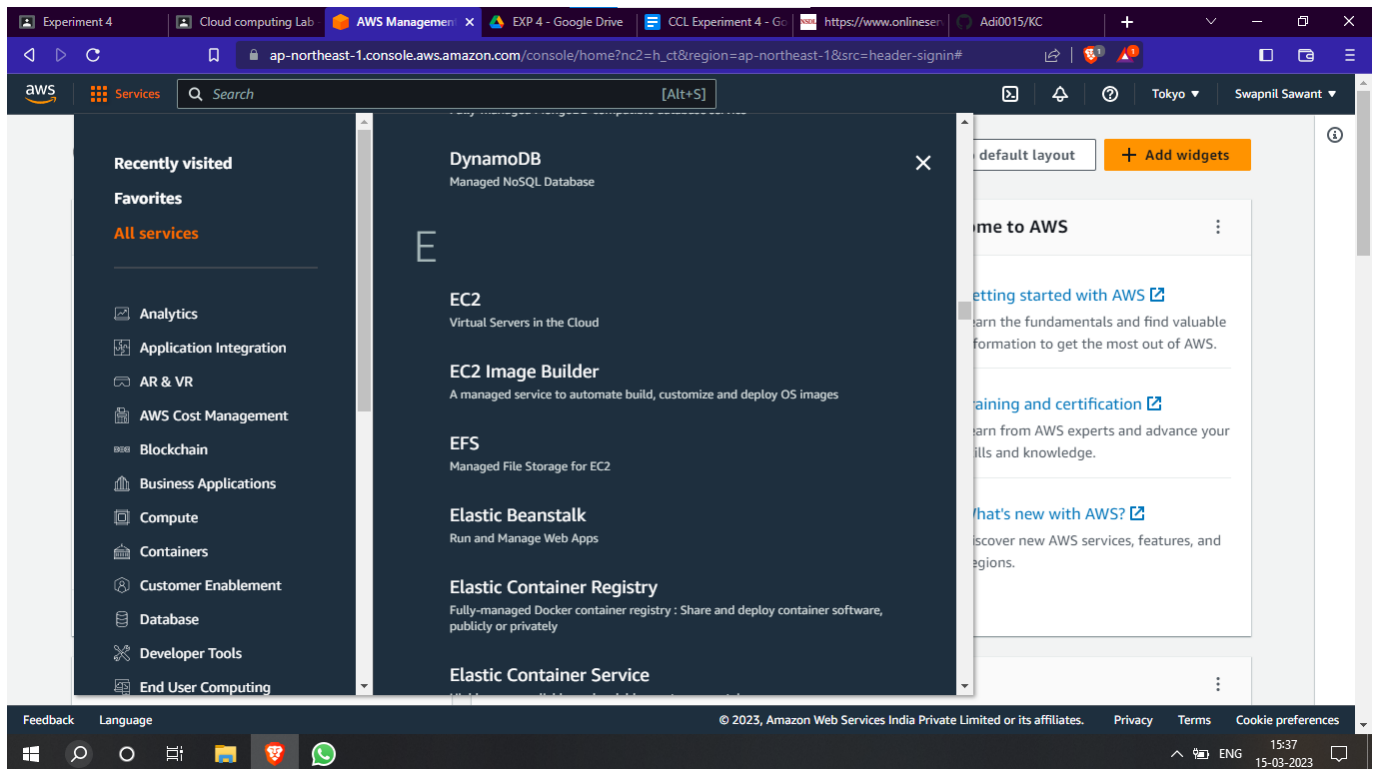


Name : Swapnil Sawant
Division : TE4
Roll No : 46
Batch : C
Subject : CCL

EXPERIMENT NO 4

Aim : To study and implement infrastructure as a Service using AWS compute service.

Diagram :



Experiment 4 Cloud computing Lab Launch an instance EXP 4 - Google Drive CCL Experiment 4 - Go https://www.onlineser Ad0015/KC

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

aws Services Search [Alt+S] Tokyo Swapnil Sawant

Name and tags Info

Name

Swapnil WebServer 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

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S

Amazon Machine Image (AMI)

Microsoft Windows Server 2022 Base Free tier eligible

Summary

Number of instances Info

1

Software Image (AMI)

Microsoft Windows Server 2022 ...read more
ami-0500753a8b9c3c925

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 30 GiB

Free tier: In your first year includes 750 X

Cancel Launch Instance

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

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Instance type Info

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory

On-Demand Windows pricing: 0.0198 USD per Hour

On-Demand SUSE pricing: 0.0152 USD per Hour

On-Demand RHEL pricing: 0.0752 USD per Hour

On-Demand Linux pricing: 0.0152 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

ccl_keypair Create new key pair

For Windows instances, you use a key pair to decrypt the administrator password. You then use the decrypted password to connect to your instance.

Network settings Info Edit

Summary

Number of instances Info

1

Software Image (AMI)

Microsoft Windows Server 2022 ...read more
ami-0500753a8b9c3c925

Virtual server type (instance type)

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Cancel Launch Instance

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

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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 30 GiB gp2 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

0 x File systems Edit

► Advanced details Info

▼ Summary

Number of instances Info 1

Software Image (AMI) Microsoft Windows Server 2022 ...read more ami-0500753a8b9c3c925

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 30 GiB

Free tier: In your first year includes 750

Cancel Launch instance

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15:42 15-03-2023

Experiment 4 Cloud computing Lab Launch an instance x EXP 4 - Google Drive CCL Experiment 4 - Go https://www.onlineser Ad0015/KC

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

aws Services Search [Alt+S] Tokyo Swapnil Sawant

EC2 > Instances > Launch an instance

Success Successfully initiated launch of instance (i-0fa9b4dd7207f2ac7)

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

https://ap-northeast-1.console.aws.amazon.com/ec2/home?region=ap-northeast-1#ConnectToInstanceinstanceId=i-0fa9b4dd7207f2ac7 © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

15:42 15-03-2023

Experiment 4 Cloud computing Launch an instance Connect to x EXP 4 - Google CCL Experiment https://www.ori Ad0015/KC ccl Expt2 - swa

ap-northeast-1.console.aws.amazon.com/ec2/home?region=ap-northeast-1#ConnectToInstance:instanceId=i-0fa9b4dd7207f2ac7

aws Services Search [Alt+S] Tokyo Swapnil Sawant

Connect to instance info

Connect to your instance i-0fa9b4dd7207f2ac7 (Swapnil WebServer) using any of these options

Session Manager RDP client EC2 serial console

Instance ID
i-0fa9b4dd7207f2ac7 (Swapnil WebServer)

Connection Type

- ☒ Connect using RDP client
Download a file to use with your RDP client and retrieve your password.
- ☐ Connect using Fleet Manager
To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

Download remote desktop file

When prompted, connect to your instance using the following details:

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ccl_keypair.pem Swapnil WebServer.rdp Show all

Windows taskbar: 15:45 15-03-2023

Experiment 4 Cloud computing Launch an instance Get window x EXP 4 - Google CCL Experiment https://www.ori Ad0015/KC ccl Expt2 - swa

ap-northeast-1.console.aws.amazon.com/ec2/home?region=ap-northeast-1#GetWindowsPassword:instanceId=i-0fa9b4dd7207f2ac7

aws Services Search [Alt+S] Tokyo Swapnil Sawant

Use your private key to retrieve and decrypt the initial Windows administrator password for this instance.

Instance ID
i-0fa9b4dd7207f2ac7 (Swapnil WebServer)

Key pair associated with this instance
ccl_keypair

Private key
Either upload your private key file or copy and paste its contents into the field below.

Upload private key file

cc_l_keypair.pem
1.678KB

Private key contents - optional

```
-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAu9gyH4c79TE74Hpnaz4Ck71jwaFA31P/XlCOXmrW/IP5yR4M
GMtKNXVtmMpq5i8WZvpgrUqggICaBD304wnt+MFDTr+jMTbemRPJ4BN4YUwjx+72
bAwQ5CwpGI+PTHsgzluCFAkuDPoN/v+gxEl0f4AbAdVcqD3tjOp3m39waSB8cfW
o5xw2MpWqXXVs5tpZBu1Olxoi+cVPn9FNhxeSfhh5Wilm882gkVHidI96+0ZwSCE
18XpEZ+eie4WHsg4Szv699s3+6sSnTRYuZiYTDbs4s4UaL7GXsbvhD1hWqLx2J8
v+xm9BWFfMojR8hnJ0dUXnMXaYU///Y7wbVQwIDAQABAoIBAQC5Ve9eTmzwK6W4
z8Kncgxx6dW/745pLLe/7lrMTEsUOgTVhuyCRTLpqp1oCM9JSuvL5gfCacXdjGh
-----
```

Cancel Decrypt password

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Windows taskbar: 16:00 15-03-2023

Recycle Bin

EC2 Feedback

EC2 Micros...

Hostname : EC2AMAZ-4H4P7PM
Instance ID : i-0fa9b4dd7207f2ac7
Private IP Address : 172.31.12.159
Public IP Address : 18.183.195.239
Instance Size : t2.micro
Availability Zone : ap-northeast-1c
Architecture : AMD64
Total Memory : 1024
Network : Low to Moderate

Type here to search

Experiment 4 Cloud computing Launch an instance Instances | EC2 x EXP 4 - Google Dr CCL Experiment 4 https://www.online Ad0015/KC

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

Services Search [Alt+S] Tokyo Swapnil Sawant

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

Instances (1) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Swapnil WebS...	i-0fa9b4dd7207f2ac7	Running	t2.micro	2/2 checks passed	No alarms	ap-northeast-1c

Select an instance

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1602 15-03-2023

Conclusion : Hence we have studied the Infrastructure as Service using AWS EC2 Service and Implemented the running virtual Instance of the machine.