

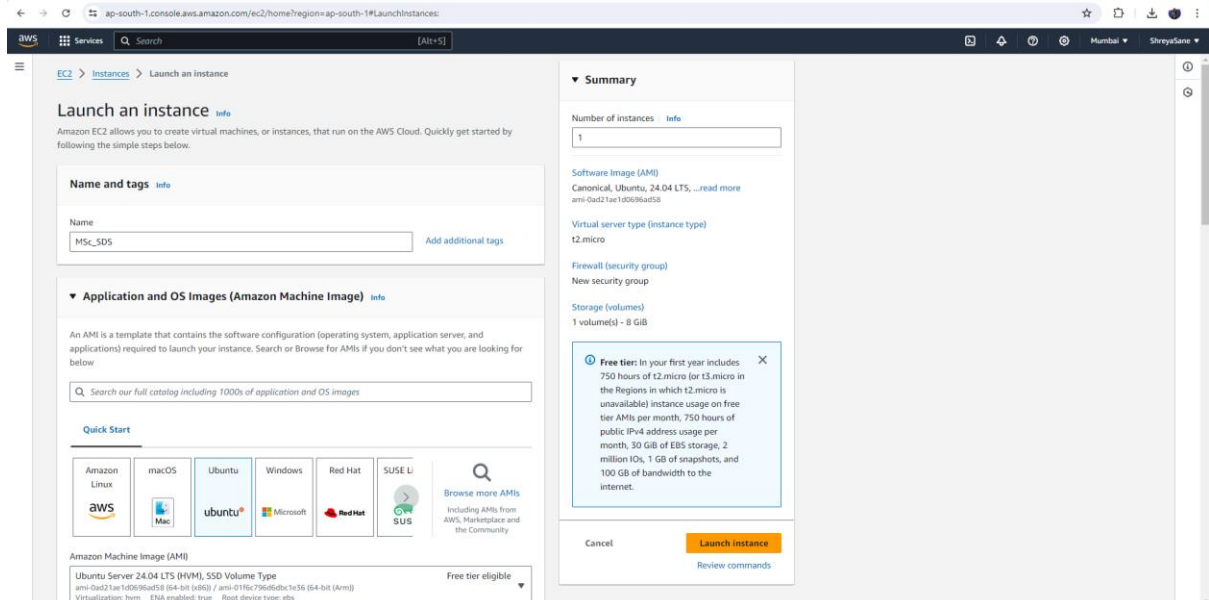
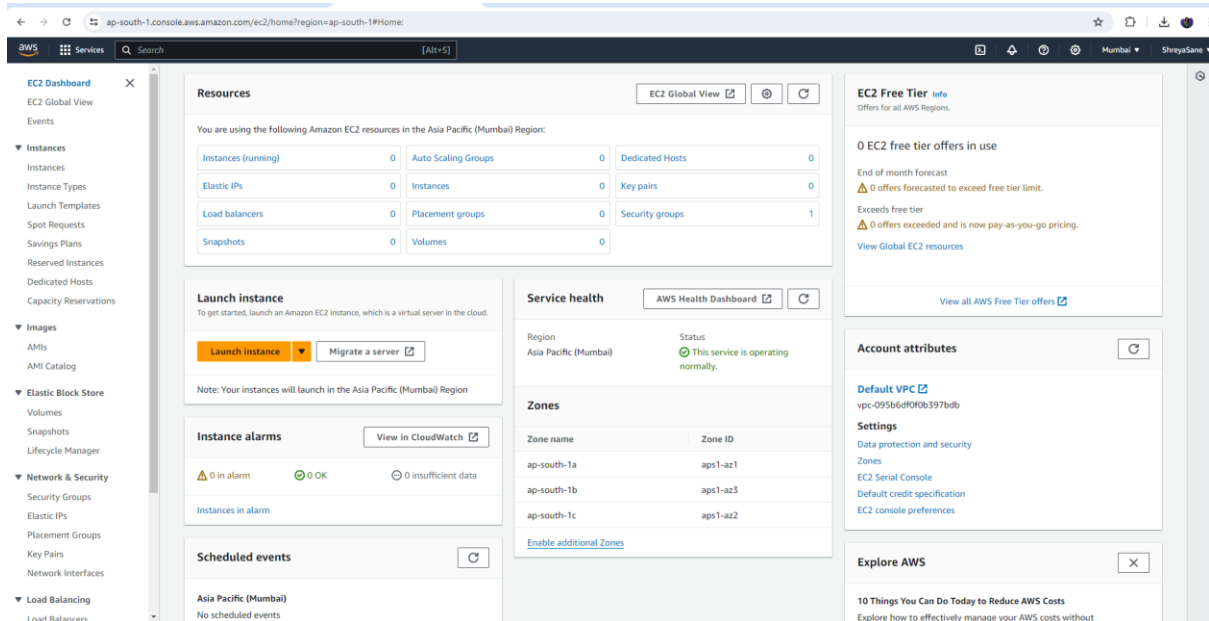
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Cloud Computing Practical 1

Practical-1 Infrastructure as a service using AWS.

#creating an ubuntu instance

Step 1 :Creating (Launching)an instance and creating a key pair for the same .



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

Services Search [Alt+S]

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](#)

Network [info](#)
vpc-095b6d0f0b397bdb

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-1' with the following rules:

☒ Allow SSH traffic from [info](#)
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.

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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 t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GB of bandwidth to the internet.

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

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

Services Search [Alt+S]

Key pair name - required
Select

Network settings [info](#) [Edit](#)

Network [info](#)
vpc-095b6d0f0b397bdb

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No preference (Default subnet in any availability zone)

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Select an existing key pair or create a key pair

☒ Create new key pair ☐ Proceed without key pair

Key pair name
Key pairs allow you to connect to your instance securely.
cloudcomputing_day1
The name can include up to 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

Private key file format
☒ .pem
For use with OpenSSH
☐ .ppk
For use with PuTTY

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](#)

[Cancel](#) [Launch instance](#)

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ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#instances:instanceId=i-085bb62480dde3a81:sort=instanceState

Services Search [Alt+S]

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
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

▼ Load Balancing

Load Balancers

Instances (1) info

Find instance by attribute or tag (case-sensitive)

Instance ID Clear filters

All states

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	M5c_SDS	i-085bb62480dde3a81	Running	t2.micro	Initializing	View alarms +	ap-south-1a	ec2-65-2-185-144.ap-s...	65.2.183.144	-

Select an instance

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Manage AWS Resources - AWS | Launch an instance | EC2 | us-east-1 | Launch an instance | EC2 | ap-south-1 | Connect to instance | EC2 | ap-south-1 | EC2 Instance Connect | us-east-1 | Verify your identity - shreya.sane | 25 basic Ubuntu Commands

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-085bb62480dde3a81

EC2 > Instances > i-085bb62480dde3a81 > Connect to instance

Connect to instance info

Connect to your instance i-085bb62480dde3a81 (M5c_SDS) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID
i-085bb62480dde3a81 (M5c_SDS)

Connection Type

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

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

Public IP address
65.2.183.144

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.

Cancel Connect

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The screenshot displays the AWS Management Console for an EC2 instance. The instance is named 'i-085bb62480dde3a81 (MSc_SDS)' and is in the 'Running' state. It is located in the 'ap-south-1' region. The console shows various tabs like Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. The instance is located in the 'ap-south-1' region.

Instance ID	Public IPv4 address	Private IPv4 addresses
i-085bb62480dde3a81 (MSc_SDS)	65.2.183.144 open address	172.31.44.47

Instance state	Private IP DNS name (IPv4 only)	Public IPv4 DNS
Running	ip-172-31-44-47.ap-south-1.compute.internal	ec2-65-2-183-144.ap-south-1.compute.amazonaws.com open address

Instance type	VPC ID	Subnet ID
t2.micro	vpc-095b6d9f0b5397b0b	subnet-0c60e84f02991cd99

Instance type	Subnet ID	Instance ARN
t2.micro	subnet-0c60e84f02991cd99	arn:aws:ec2:ap-south-1:1891376932046:instance/i-085bb62480dde3a81

Platform	AMI ID	Monitoring
Ubuntu (Inferred)	ami-0ad21ae1d0696ad58	disabled

Platform details	AMI name	Termination protection
Linux/UNIX	ubuntu/images/hvm-ssd-gp3/ubuntu-noble-24.04-amd64-server-20240701.1	Disabled

Stop protection	Launch time	AMI location
Disabled	Sat Jul 20 2024 15:21:17 GMT+0530 (India Standard Time) (3 minutes)	amazon/ubuntu/images/hvm-ssd-gp3/ubuntu-noble-24.04-amd64-server-

#performing the commands on ubuntu platform .

The screenshot displays the AWS Management Console for an EC2 instance. The instance is named 'i-085bb62480dde3a81 (MSc_SDS)' and is in the 'Running' state. It is located in the 'ap-south-1' region. The console shows various tabs like Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. The instance is located in the 'ap-south-1' region.

```
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

The list of available updates is more than a week old.
to check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-44-47:~$ date
Sat Jul 20 09:54:07 UTC 2024
ubuntu@ip-172-31-44-47:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-44-47:~$ mkdir new_shreya
ubuntu@ip-172-31-44-47:~$ cd new_shreya
ubuntu@ip-172-31-44-47:~/new_shreya$ rm new_shreya
rm: cannot remove 'new_shreya': No such file or directory
ubuntu@ip-172-31-44-47:~/new_shreya$ touch empty_file
ubuntu@ip-172-31-44-47:~/new_shreya$ auto apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [265 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
```