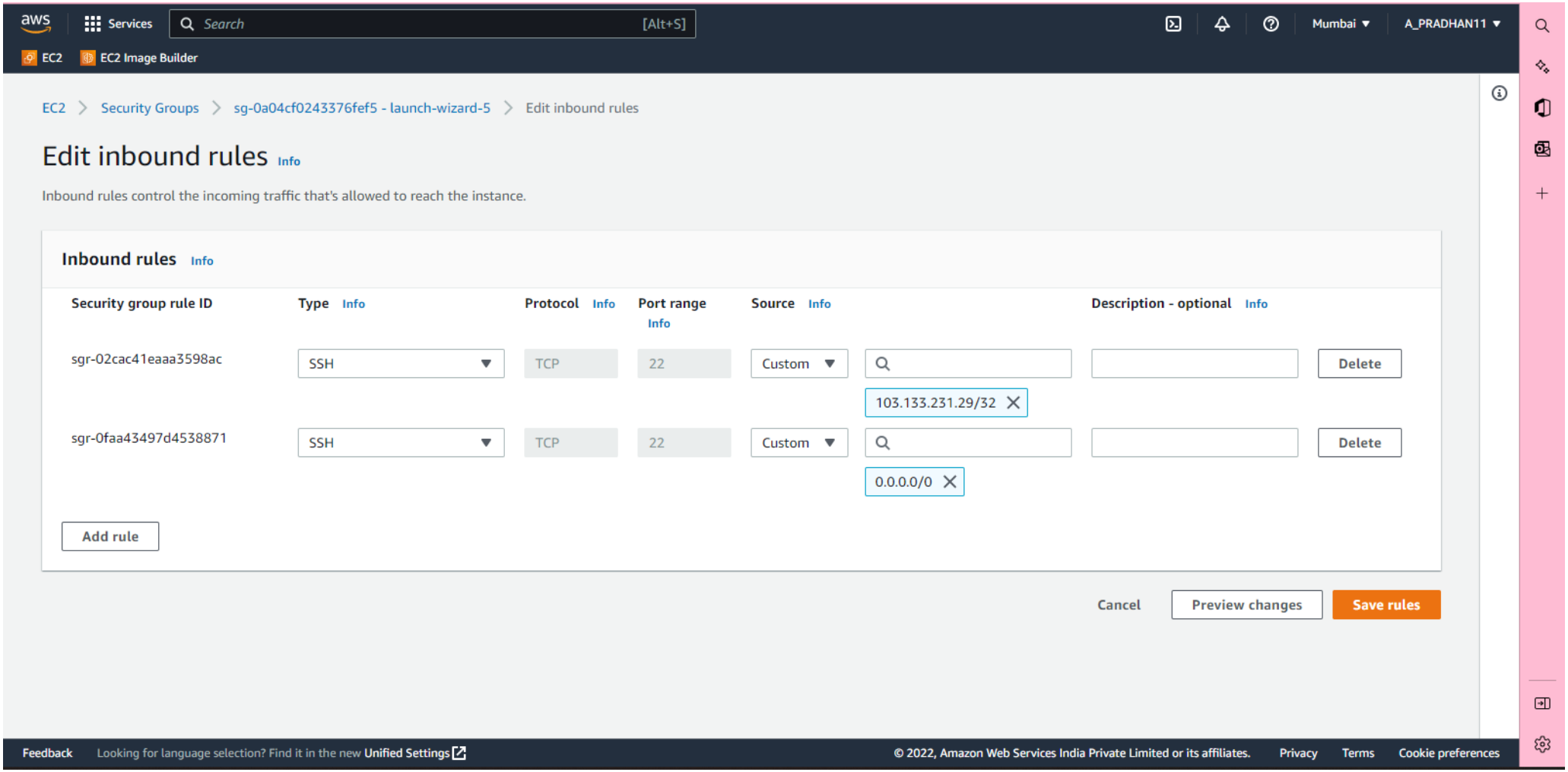
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EC2
EC2 Image Builder
EC2 > Security Groups > sg-0a04cf0243376fef5 - launch-wizard-5 > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-02cac41eaaa3598ac
SSH
TCP
22
Custom
103.133.231.29/32
Delete
sgr-0faa43497d4538871
SSH
TCP
22
Custom
0.0.0.0/0
Delete
Add rule
Cancel
Preview changes
Save rules
Feedback
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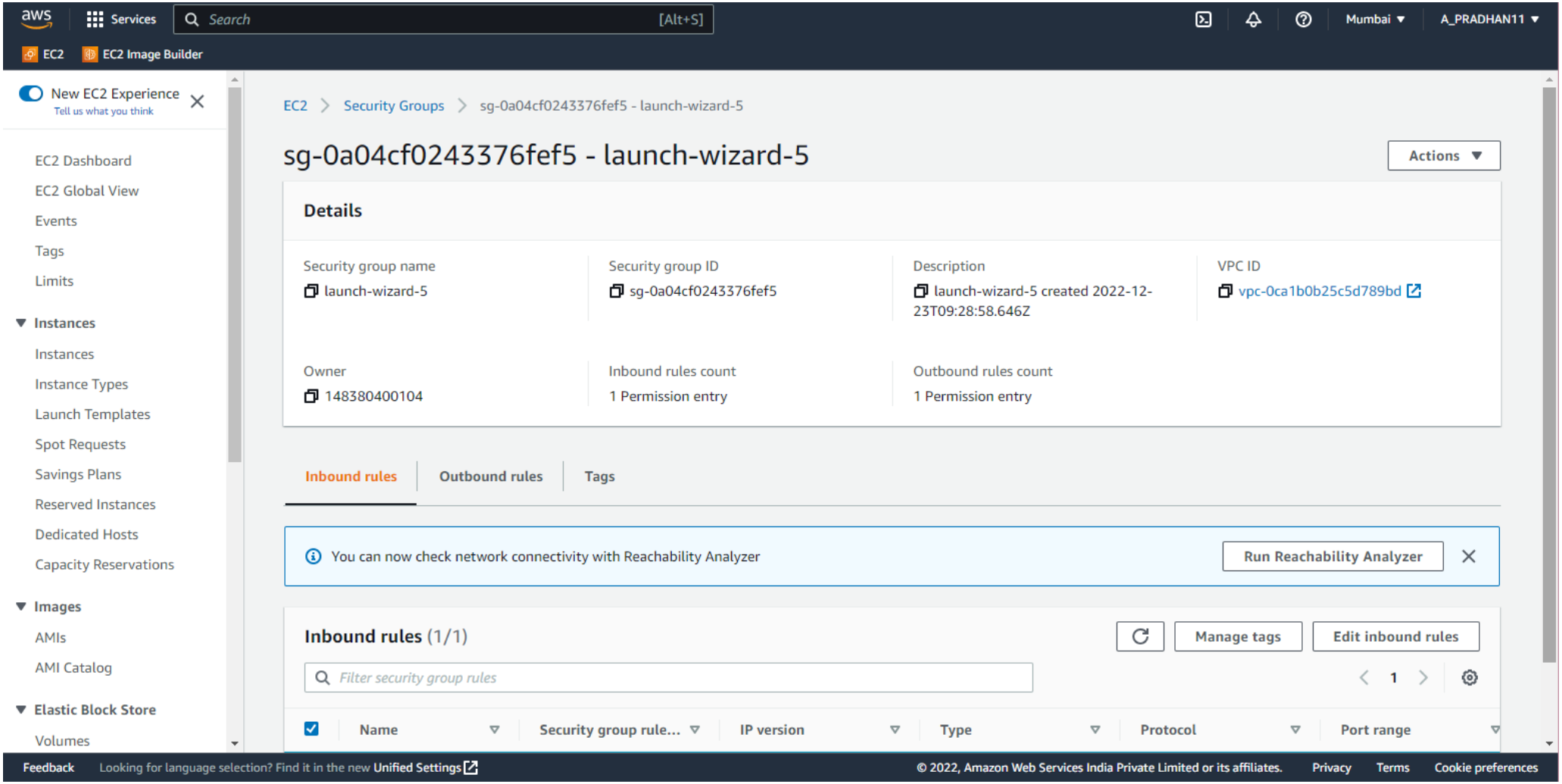
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EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
EC2 > Security Groups > sg-0a04cf0243376fef5 - launch-wizard-5
sg-0a04cf0243376fef5 - launch-wizard-5
Actions
Details
Security group name
launch-wizard-5
Security group ID
sg-0a04cf0243376fef5
Description
launch-wizard-5 created 2022-12-23T09:28:58.646Z
VPC ID
vpc-0ca1b0b25c5d789bd
Owner
148380400104
Inbound rules count
1 Permission entry
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 (1/1)
Manage tags
Edit inbound rules
Filter security group rules
1
Name
Security group rule...
IP version
Type
Protocol
Port range
Feedback
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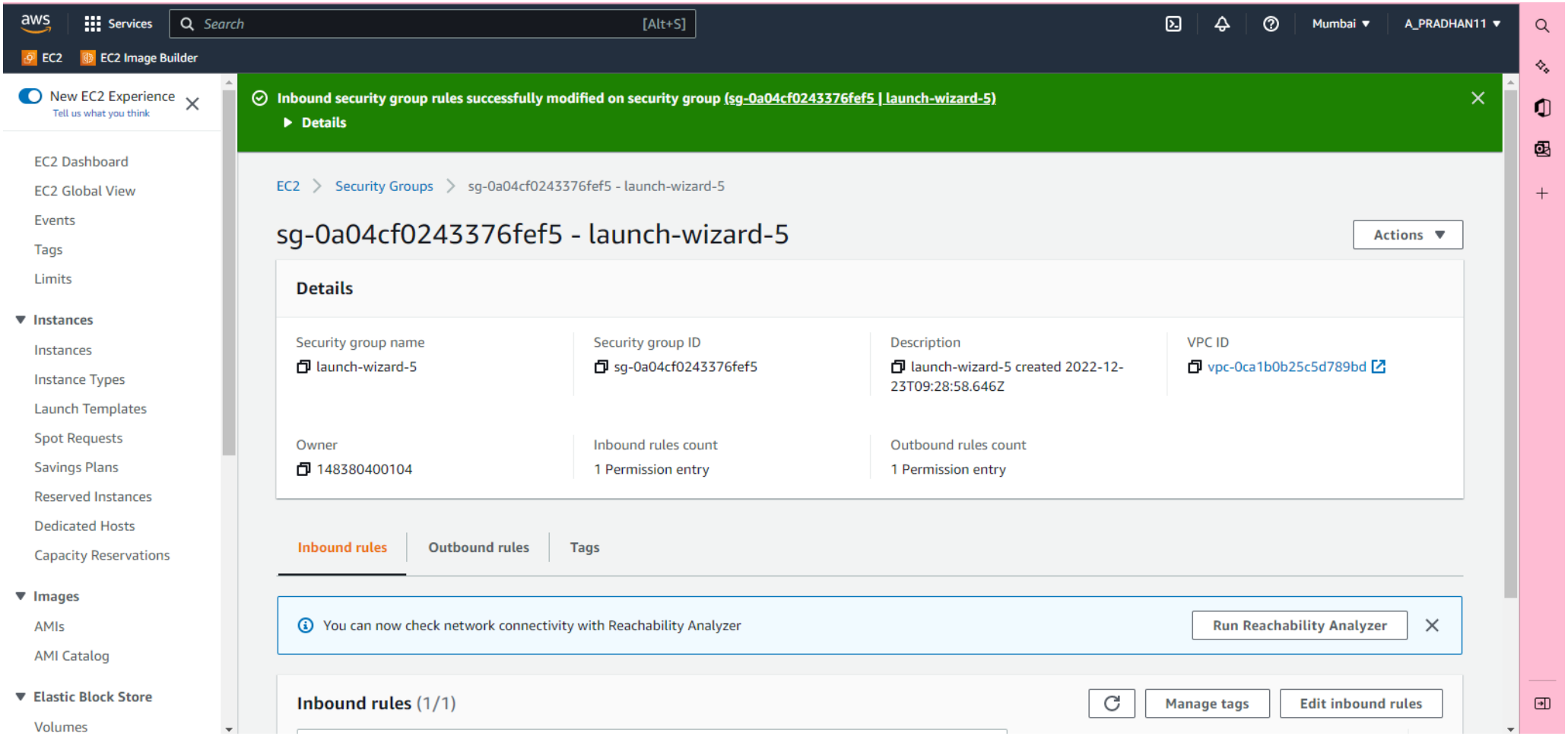
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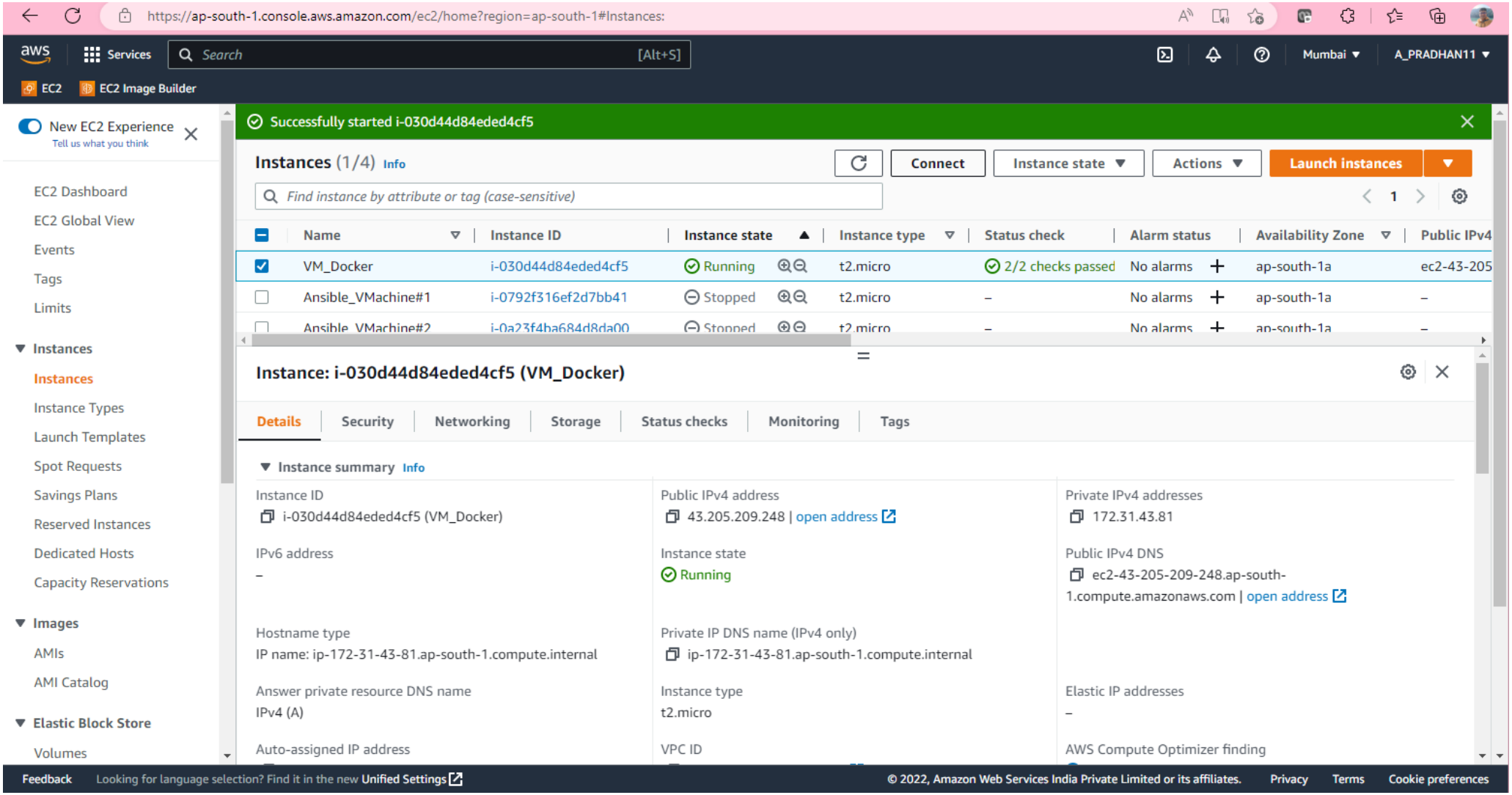
New EC2 Experience
Tell us what you think
Inbound security group rules successfully modified on security group (sg-0a04cf0243376fef5 | launch-wizard-5)
Details
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
EC2 > Security Groups > sg-0a04cf0243376fef5 - launch-wizard-5
sg-0a04cf0243376fef5 - launch-wizard-5
Actions
Details
Security group name
launch-wizard-5
Security group ID
sg-0a04cf0243376fef5
Description
launch-wizard-5 created 2022-12-23T09:28:58.646Z
VPC ID
vpc-0ca1b0b25c5d789bd
Owner
148380400104
Inbound rules count
1 Permission entry
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 (1/1)
Manage tags
Edit inbound rules


https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:
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EC2 Global View
Events
Tags
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
Successfully started i-030d44d84eded4cf5
Instances (1/4) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4
VM_Docker
i-030d44d84eded4cf5
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1a
ec2-43-205
Ansible_VMachine#1
i-0792f316ef2d7bb41
Stopped
t2.micro
No alarms
ap-south-1a
Instance: i-030d44d84eded4cf5 (VM_Docker)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Instance ID
i-030d44d84eded4cf5 (VM_Docker)
IPv6 address
Hostname type
IP name: ip-172-31-43-81.ap-south-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Auto-assigned IP address
Public IPv4 address
43.205.209.248 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-43-81.ap-south-1.compute.internal
Instance type
t2.micro
VPC ID
Private IPv4 addresses
172.31.43.81
Public IPv4 DNS
ec2-43-205-209-248.ap-south-1.compute.amazonaws.com | open address
Elastic IP addresses
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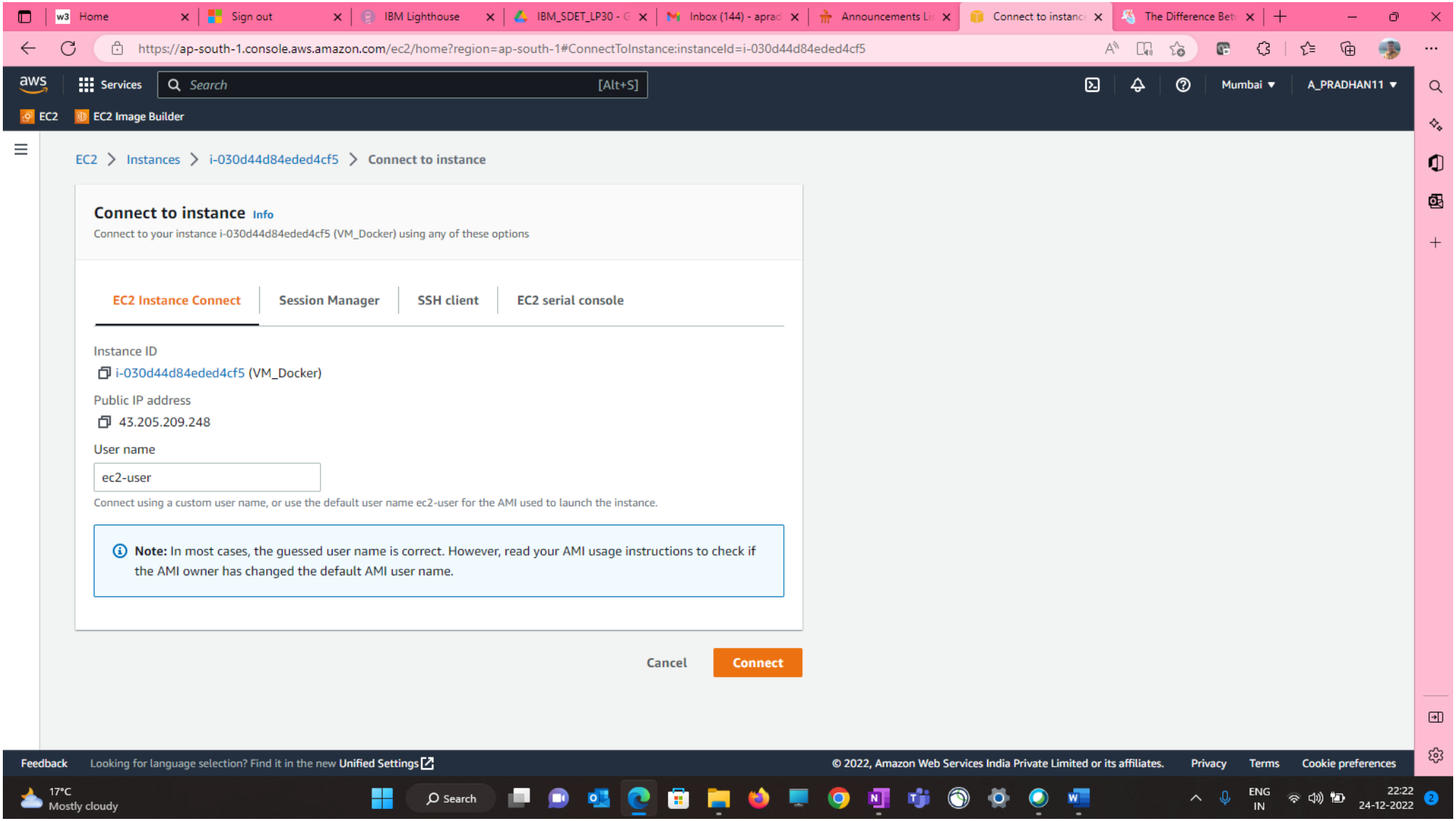
Home
Sign out
IBM Lighthouse
IBM_SDET_LP30 - G
Inbox (144) - aprad
Announcements Lis
Connect to instanc
The Difference Bet
https://ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-030d44d84eded4cf5
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A_PRADHAN11
EC2
EC2 Image Builder
EC2 > Instances > i-030d44d84eded4cf5 > Connect to instance
Connect to instance Info
Connect to your instance i-030d44d84eded4cf5 (VM_Docker) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-030d44d84eded4cf5 (VM_Docker)
Public IP address
43.205.209.248
User name
ec2-user
Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.
Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
Cancel
Connect
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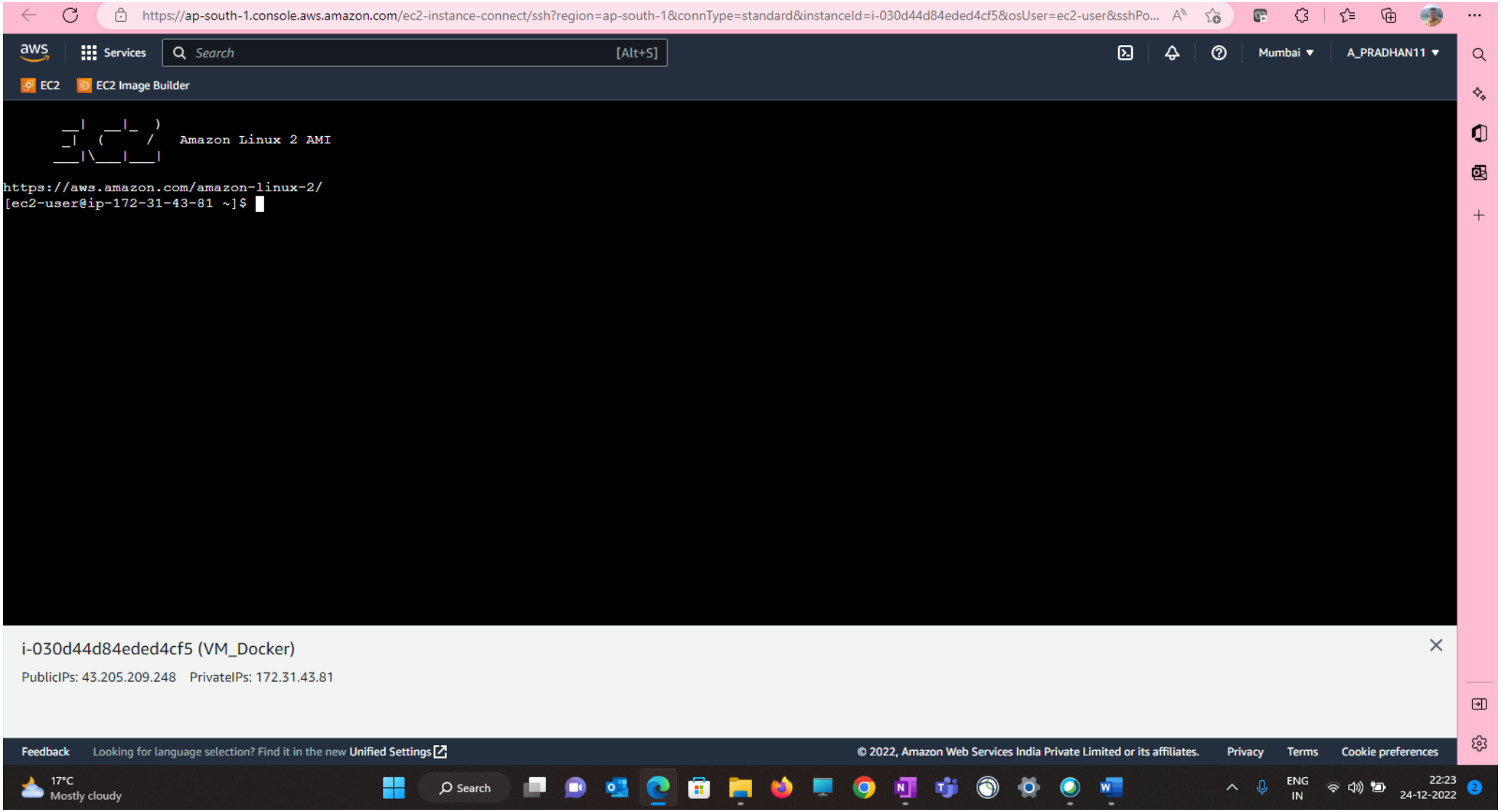
17°C
Mostly cloudy
Search
ENG
IN
22:22
24-12-2022


https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-030d44d84eded4cf5&osUser=ec2-user&sshPo...
aws
Services
Search
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EC2
EC2 Image Builder
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-43-81 ~]$
i-030d44d84eded4cf5 (VM_Docker)
PublicIPs: 43.205.209.248 PrivateIPs: 172.31.43.81
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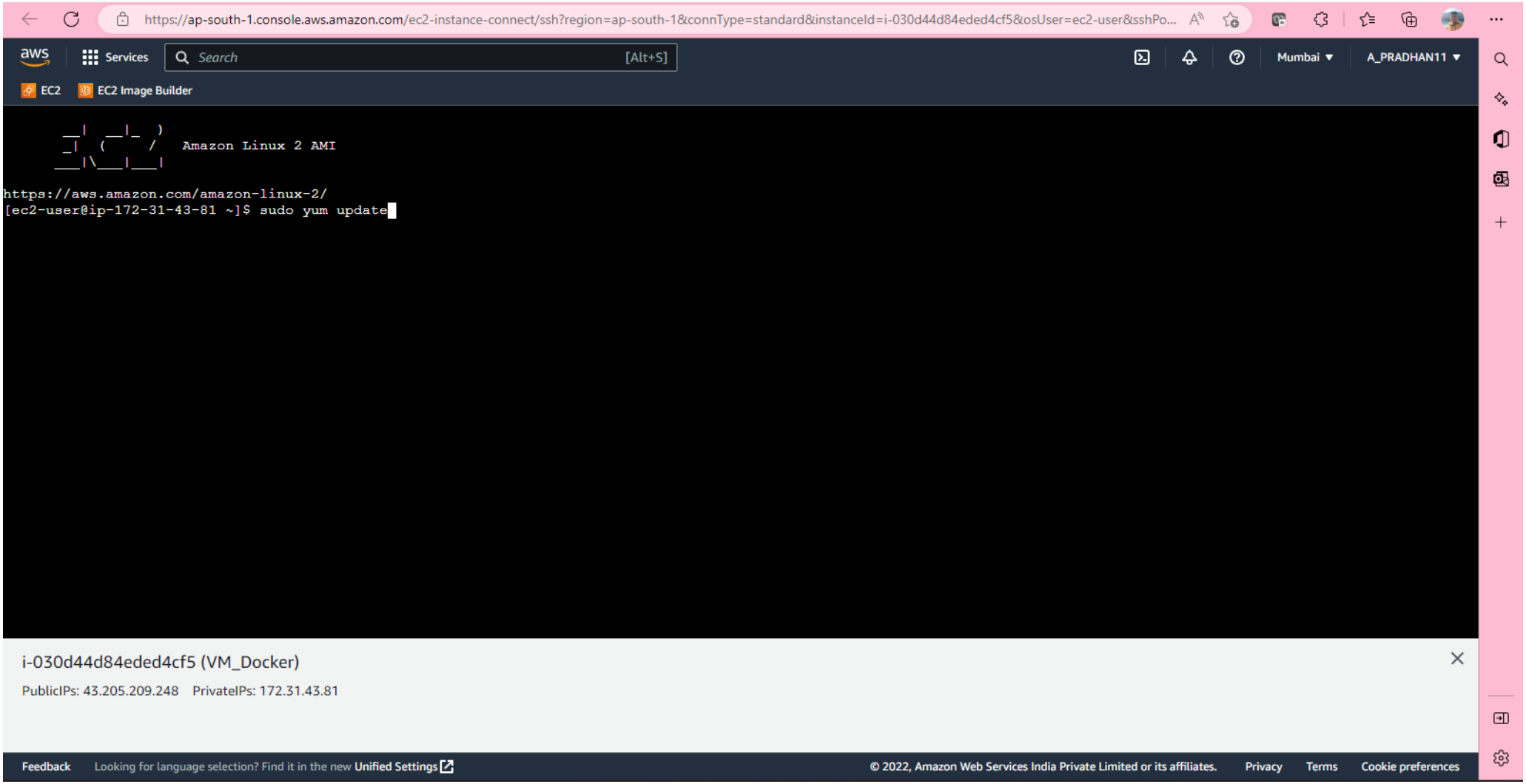
17°C
Mostly cloudy
Search
ENG
IN
22:23
24-12-2022


https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-030d44d84eded4cf5&osUser=ec2-user&sshPo...
aws
Services
Search
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Mumbai
A_PRADHAN11
EC2
EC2 Image Builder
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-43-81 ~]$ sudo yum update
i-030d44d84eded4cf5 (VM_Docker)
PublicIPs: 43.205.209.248 PrivateIPs: 172.31.43.81
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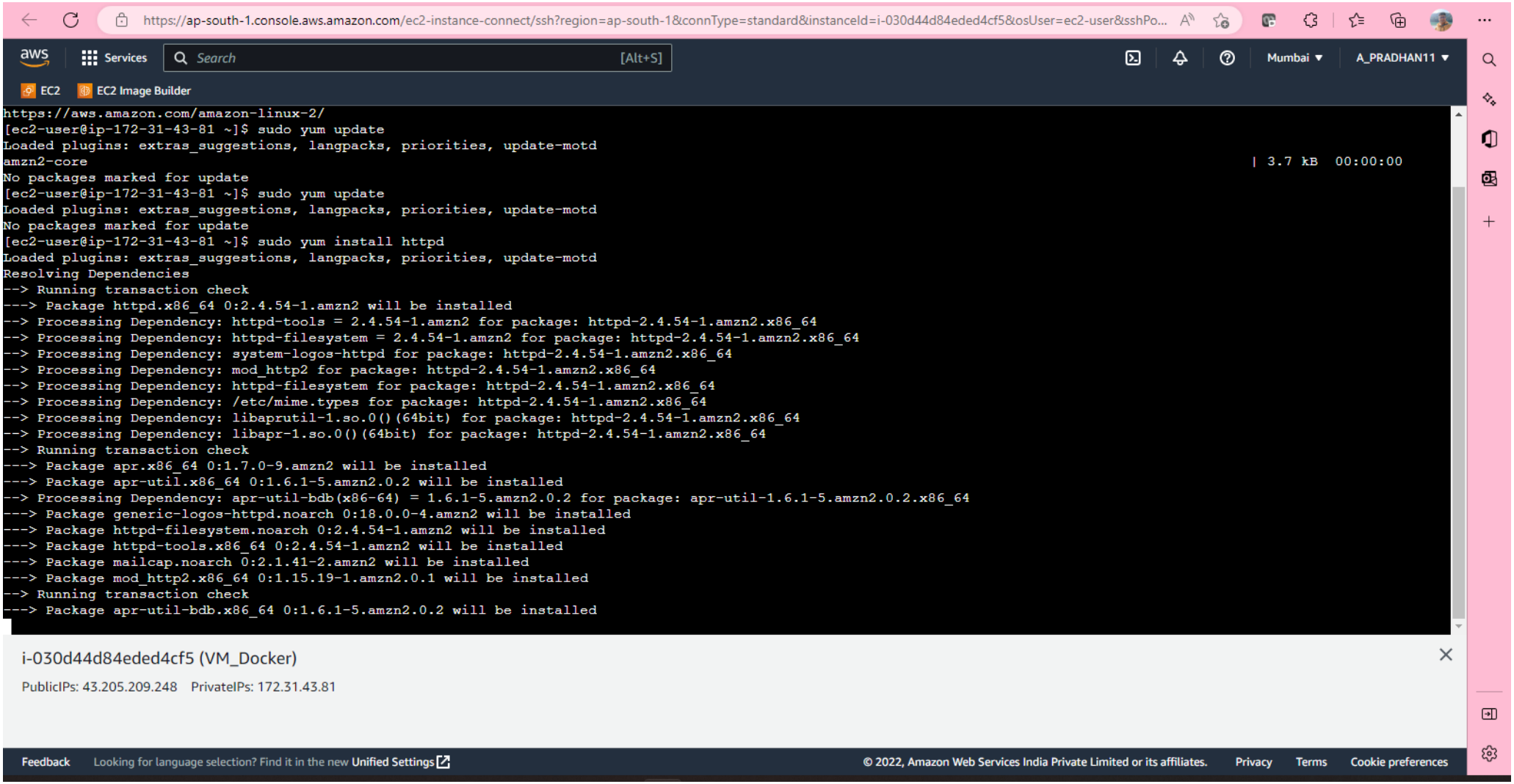
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-030d44d84eded4cf5&osUser=ec2-user&sshPo...
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Mumbai
A_PRADHAN11
EC2
EC2 Image Builder
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-43-81 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
No packages marked for update
[ec2-user@ip-172-31-43-81 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
No packages marked for update
[ec2-user@ip-172-31-43-81 ~]$ sudo yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.54-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd-filesystem.noarch 0:2.4.54-1.amzn2 will be installed
---> Package httpd-tools.x86_64 0:2.4.54-1.amzn2 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.19-1.amzn2.0.1 will be installed
--> Running transaction check
---> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
i-030d44d84eded4cf5 (VM_Docker)
PublicIPs: 43.205.209.248 PrivateIPs: 172.31.43.81
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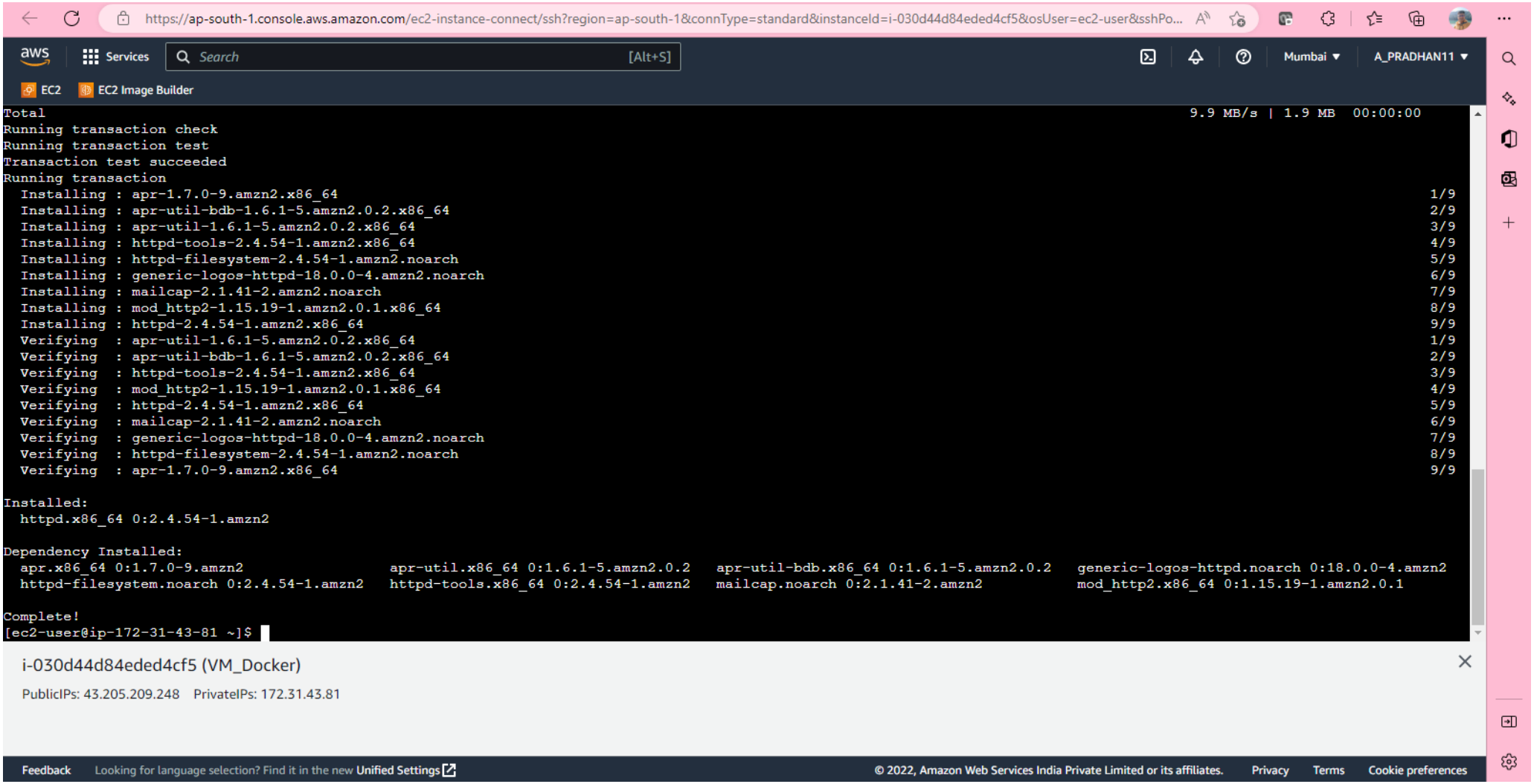
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-030d44d84eded4cf5&osUser=ec2-user&sshPo...
aws
Services
Search
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Mumbai
A_PRADHAN11
EC2
EC2 Image Builder
Total 9.9 MB/s | 1.9 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : apr-1.7.0-9.amzn2.x86_64 1/9
Installing : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Installing : apr-util-1.6.1-5.amzn2.0.2.x86_64 3/9
Installing : httpd-tools-2.4.54-1.amzn2.x86_64 4/9
Installing : httpd-filesystem-2.4.54-1.amzn2.noarch 5/9
Installing : generic-logos-httpd-18.0.0-4.amzn2.noarch 6/9
Installing : mailcap-2.1.41-2.amzn2.noarch 7/9
Installing : mod_http2-1.15.19-1.amzn2.0.1.x86_64 8/9
Installing : httpd-2.4.54-1.amzn2.x86_64 9/9
Verifying : apr-util-1.6.1-5.amzn2.0.2.x86_64 1/9
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64 2/9
Verifying : httpd-tools-2.4.54-1.amzn2.x86_64 3/9
Verifying : mod_http2-1.15.19-1.amzn2.0.1.x86_64 4/9
Verifying : httpd-2.4.54-1.amzn2.x86_64 5/9
Verifying : mailcap-2.1.41-2.amzn2.noarch 6/9
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch 7/9
Verifying : httpd-filesystem-2.4.54-1.amzn2.noarch 8/9
Verifying : apr-1.7.0-9.amzn2.x86_64 9/9
Installed:
httpd.x86_64 0:2.4.54-1.amzn2
Dependency Installed:
apr.x86_64 0:1.7.0-9.amzn2 apr-util.x86_64 0:1.6.1-5.amzn2.0.2 apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 generic-logos-httpd.noarch 0:18.0.0-4.amzn2
httpd-filesystem.noarch 0:2.4.54-1.amzn2 httpd-tools.x86_64 0:2.4.54-1.amzn2 mailcap.noarch 0:2.1.41-2.amzn2 mod_http2.x86_64 0:1.15.19-1.amzn2.0.1
Complete!
[ec2-user@ip-172-31-43-81 ~]$
i-030d44d84eded4cf5 (VM_Docker)
PublicIPs: 43.205.209.248 PrivateIPs: 172.31.43.81
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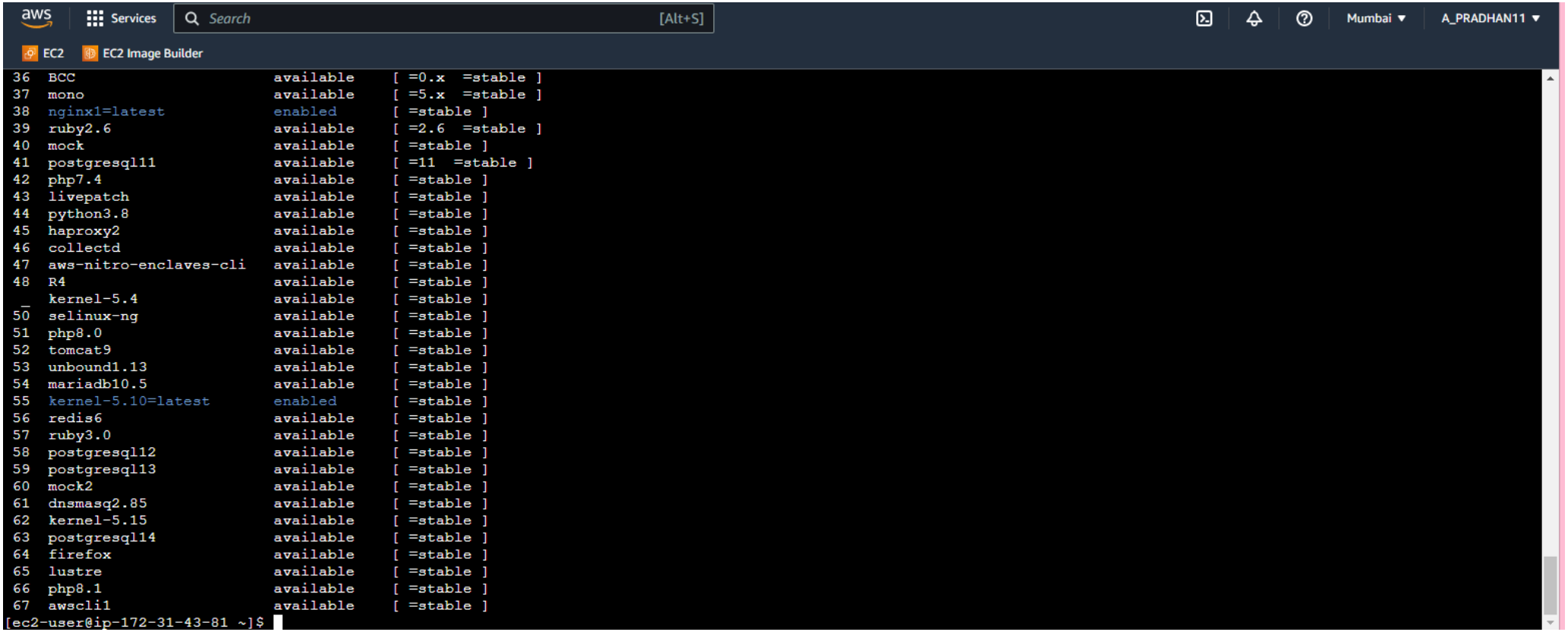
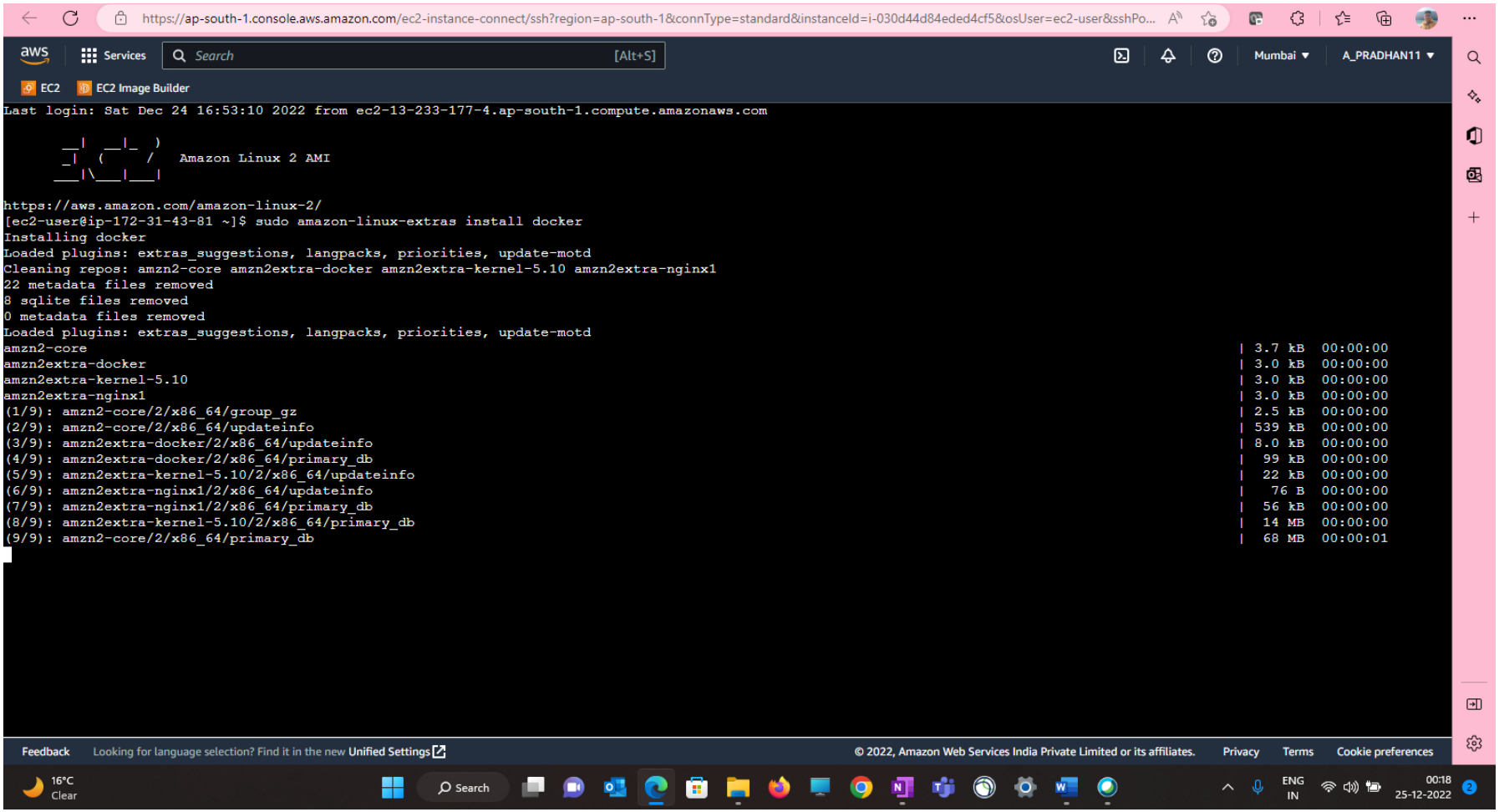


Using below Commands

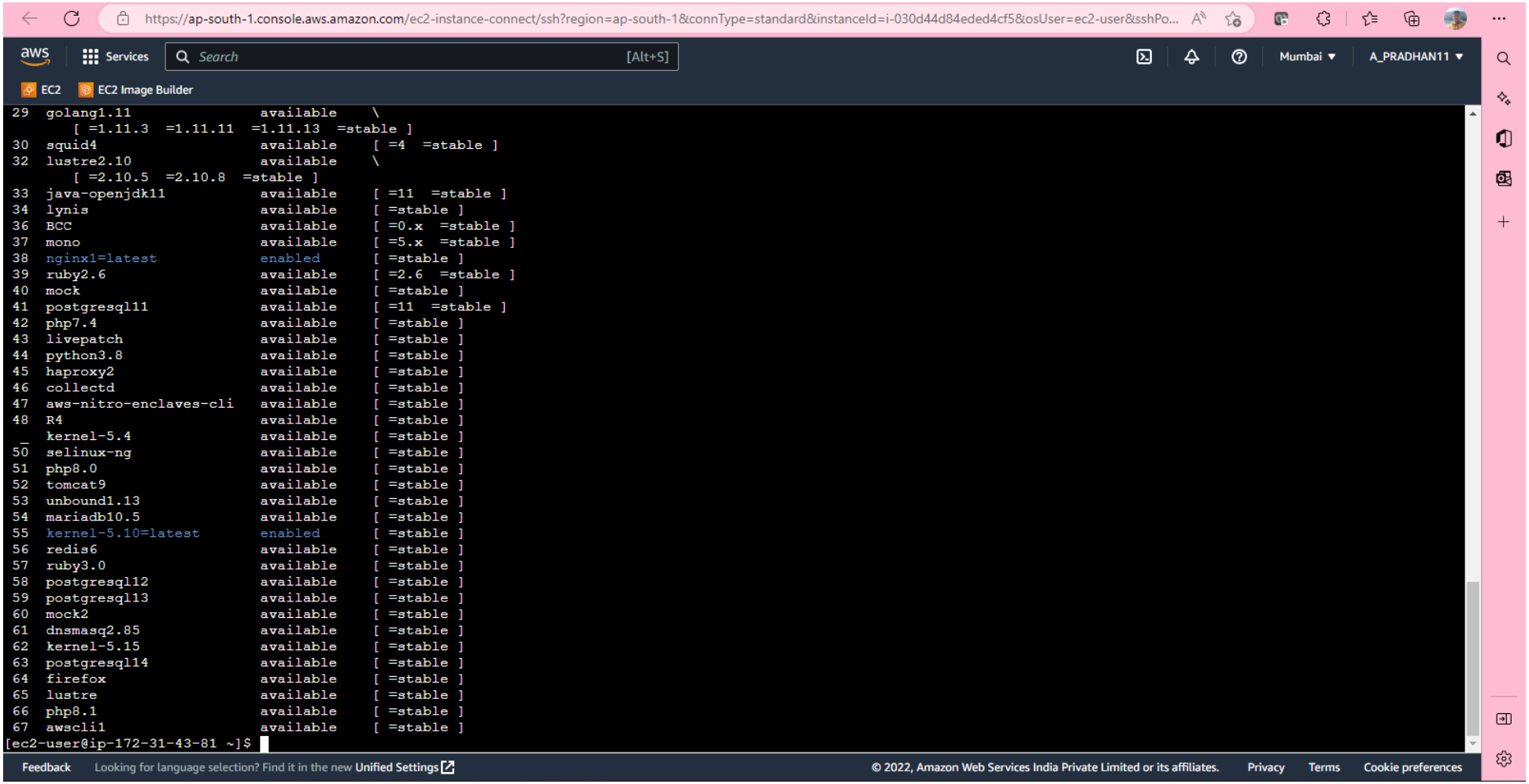
1) sudo amazon-linux-extras install docker
2) sudo service docker start
3) sudo systemctl start docker
4) sudo systemctl enable docker

1) **sudo amazon-linux-extras install docker**



2) sudo service docker start

3)


https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-030d44d84eded4cf5&osUser=ec2-user&sshPo...
aws
Services
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Mumbai
A_PRADHAN11
EC2
EC2 Image Builder
29 golang1.11 available \
[=1.11.3 =1.11.11 =1.11.13 =stable]
30 squid4 available [=4 =stable]
32 lustre2.10 available \
[=2.10.5 =2.10.8 =stable]
33 java-openjdk11 available [=11 =stable]
34 lynis available [=stable]
36 BCC available [=0.x =stable]
37 mono available [=5.x =stable]
38 nginx1=latest enabled [=stable]
39 ruby2.6 available [=2.6 =stable]
40 mock available [=stable]
41 postgresql11 available [=11 =stable]
42 php7.4 available [=stable]
43 livepatch available [=stable]
44 python3.8 available [=stable]
45 haproxy2 available [=stable]
46 collectd available [=stable]
47 aws-nitro-enclaves-cli available [=stable]
48 R4 available [=stable]
_ kernel-5.4 available [=stable]
50 selinux-ng available [=stable]
51 php8.0 available [=stable]
52 tomcat9 available [=stable]
53 unbound1.13 available [=stable]
54 mariadb10.5 available [=stable]
55 kernel-5.10=latest enabled [=stable]
56 redis6 available [=stable]
57 ruby3.0 available [=stable]
58 postgresql12 available [=stable]
59 postgresql13 available [=stable]
60 mock2 available [=stable]
61 dnsmasq2.85 available [=stable]
62 kernel-5.15 available [=stable]
63 postgresql14 available [=stable]
64 firefox available [=stable]
65 lustre available [=stable]
66 php8.1 available [=stable]
67 awscli1 available [=stable]
[ec2-user@ip-172-31-43-81 ~]$
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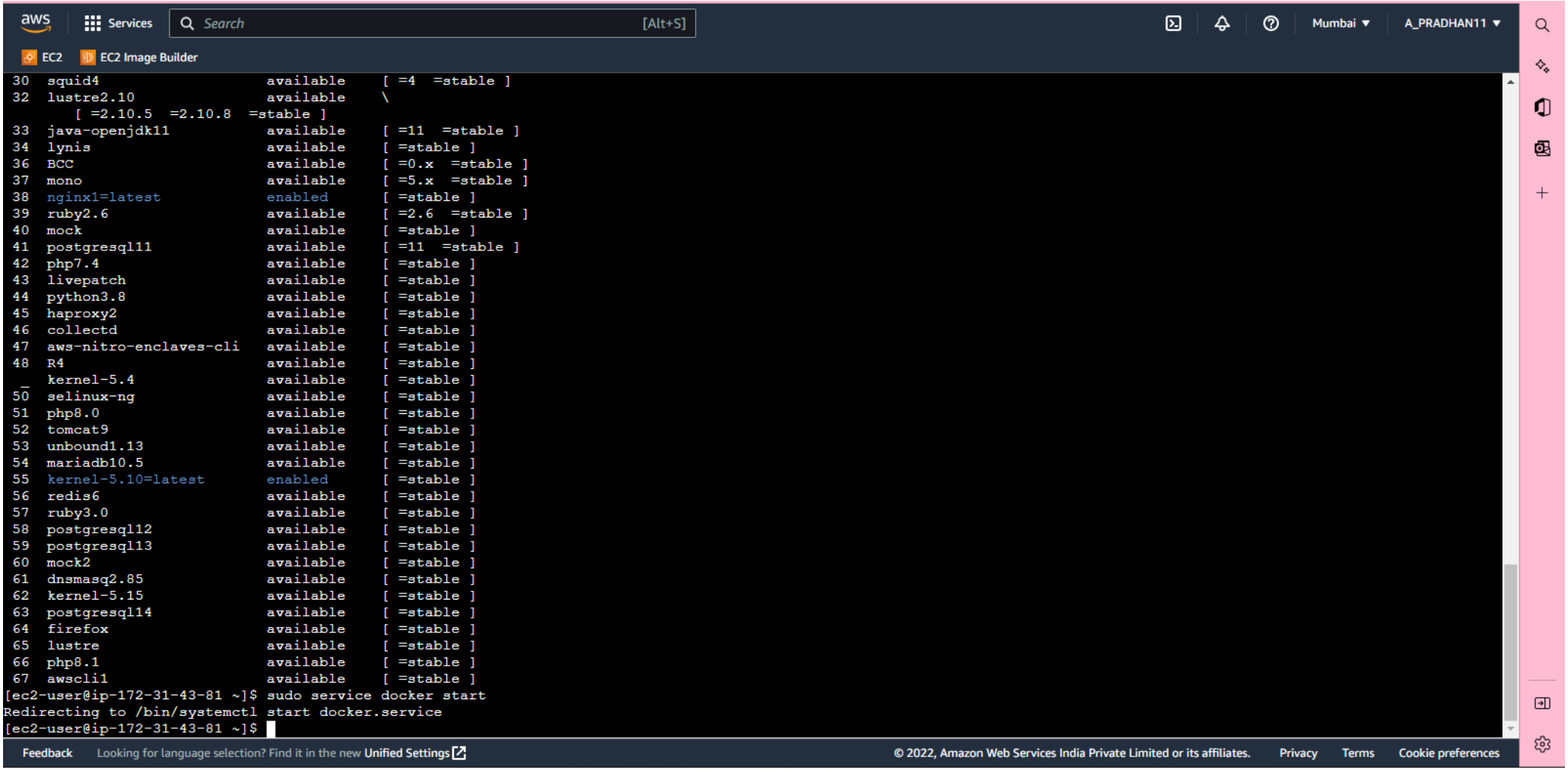
aws
Services
Search
[Alt+S]
Mumbai
A_PRADHAN11
EC2
EC2 Image Builder
30 squid4 available [=4 =stable]
32 lustre2.10 available \
[=2.10.5 =2.10.8 =stable]
33 java-openjdk11 available [=11 =stable]
34 lynis available [=stable]
36 BCC available [=0.x =stable]
37 mono available [=5.x =stable]
38 nginx1=latest enabled [=stable]
39 ruby2.6 available [=2.6 =stable]
40 mock available [=stable]
41 postgresql11 available [=11 =stable]
42 php7.4 available [=stable]
43 livepatch available [=stable]
44 python3.8 available [=stable]
45 haproxy2 available [=stable]
46 collectd available [=stable]
47 aws-nitro-enclaves-cli available [=stable]
48 R4 available [=stable]
_ kernel-5.4 available [=stable]
50 selinux-ng available [=stable]
51 php8.0 available [=stable]
52 tomcat9 available [=stable]
53 unbound1.13 available [=stable]
54 mariadb10.5 available [=stable]
55 kernel-5.10=latest enabled [=stable]
56 redis6 available [=stable]
57 ruby3.0 available [=stable]
58 postgresql12 available [=stable]
59 postgresql13 available [=stable]
60 mock2 available [=stable]
61 dnsmasq2.85 available [=stable]
62 kernel-5.15 available [=stable]
63 postgresql14 available [=stable]
64 firefox available [=stable]
65 lustre available [=stable]
66 php8.1 available [=stable]
67 awscli1 available [=stable]
[ec2-user@ip-172-31-43-81 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-43-81 ~]$
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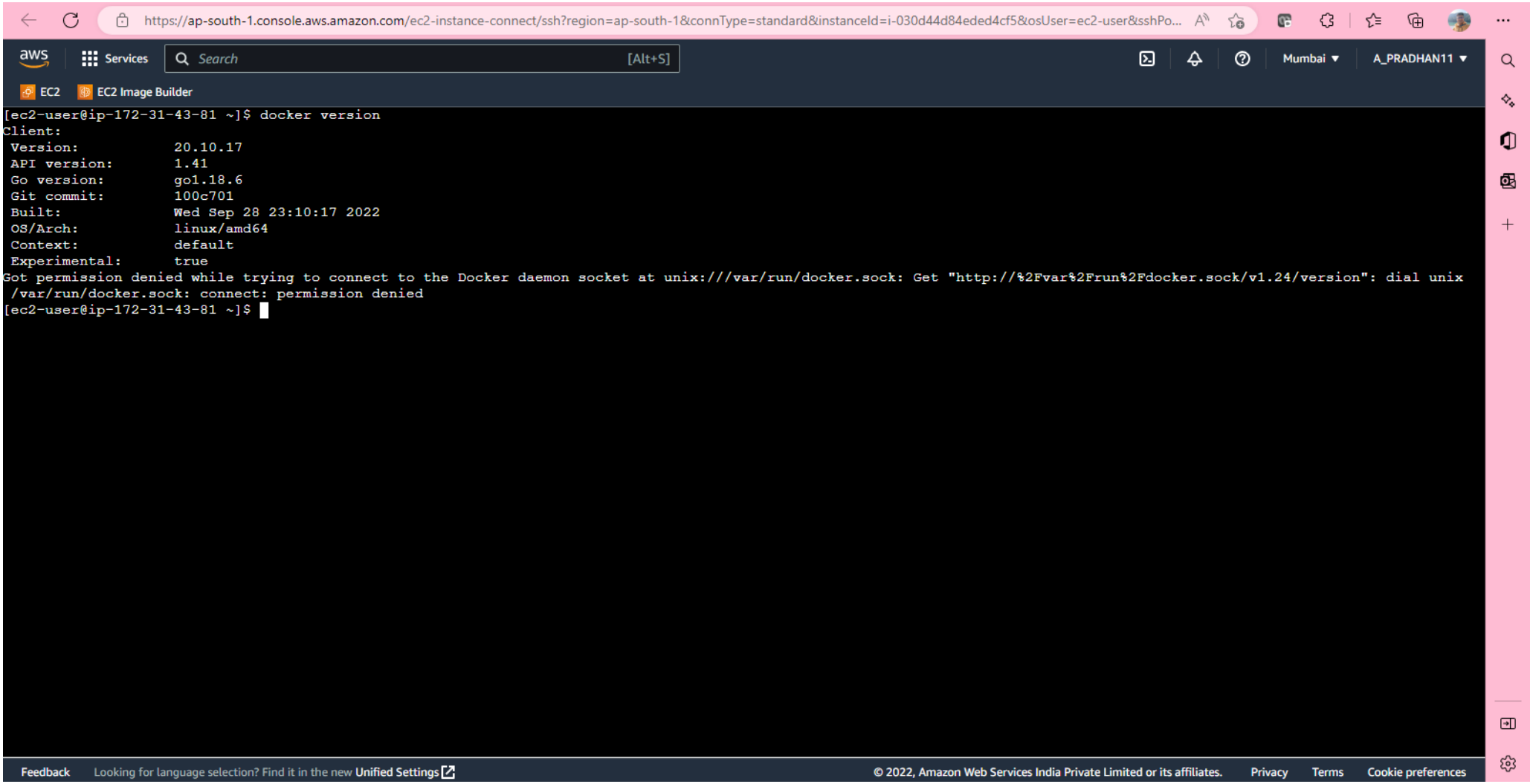
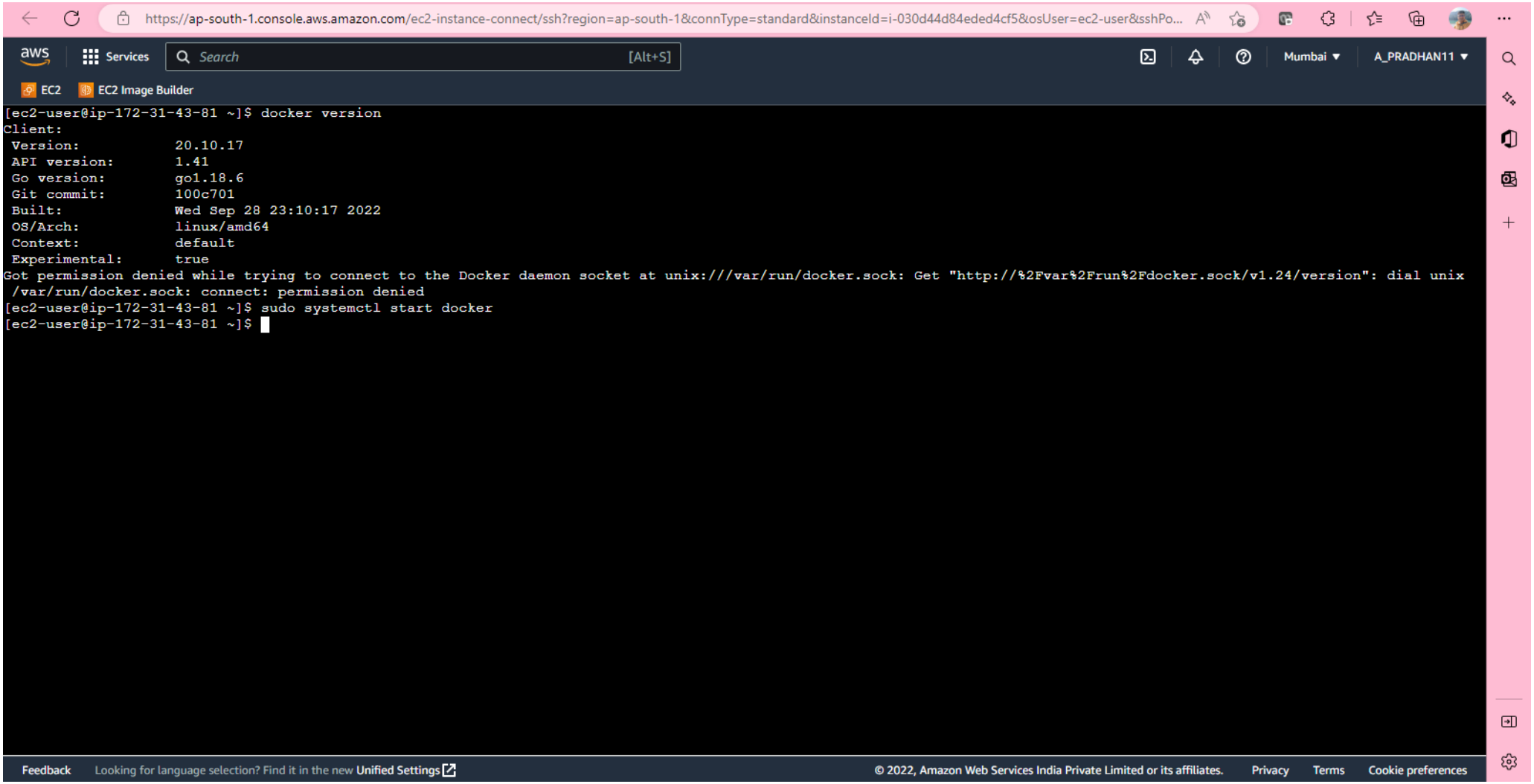
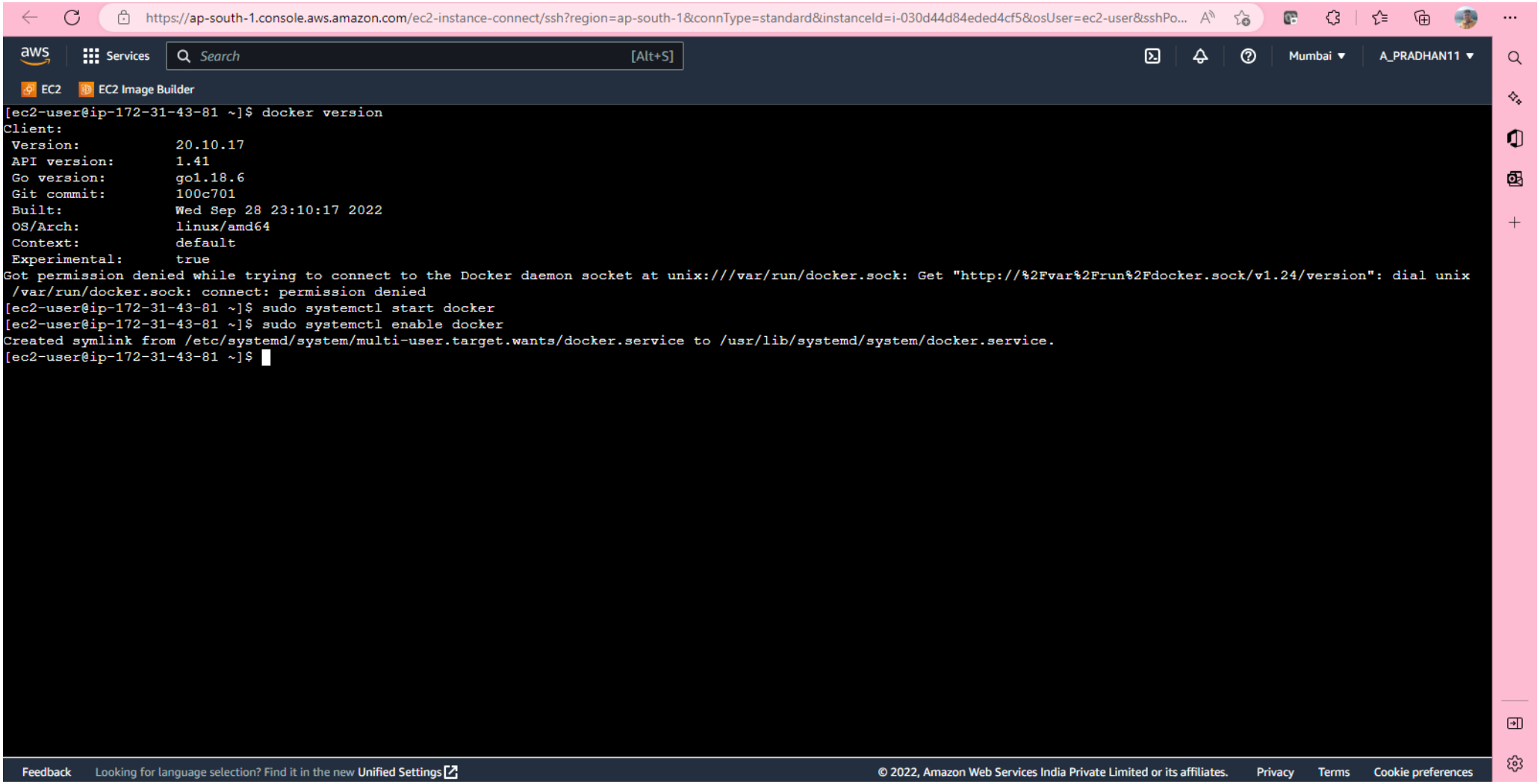


3) sudo systemctl start docker



4) sudo systemctl enable docker


https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-030d44d84eded4cf5&osUser=ec2-user&sshPo...
aws
Services
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Mumbai
A_PRADHAN11
EC2
EC2 Image Builder
[ec2-user@ip-172-31-43-81 ~]$ docker version
Client:
Version: 20.10.17
API version: 1.41
Go version: go1.18.6
Git commit: 100c701
Built: Wed Sep 28 23:10:17 2022
OS/Arch: linux/amd64
Context: default
Experimental: true
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied
[ec2-user@ip-172-31-43-81 ~]$ sudo systemctl start docker
[ec2-user@ip-172-31-43-81 ~]$ sudo systemctl enable docker
Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to /usr/lib/systemd/system/docker.service.
[ec2-user@ip-172-31-43-81 ~]$
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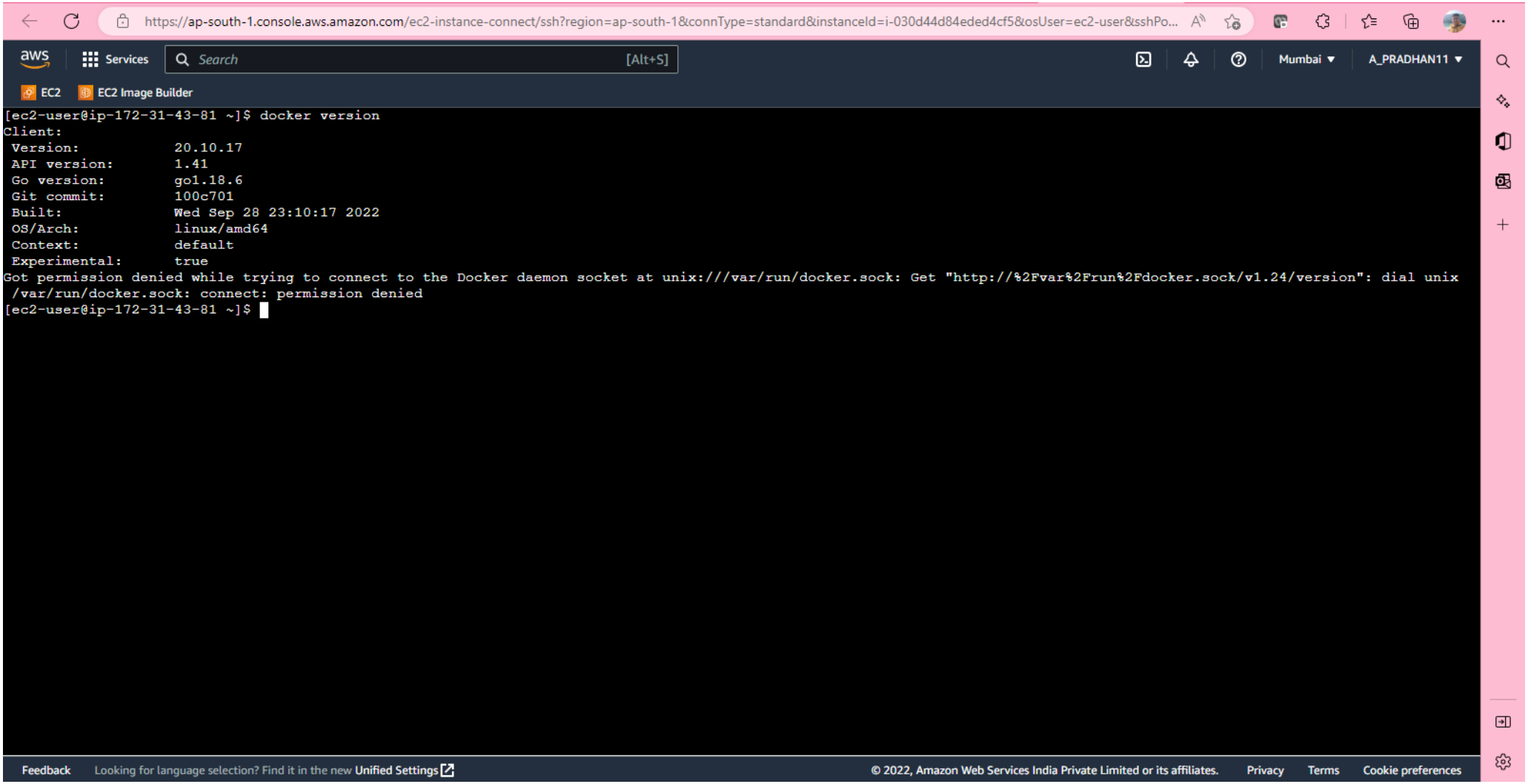
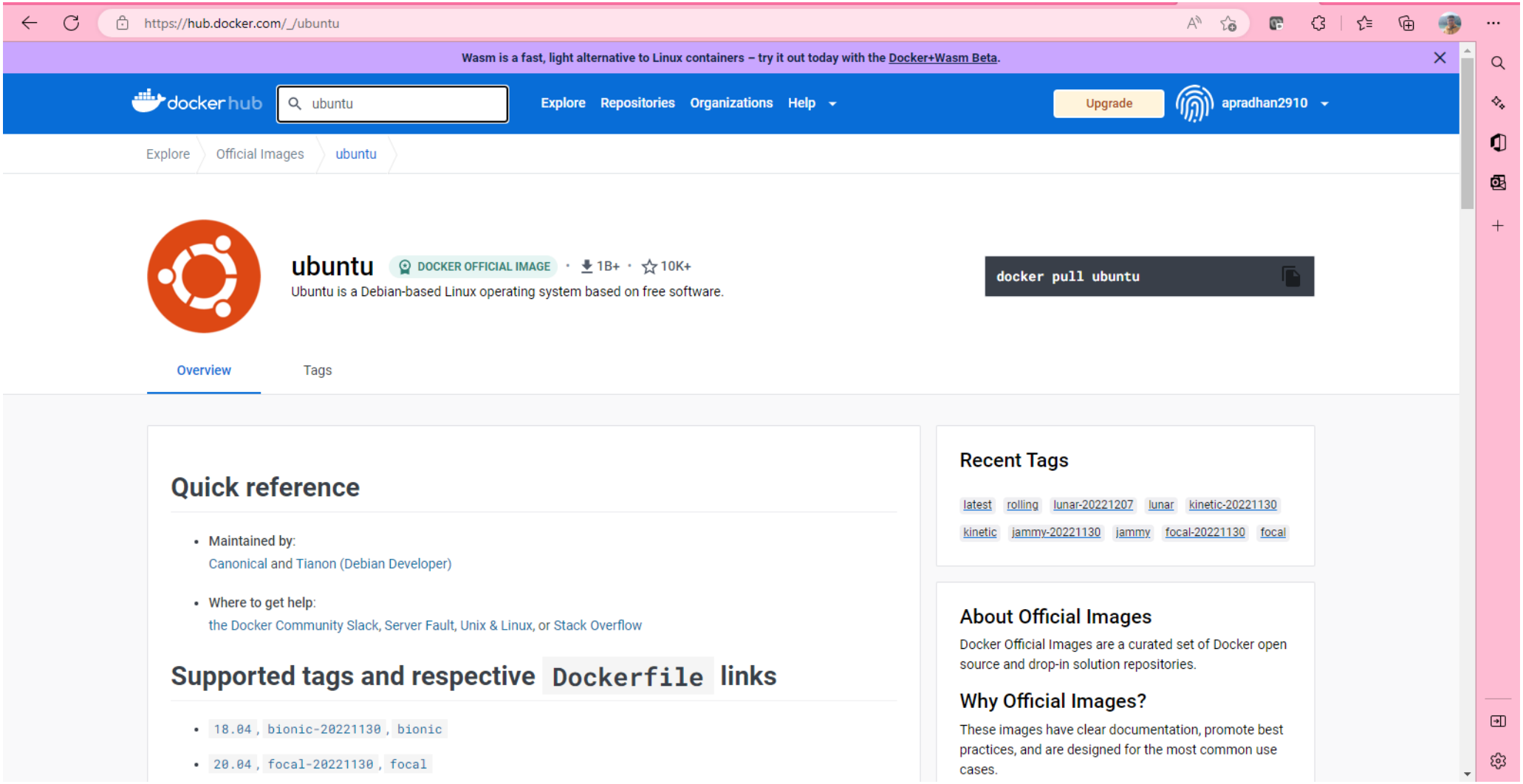


Now Installing Ubuntu Image from the URL: https://hub.docker.com/


https://hub.docker.com/_/ubuntu
Wasm is a fast, light alternative to Linux containers – try it out today with the Docker+Wasm Beta.
docker hub
ubuntu
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Explore
Official Images
ubuntu
ubuntu
DOCKER OFFICIAL IMAGE
1B+
10K+
Ubuntu is a Debian-based Linux operating system based on free software.
docker pull ubuntu
Overview
Tags
Quick reference
Maintained by:
Canonical and Tianon (Debian Developer)
Where to get help:
the Docker Community Slack, Server Fault, Unix & Linux, or Stack Overflow
Supported tags and respective Dockerfile links
18.04, bionic-20221130, bionic
20.04, focal-20221130, focal
Recent Tags
latest
rolling
lunar-20221207
lunar
kinetic-20221130
kinetic
jammy-20221130
jammy
focal-20221130
focal
About Official Images
Docker Official Images are a curated set of Docker open source and drop-in solution repositories.
Why Official Images?
These images have clear documentation, promote best practices, and are designed for the most common use cases.

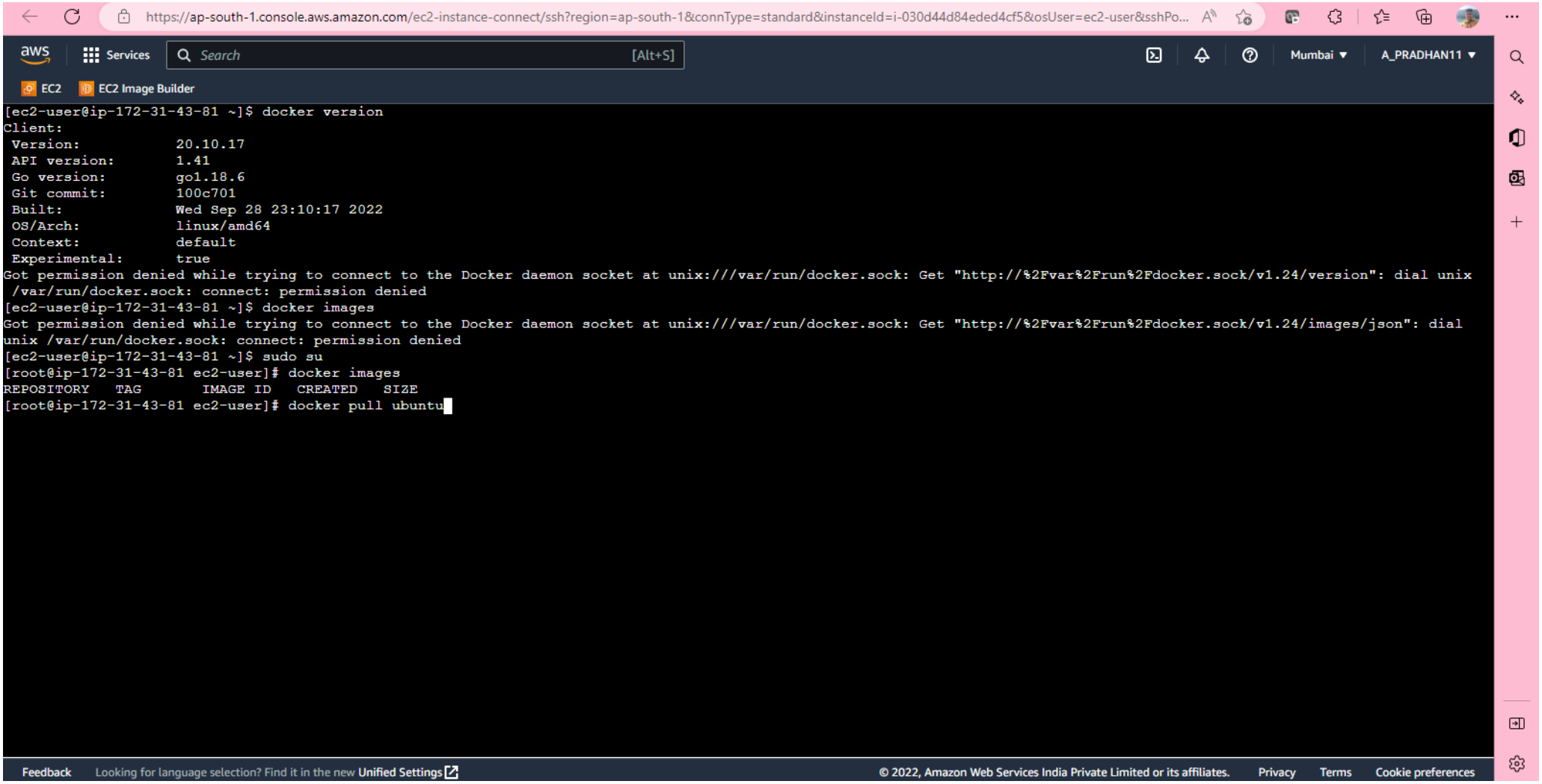
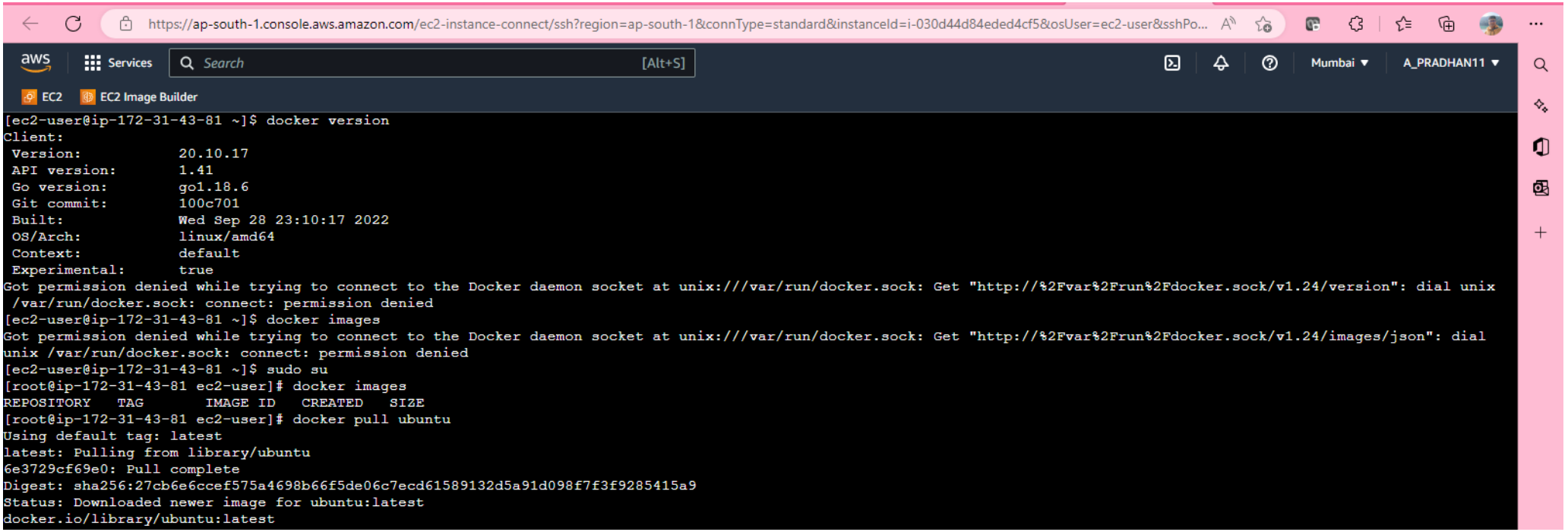
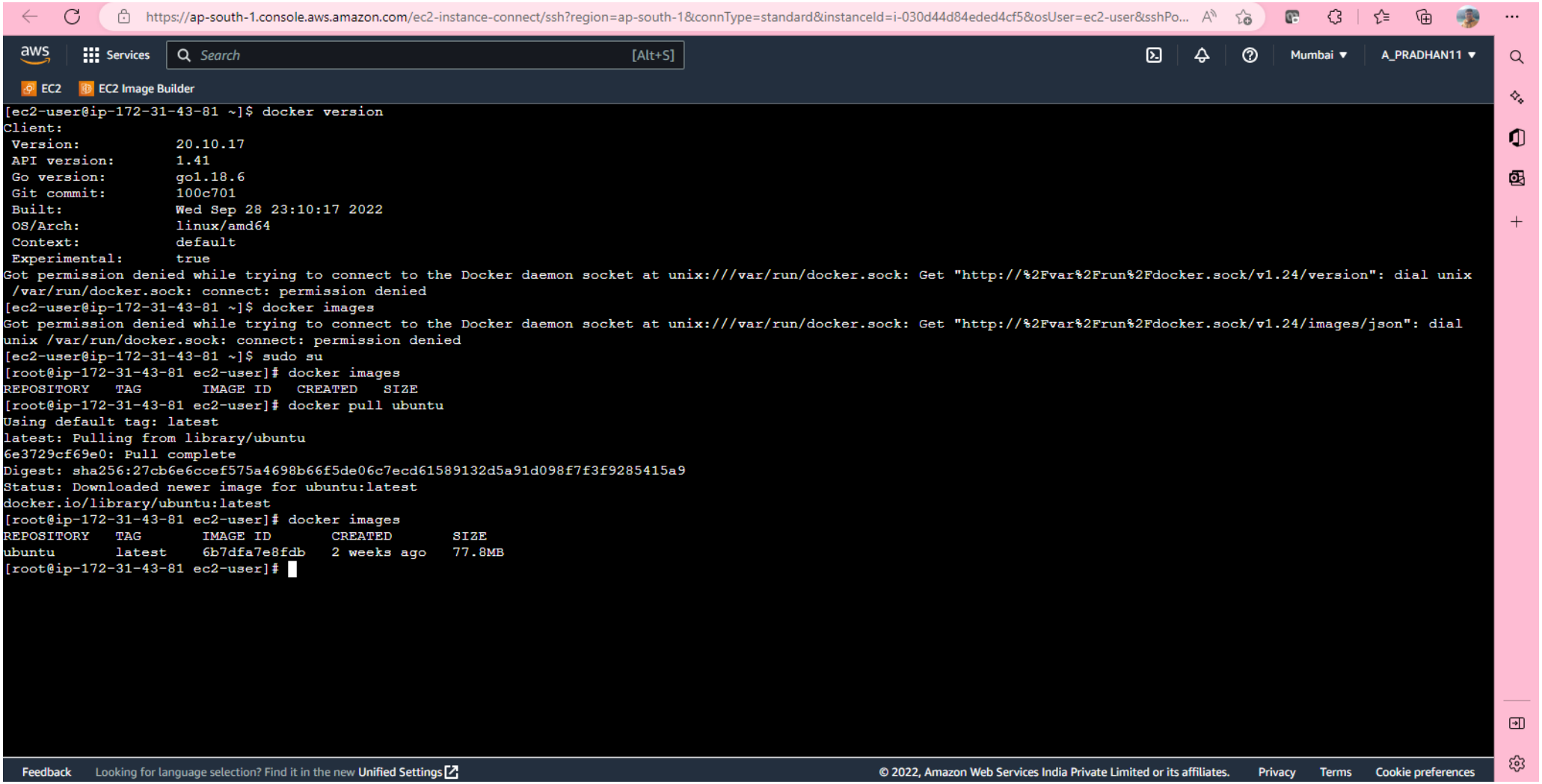


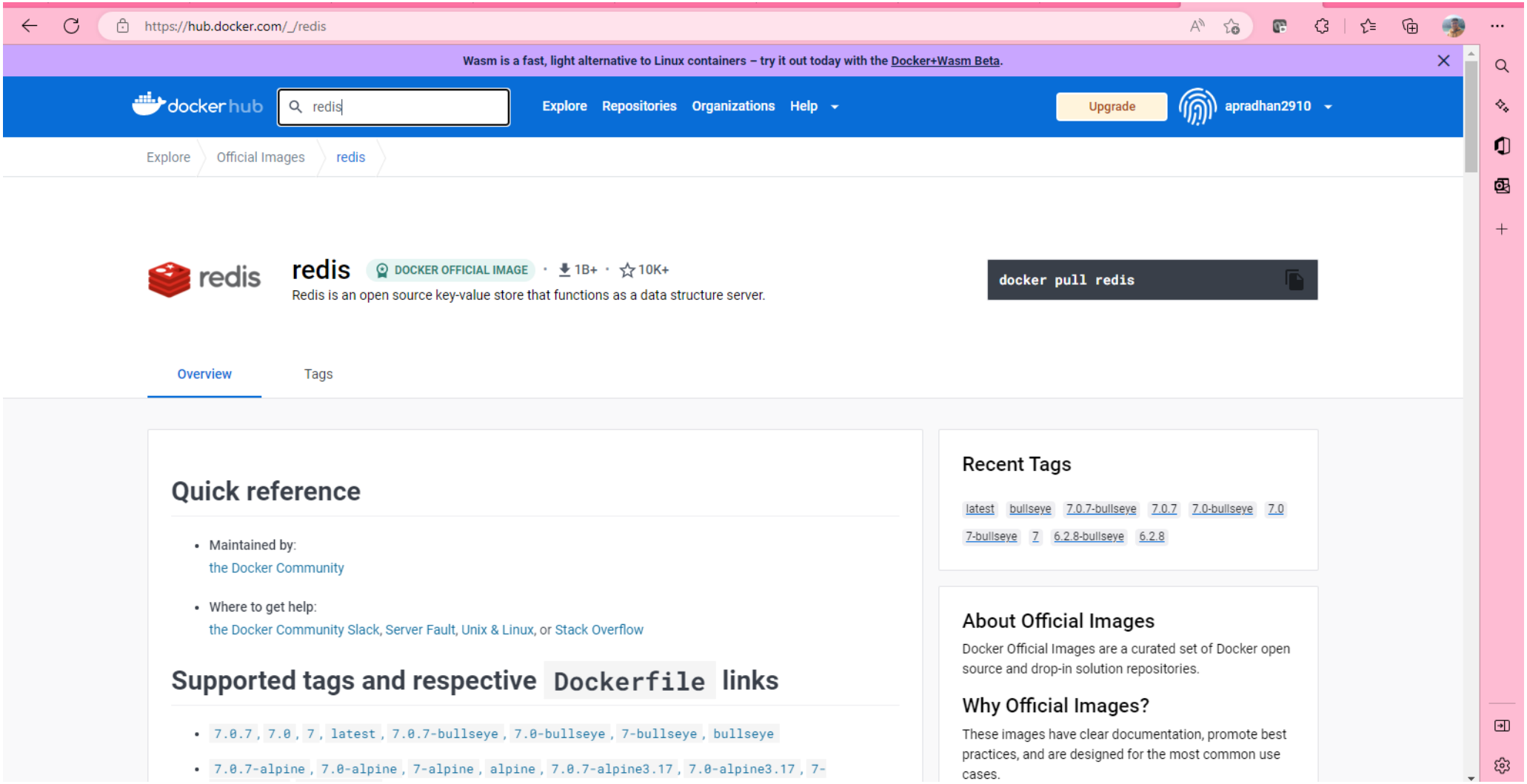
Image installed



Checking the Images



Now installing redis


https://hub.docker.com/_/redis
Wasm is a fast, light alternative to Linux containers – try it out today with the Docker+Wasm Beta.
docker hub
redis
Explore
Repositories
Organizations
Help
Upgrade
apradhan2910
Explore
Official Images
redis
redis
DOCKER OFFICIAL IMAGE
1B+
10K+
Redis is an open source key-value store that functions as a data structure server.
docker pull redis
Overview
Tags
Quick reference
Maintained by:
the Docker Community
Where to get help:
the Docker Community Slack, Server Fault, Unix & Linux, or Stack Overflow
Supported tags and respective Dockerfile links
7.0.7, 7.0, 7, latest, 7.0.7-bullseye, 7.0-bullseye, 7-bullseye, bullseye
7.0.7-alpine, 7.0-alpine, 7-alpine, alpine, 7.0.7-alpine3.17, 7.0-alpine3.17, 7-
Recent Tags
latest
bullseye
7.0.7-bullseye
7.0.7
7.0-bullseye
7.0
7-bullseye
7
6.2.8-bullseye
6.2.8
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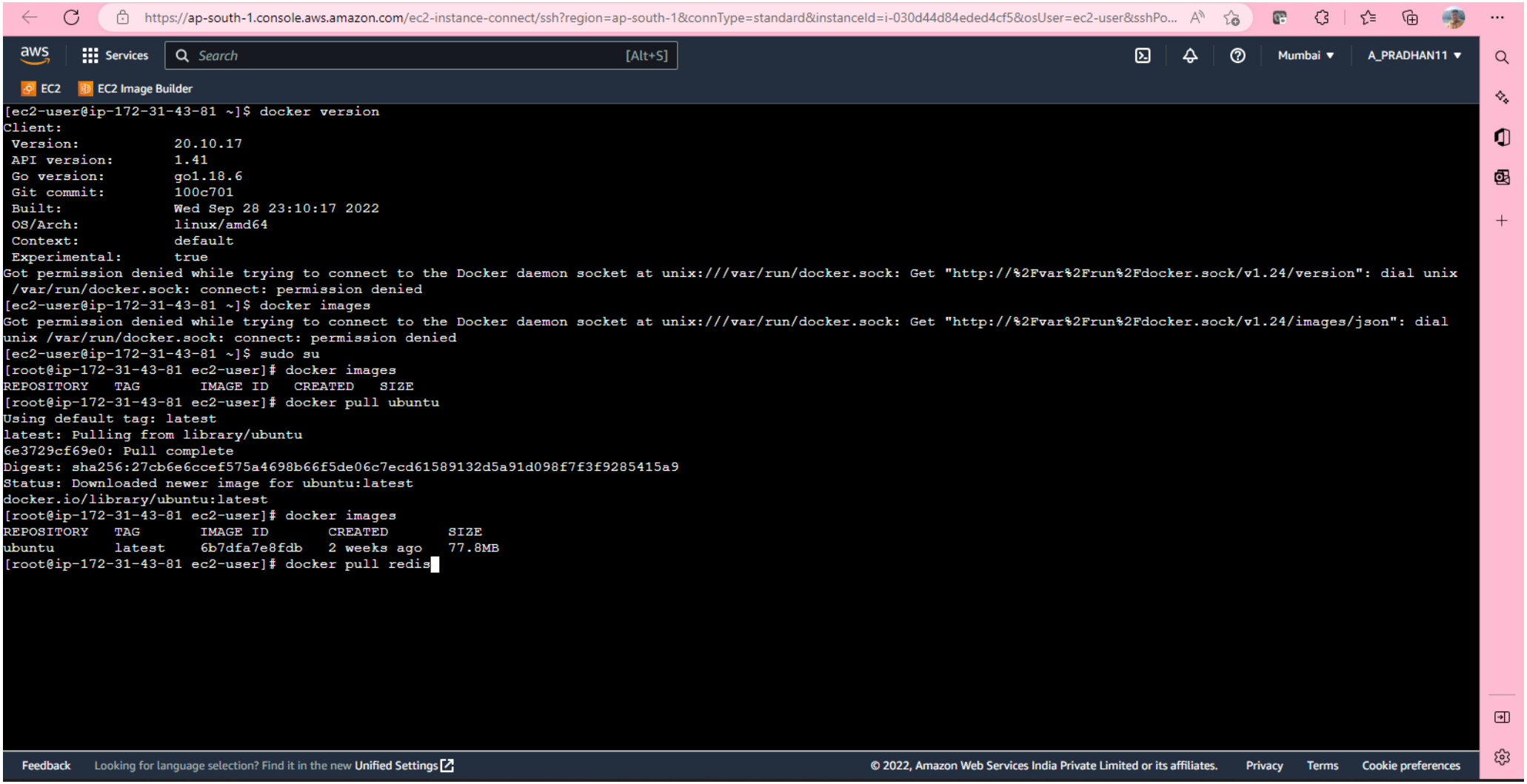
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-030d44d84eded4cf5&osUser=ec2-user&sshPo...
aws
Services
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Mumbai
A_PRADHAN11
EC2
EC2 Image Builder
[ec2-user@ip-172-31-43-81 ~]$ docker version
Client:
Version: 20.10.17
API version: 1.41
Go version: go1.18.6
Git commit: 100c701
Built: Wed Sep 28 23:10:17 2022
OS/Arch: linux/amd64
Context: default
Experimental: true
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied
[ec2-user@ip-172-31-43-81 ~]$ docker images
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json": dial unix /var/run/docker.sock: connect: permission denied
[ec2-user@ip-172-31-43-81 ~]$ sudo su
[root@ip-172-31-43-81 ec2-user]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
[root@ip-172-31-43-81 ec2-user]# docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
6e3729cf69e0: Pull complete
Digest: sha256:27cb6e6ccef575a4698b66f5de06c7ecd61589132d5a91d098f7f3f9285415a9
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
[root@ip-172-31-43-81 ec2-user]# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 6b7dfa7e8fdb 2 weeks ago 77.8MB
[root@ip-172-31-43-81 ec2-user]# docker pull redis
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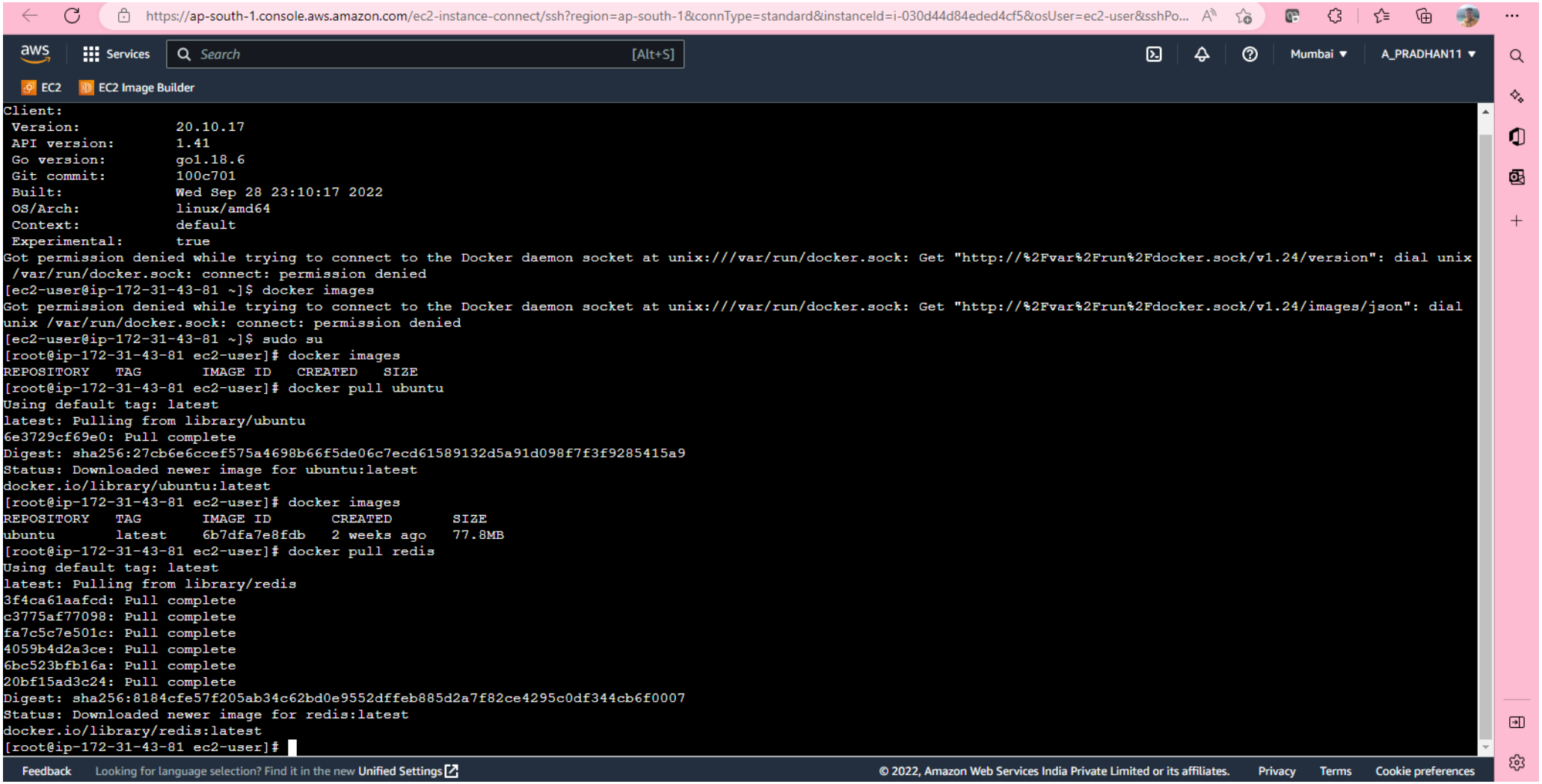
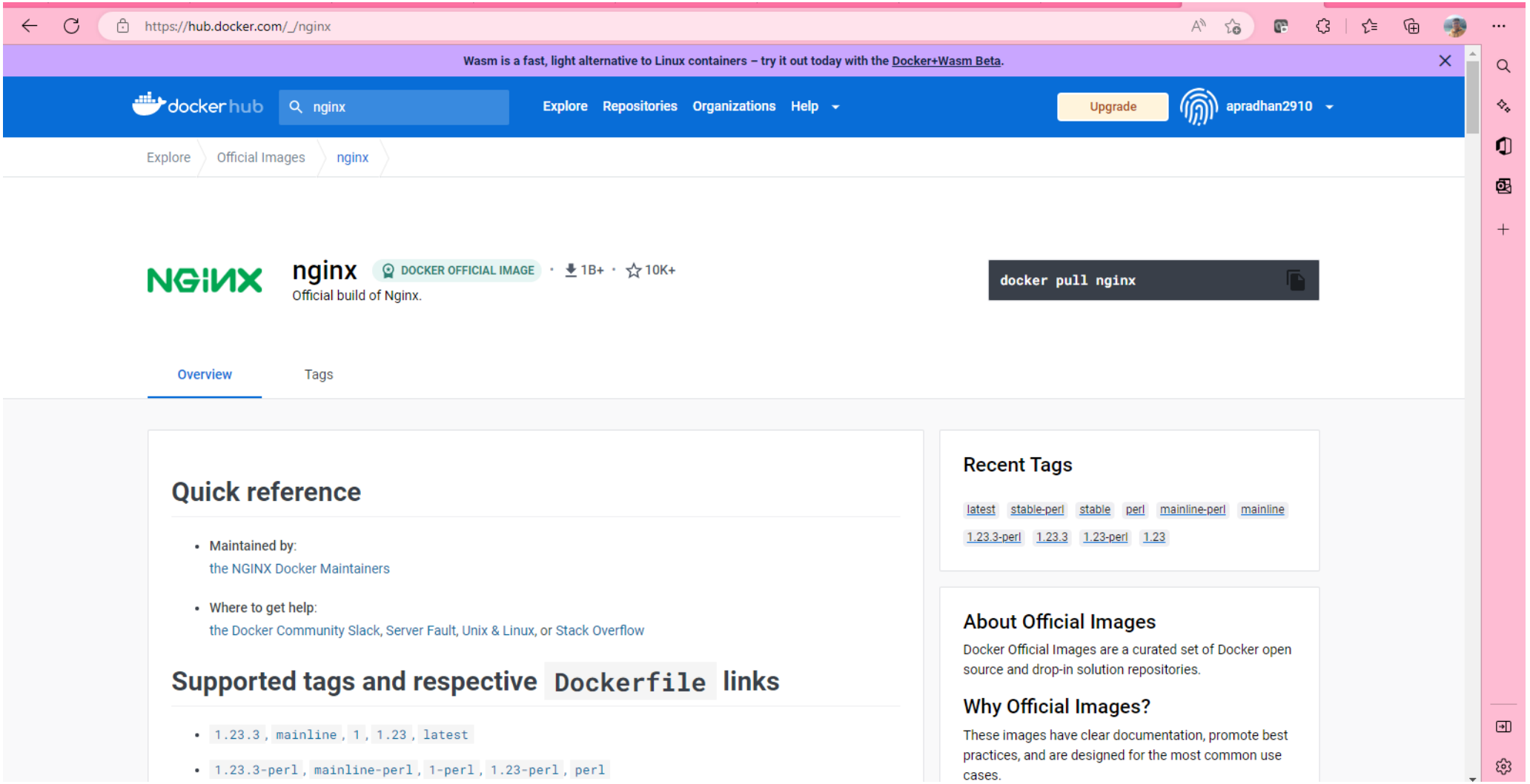
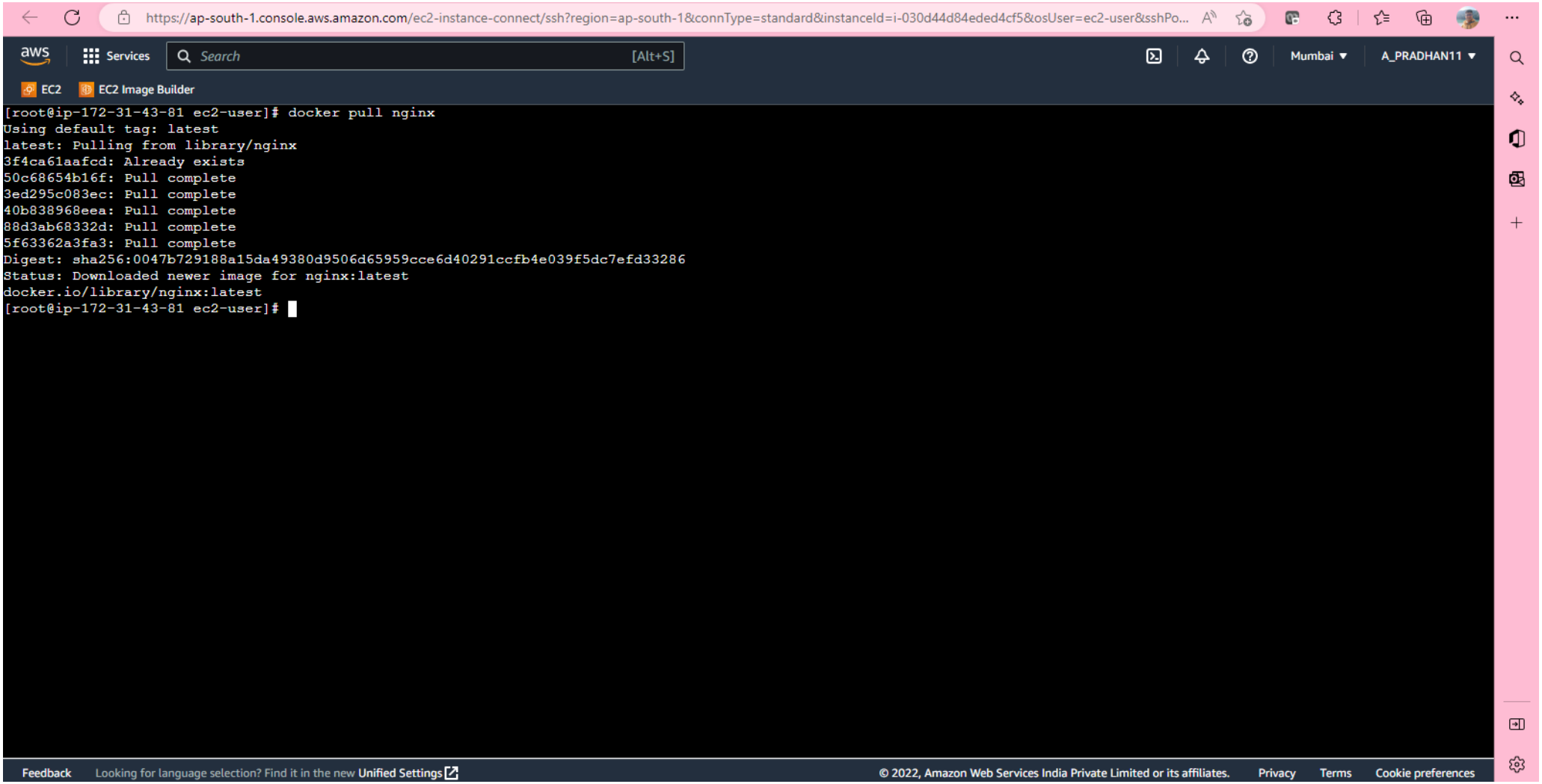
installing



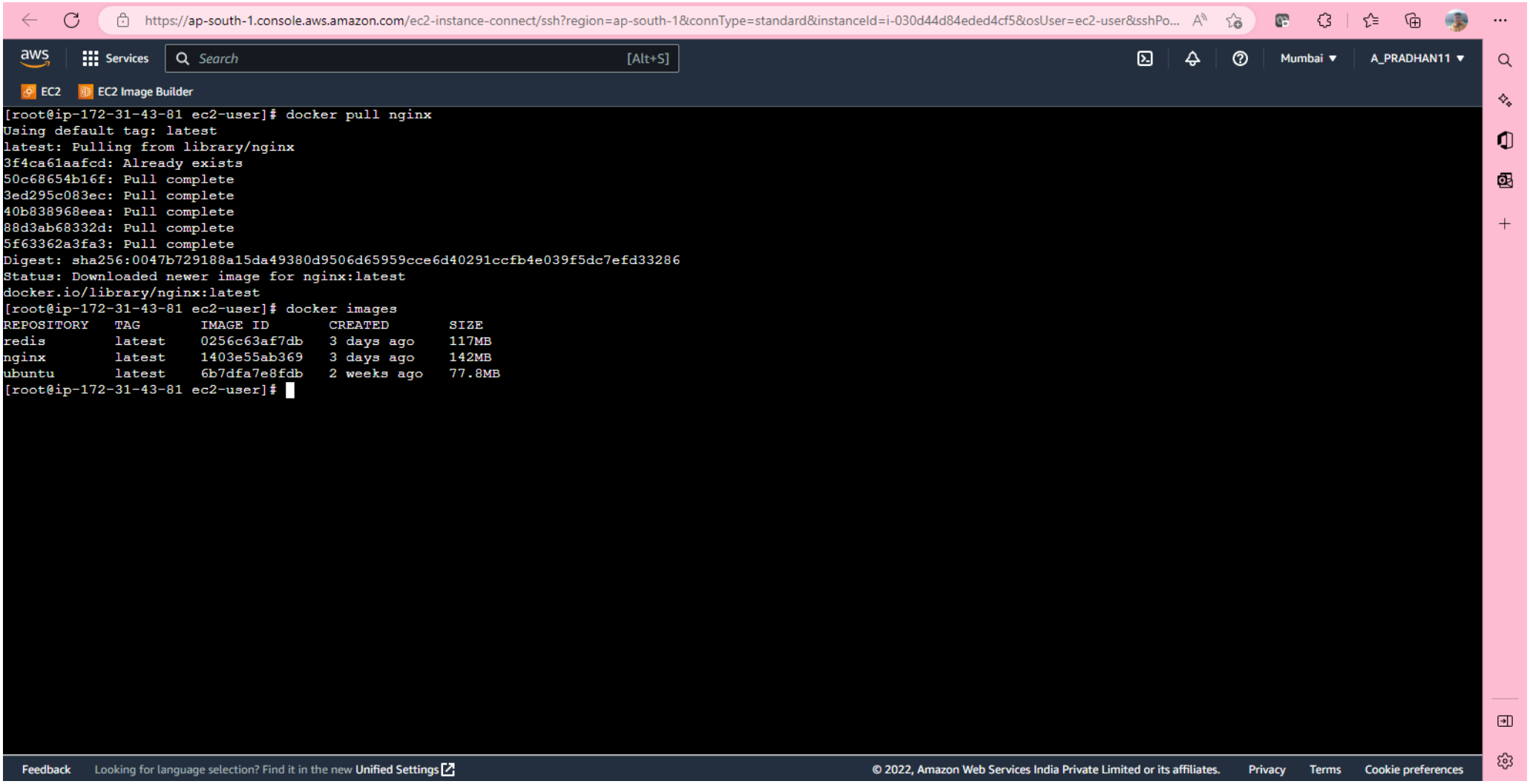
Now installing nginx



Nginx installed



Checking Images

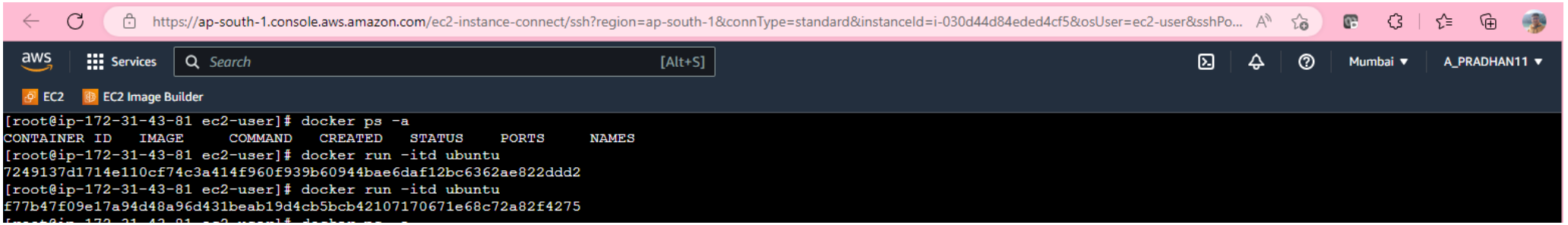


Thus, Ubuntu, redis and nginx all three images have installed inside container.

Now running ubuntu inside Container

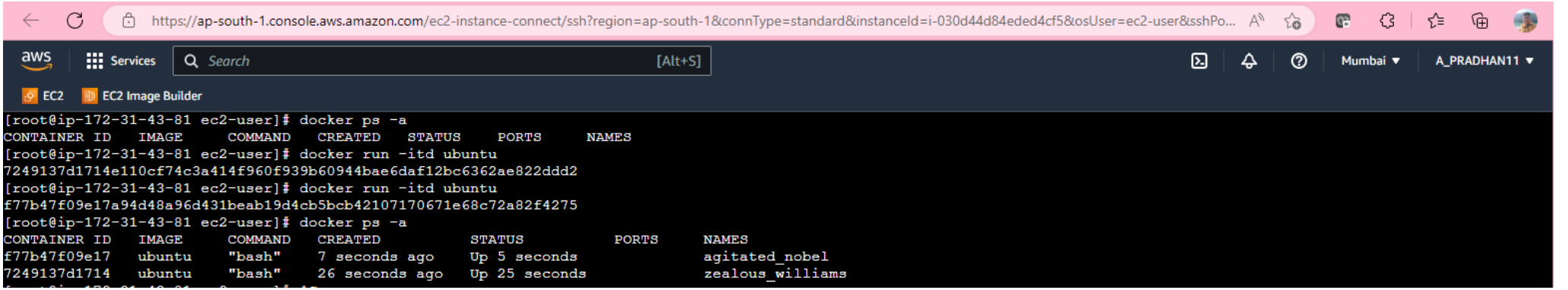
Commands

1) **docker run -itd ubuntu** (detached mode)

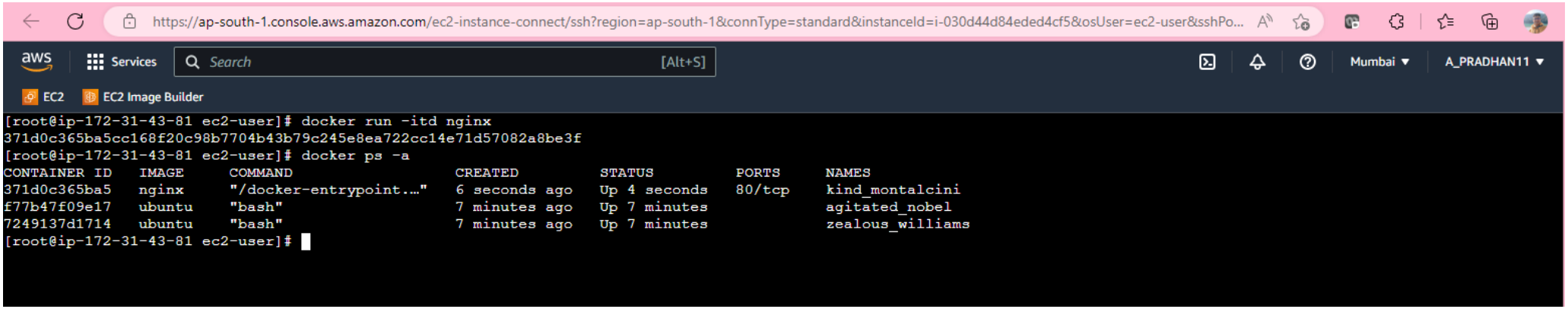


2) Now checking ubuntu status inside container

docker ps -a



Now running Nginx



Now all 3 images running inside the container.