

University Institute of Engineering Department of Computer Science & Engineering

Experiment: 3.2

Name:

UID:

Class & Group:

Sem: 1st



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DISCUSSION:

Aim of the practical:

Launching EC2 instance.

1. Tool Used:

AWS (AMAZON WEB SERVICES)

2. Basic Concept/ Command Description:

Amazon Web Services (AWS) is a cloud service from Amazon, which provides services in the form of building blocks, these building blocks can be used to create and deploy any type of application in the cloud.

These services or building blocks are designed to work with each other, and result in applications that are sophisticated and highly scalable

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Get started with simple wizards and automated workflows.

Launch a virtual machine
With EC2
2-3 minutes

Build a web app
With Elastic Beanstalk
6 minutes

Build using virtual servers
With Lightsail
1-2 minutes

Register a domain
With Route 53
3 minutes

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

- Windows** **Free tier eligible**
Microsoft Windows Server 2019 Base - ami-0c95aae83dc5a60ac
Microsoft Windows 2019 Datacenter edition. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Windows** **Free tier eligible**
Microsoft Windows Server 2019 Base with Containers - ami-0ba02e7ab1c9dd052
Microsoft Windows 2019 Datacenter edition with Containers. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Windows**
Microsoft Windows Server 2019 with SQL Server 2017 Standard - ami-078e261631f44790c
Microsoft Windows 2019 Datacenter edition, Microsoft SQL Server 2017 Standard. [English]
Root device type: ebs Virtualization type: hvm ENA Enabled: Yes
- Windows**
Microsoft Windows Server 2019 with SQL Server 2019 Standard - ami-0075363c4e9046a7d
Microsoft Windows 2019 Datacenter edition, Microsoft SQL Server 2019 Standard. [English]

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EC2 > Instances > i-022e9653a6f6c8146 > Connect to instance

Connect to instance Info

Connect to your instance i-022e9653a6f6c8146 using any of these options

Session Manager **RDP client** EC2 Serial Console

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:

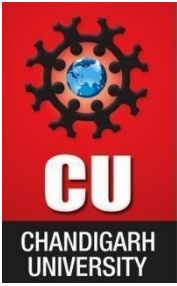
[Download remote desktop file](#)

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

Public DNS	User name
ec2-18-190-159-110.us-east-2.compute.amazonaws.com	Administrator
Password	
Password copied	down@kXvt3W!

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances ⓘ	Volumes ⓘ	Network Interfaces ⓘ
sample	today	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

Cancel Previous **Review and Launch** Next: Configure Se

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New EC2 Experience Tell us what you think

- EC2 Dashboard
- EC2 Global View
- Events
- Tags
- Limits
- Instances
 - Instances** New
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances New
 - Dedicated Hosts
 - Capacity Reservations
- Images
 - AMIs New

Instances (1) Info

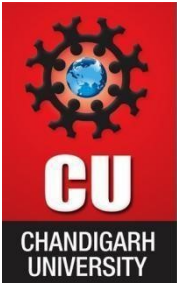
Connect Instance state Actions **Launch instance**

Search

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	-	i-022e9653a6f6c8146	Terminated	t2.micro	-	No alarms

Select an instance

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The screenshot shows the AWS Management Console interface. At the top, there is a navigation bar with the AWS logo, a search bar, and the text "[Alt+S]". Below the navigation bar, a green banner displays the message "Password Decryption Successful" and "The password for instance i-022e9653a6f6c8146 was successfully decrypted." Below this, the breadcrumb navigation shows "EC2 > Instances > i-022e9653a6f6c8146 > Connect to instance". The main content area is titled "Connect to instance" and includes an "Info" link. Below the title, there is a sub-header "Connect to your instance i-022e9653a6f6c8146 using any of these options" and three tabs: "Session Manager" (selected), "RDP client", and "EC2 Serial Console". A warning box with a red triangle icon contains the text "We weren't able to connect to your instance. Common reasons for this include:" followed by a list of three items: 1. SSM Agent isn't installed on the instance. You can install the agent on both Windows instances and Linux instances. 2. The required IAM instance profile isn't attached to the instance. You can attach a profile using AWS Systems Manager Quick Setup. 3. Session Manager setup is incomplete. For more information, see Session Manager Prerequisites. Below the warning box, there is a section titled "Session Manager usage:" with two bullet points: "Connect to your instance without SSH keys or a bastion host." and "Sessions are secured using an AWS Key Management Service key." At the bottom of the console, there is a footer with the URL "https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#" and copyright information "© 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Co".

Result:

C2 Instance launched successfully.

Evaluation Grid (To be filled by Faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes.(To be submitted at the end of the day)		10
2.	Post Lab Quiz Result.		5
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		5
	Signature of Faculty (with Date):	Total Marks Obtained:	20