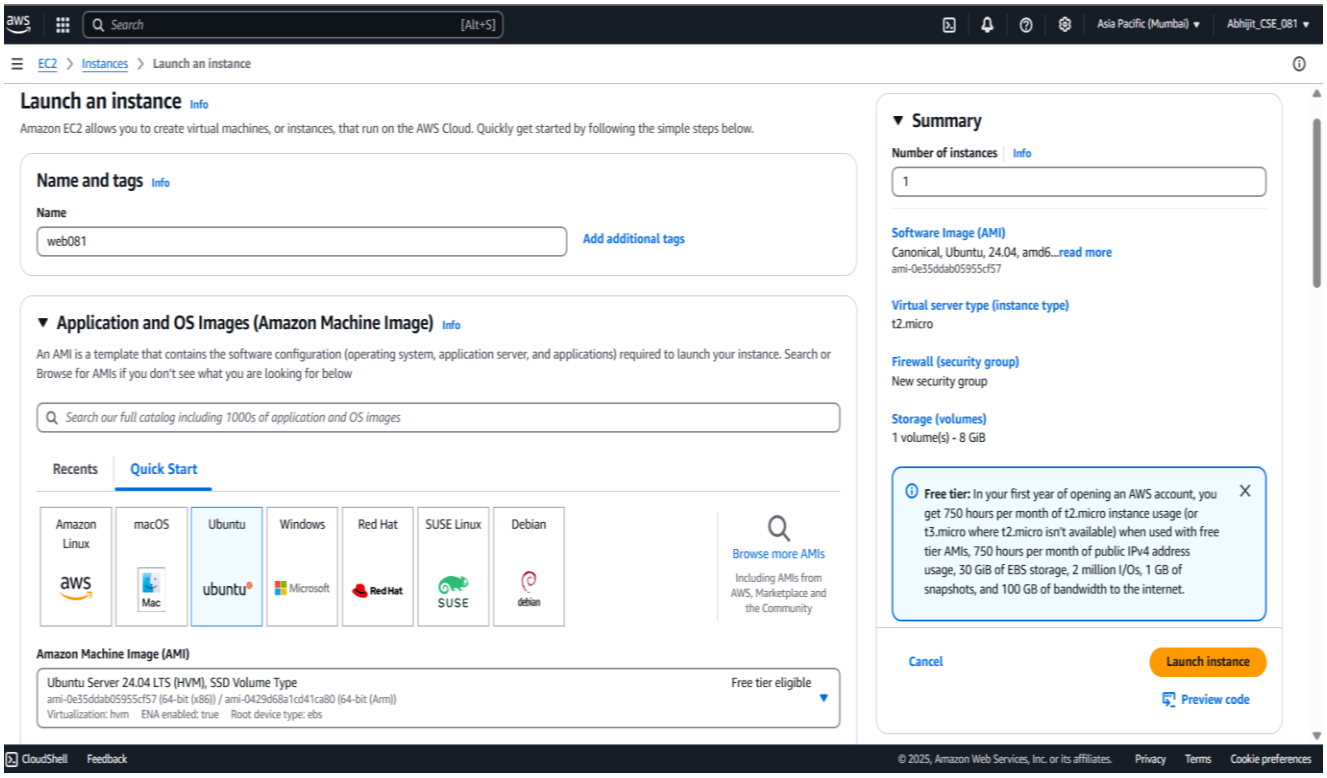
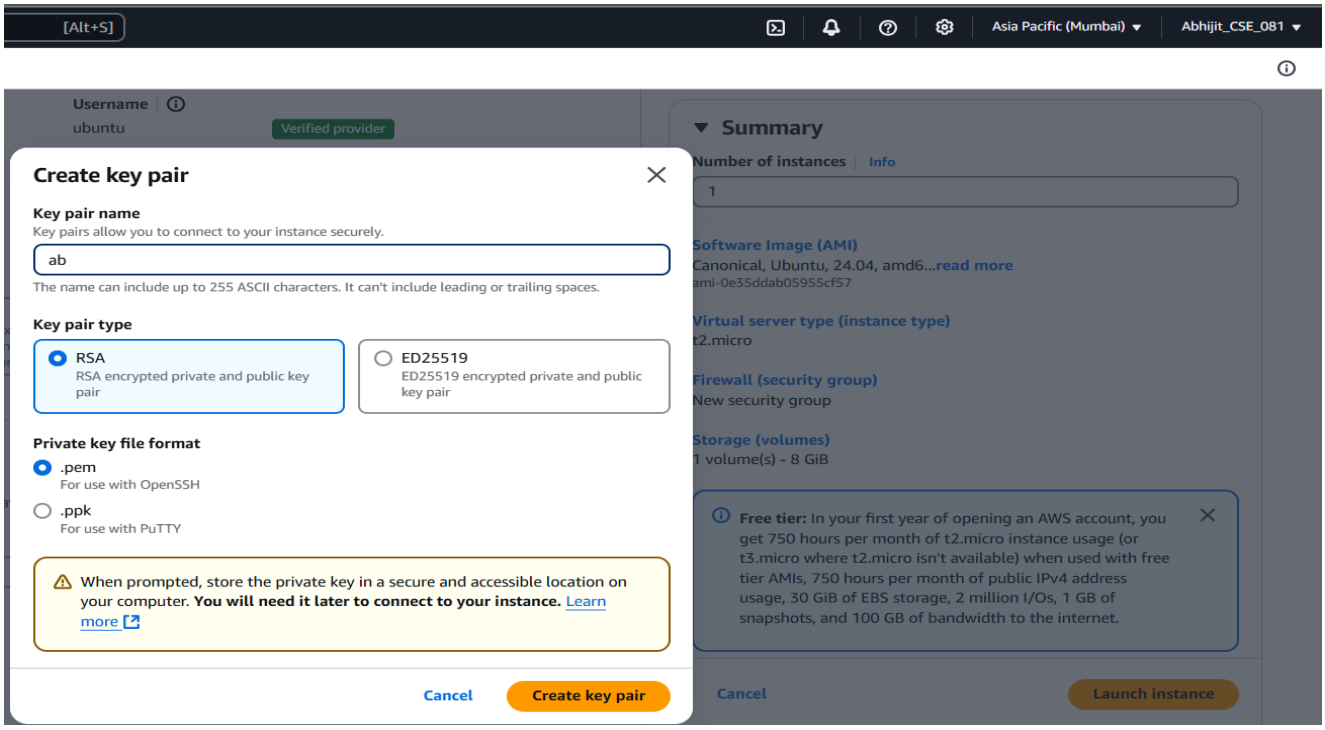
Assignment No: 7

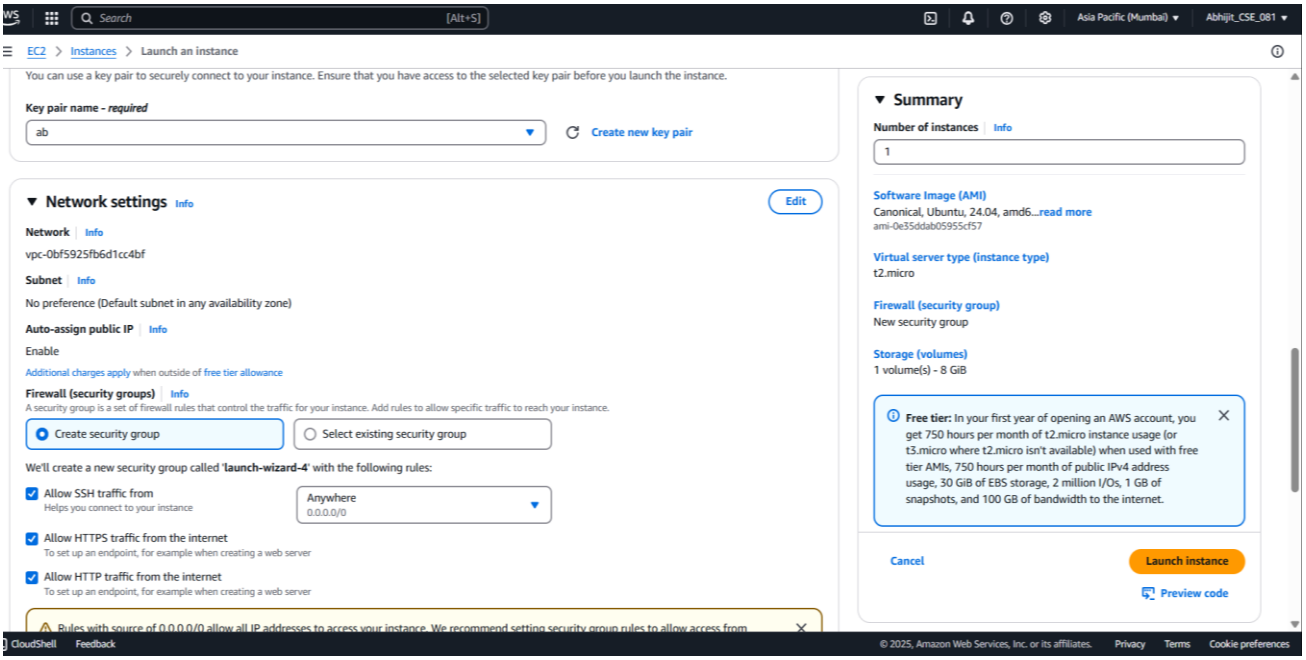
Hosting a website on EC2

Solution:

The steps to create and host a website on EC2 is shown as follows:



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EC2 > Instances > Launch an instance
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
ab
Create new key pair
Network settings Info
Edit
Network Info
vpc-0bf5925fb6d1cc4bf
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
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-4' 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
Summary
Number of instances Info
1
Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...read more
ami-0e35ddab05955cf57
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 of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.
Cancel
Launch instance
Preview code
CloudShell
Feedback
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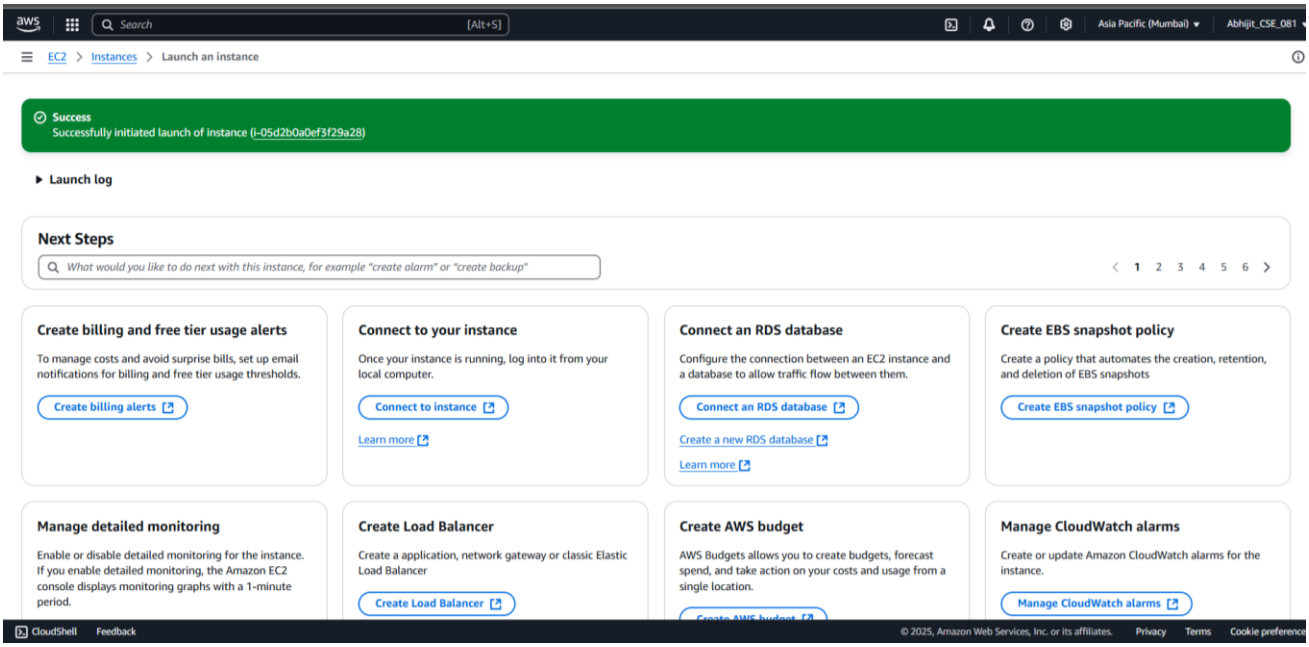
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EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-05d2b0a0ef3f29a28)
Launch log
Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"
1 2 3 4 5 6
Create billing 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
Manage detailed monitoring
Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period.
Create Load Balancer
Create a application, network gateway or classic Elastic Load Balancer
Create Load Balancer
Create AWS budget
AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.
Manage CloudWatch alarms
Create or update Amazon CloudWatch alarms for the instance.
Manage CloudWatch alarms
CloudShell
Feedback
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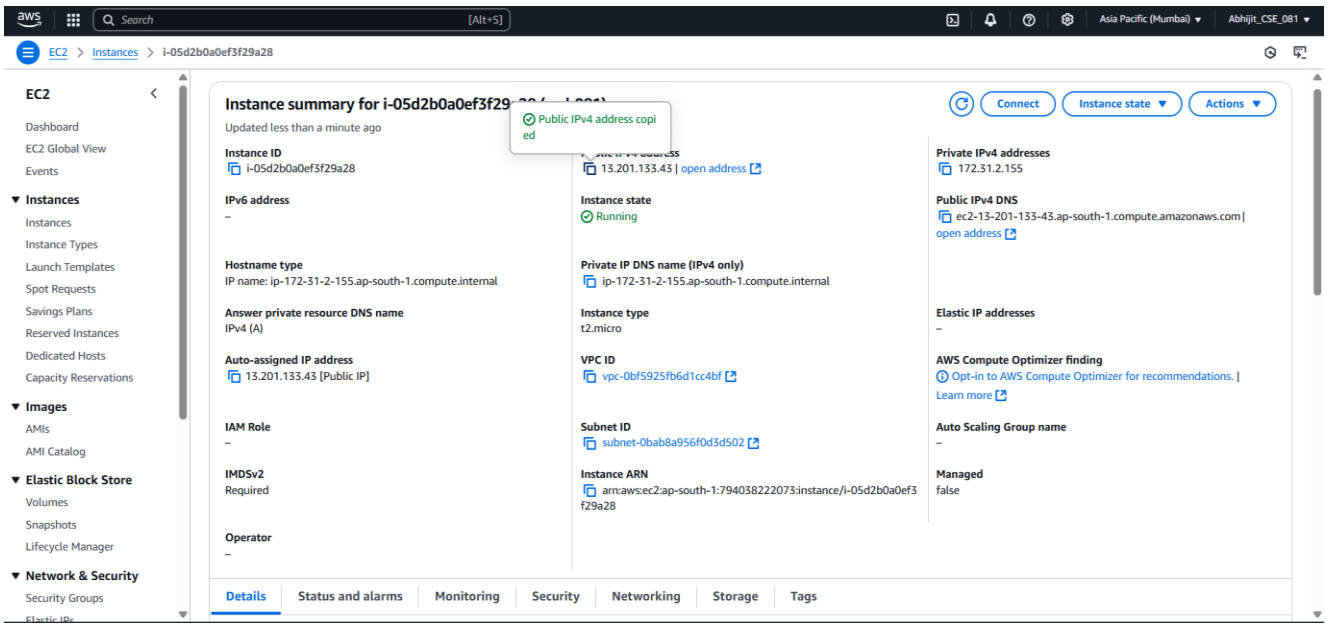
Search [Alt+S]
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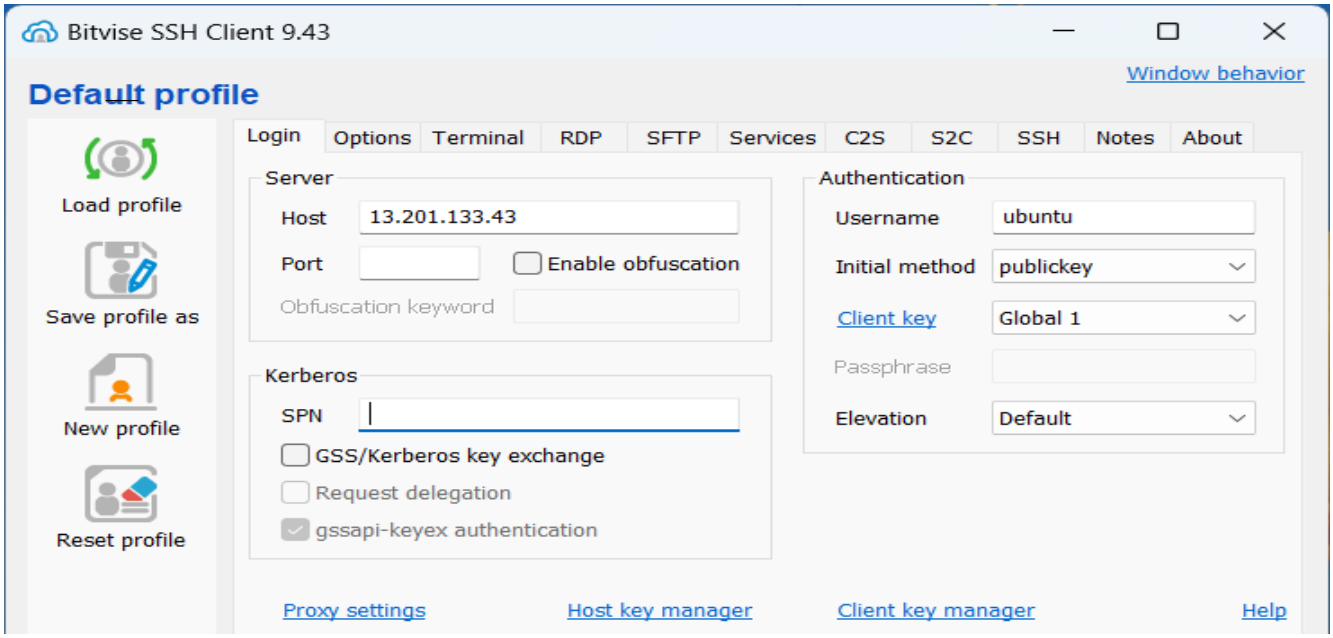
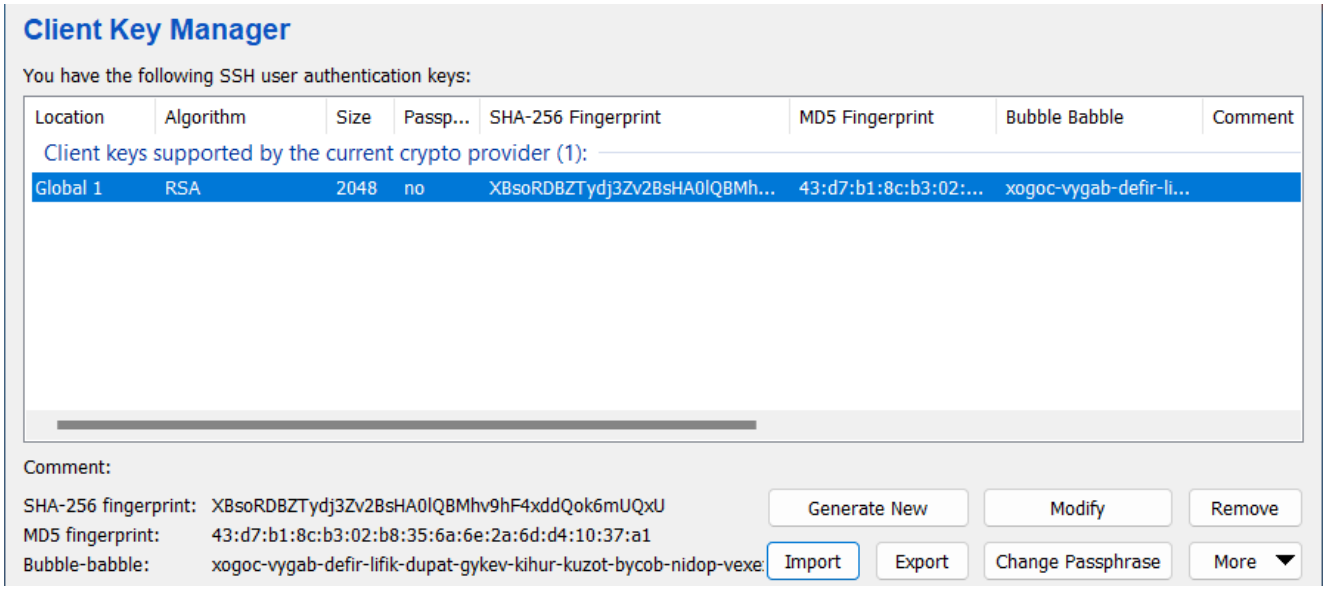
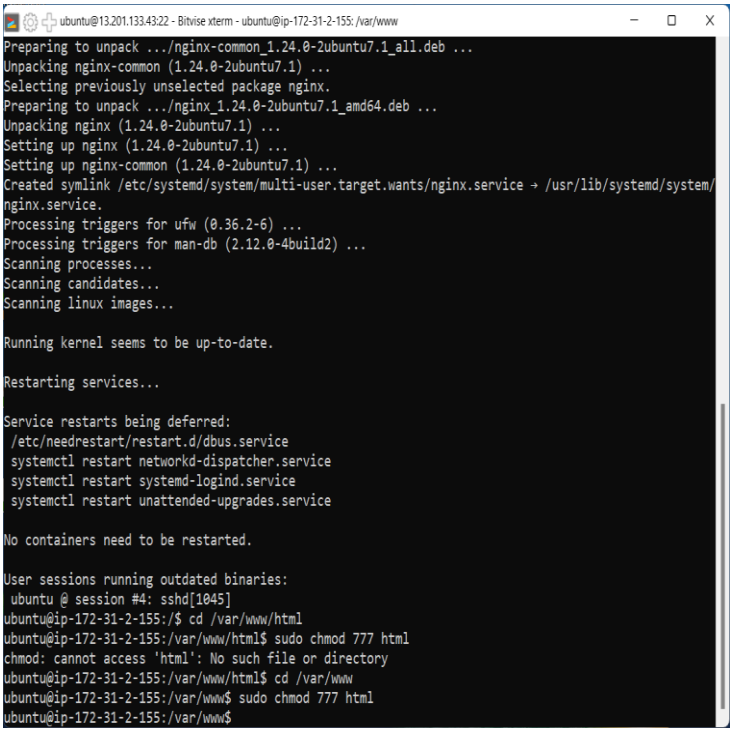
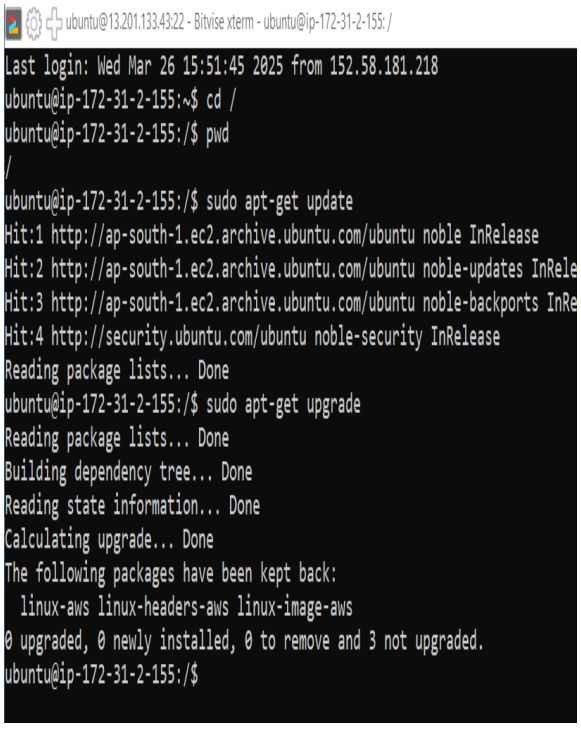
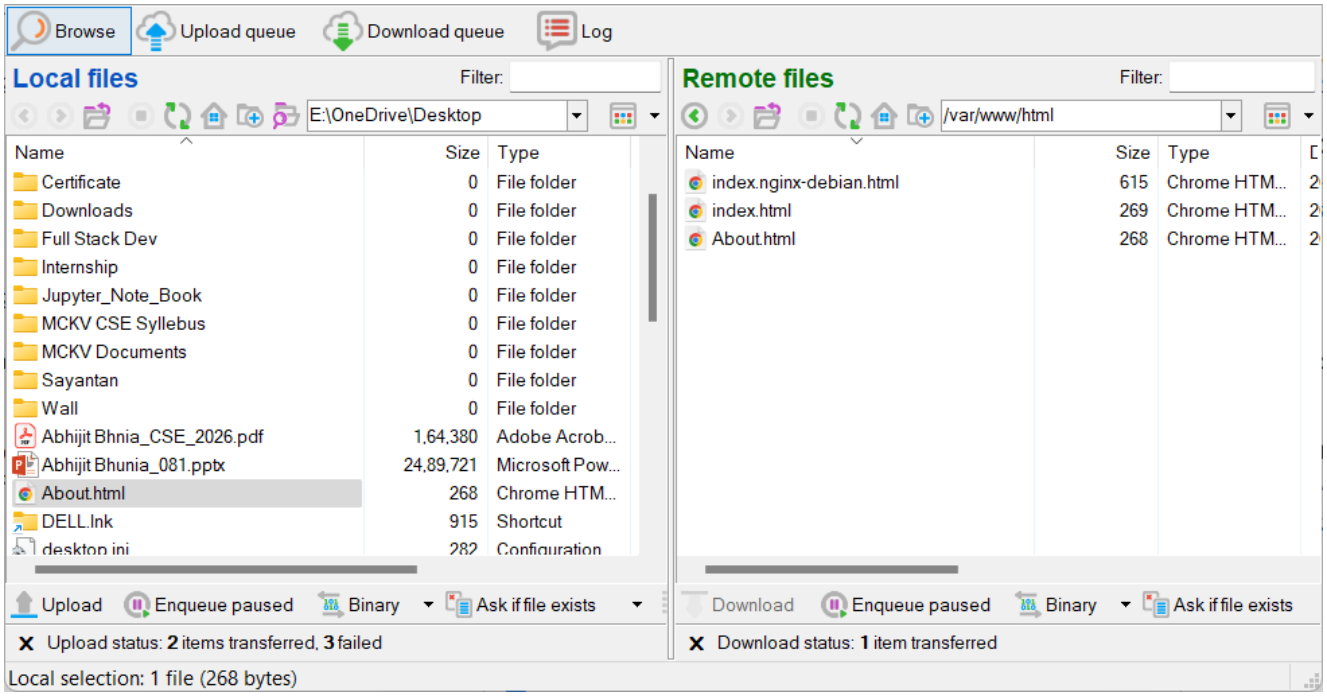
EC2 > Instances > i-05d2b0a0ef3f29a28
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Instance summary for i-05d2b0a0ef3f29
Updated less than a minute ago
Public IPv4 address copied
Connect
Instance state
Actions
Instance ID
i-05d2b0a0ef3f29a28
IPv6 address
–
Hostname type
IP name: ip-172-31-2-155.ap-south-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Auto-assigned IP address
13.201.133.43 [Public IP]
IAM Role
–
IMDSv2
Required
Operator
–
13.201.133.43 | open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-2-155.ap-south-1.compute.internal
Instance type
t2.micro
VPC ID
vpc-0bf5925fb6d1cc4bf
Subnet ID
subnet-0bab8a956f0d3d502
Instance ARN
arn:aws:ec2:ap-south-1:794038222073:instance/i-05d2b0a0ef3f29a28
Private IPv4 addresses
172.31.2.155
Public IPv4 DNS
ec2-13-201-133-43.ap-south-1.compute.amazonaws.com | open address
Elastic IP addresses
–
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
Auto Scaling Group name
–
Managed
false
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags


Bitvise SSH Client 9.43
Window behavior
Default profile
Load profile
Save profile as
New profile
Reset profile
Login
Options
Terminal
RDP
SFTP
Services
C2S
S2C
SSH
Notes
About
Server
Host
13.201.133.43
Port
Enable obfuscation
Obfuscation keyword
Kerberos
SPN
GSS/Kerberos key exchange
Request delegation
gssapi-keyex authentication
Authentication
Username
ubuntu
Initial method
publickey
Client key
Global 1
Passphrase
Elevation
Default
Proxy settings
Host key manager
Client key manager
Help


Client Key Manager
You have the following SSH user authentication keys:
Location
Algorithm
Size
Passp...
SHA-256 Fingerprint
MD5 Fingerprint
Bubble Babble
Comment
Client keys supported by the current crypto provider (1):
Global 1
RSA
2048
no
XBsoRDBZTydj3Zv2BsHA0lQBMh...
43:d7:b1:8c:b3:02:...
xogoc-vygab-defir-li...
Comment:
SHA-256 fingerprint:
XBsoRDBZTydj3Zv2BsHA0lQBMhv9hF4xddQok6mUQxU
MD5 fingerprint:
43:d7:b1:8c:b3:02:b8:35:6a:6e:2a:6d:d4:10:37:a1
Bubble-babble:
xogoc-vygab-defir-lifik-dupat-gykev-kihur-kuzot-bycob-nidop-vexe
Generate New
Modify
Remove
Import
Export
Change Passphrase
More


ubuntu@13.201.133.43:22 - Bitvise xterm - ubuntu@ip-172-31-2-155: /var/www
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.1_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.1) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.1_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx-common (1.24.0-2ubuntu7.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...
Running kernel seems to be up-to-date.
Restarting services...
Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service
No containers need to be restarted.
User sessions running outdated binaries:
ubuntu @ session #4: sshd[1045]
ubuntu@ip-172-31-2-155:/$ cd /var/www/html
ubuntu@ip-172-31-2-155:/var/www/html$ sudo chmod 777 html
chmod: cannot access 'html': No such file or directory
ubuntu@ip-172-31-2-155:/var/www/html$ cd /var/www
ubuntu@ip-172-31-2-155:/var/www$ sudo chmod 777 html
ubuntu@ip-172-31-2-155:/var/www$


ubuntu@13.201.133.43:22 - Bitvise xterm - ubuntu@ip-172-31-2-155: /
Last login: Wed Mar 26 15:51:45 2025 from 152.58.181.218
ubuntu@ip-172-31-2-155:~$ cd /
ubuntu@ip-172-31-2-155:/$ pwd
/
ubuntu@ip-172-31-2-155:/$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRele
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRe
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
ubuntu@ip-172-31-2-155:/$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages have been kept back:
linux-aws linux-headers-aws linux-image-aws
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
ubuntu@ip-172-31-2-155:/$



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