CENTRE OF EXCELLENCE—







A BRIEF PROFILE ON.....

6/19/2024





AWS Academy courses – Bridging the gap between academia and industry.









Vision of Institute

The Center of Excellence for AWS Cloud is to provide students with the opportunity to improve their Cloud Technology skills and to prepare them for a variety of placement driven opportunities. Also, students who have strong command of the utilization of Cloud Services are better equipped to work on cutting-edge technologies such as artificial intelligence, machine learning, internet of things, and so on.

Mission of Institute

The mission of the institute is to educate young aspirants in various technical fields to fulfill global requirement of human resources by providing sustainable quality education, training and invigorating environment besides molding them into skilled competent and socially responsible citizens who will lead the building of a powerful nation.







INDEX

1.About the COE(AWS Academy)

2.Objectives

3. Advisory Board members/Active Member details

4. Coordinator details

5. MOU details

6. List of Equipments/Software details

7. List of Experiments/Contents delivered to Students

8. Roadmap

9.Outcome:-

i) List of AWS Certified Students

ii) List of Placed Students

10. Media Coverage





AWS



AWS is a cloud computing platform and an online portal that allows to access and manage cloud services and resources provided Amazon AWS. Amazon Web Services has been providing world-leading cloud technologies that help any organization and any individual build solutions to transform industries, communities, and lives for the better These services and resources include storing your data and transforming it, depending on your requirements. To get access to these resources and services, we need to have an active internet connection and the ability to connect to the Amazon AWS portal.





THINGS ABOUT AWS



- The genesis of AWS came in the early 2000s. After building Merchant.com, Amazon's e-commerce-as-a-service platform that offers third-party retailers a way to build their own web-stores, Amazon pursued service-oriented architecture as a means to scale its engineering operations, led by then <u>CTO</u> Allan Vermeulen.
- In July 2002 Amazon.com Web Services, managed by Colin Bryar, launched its first <u>web</u> services, opening up the Amazon.com platform to all developers. Over one hundred applications were built on top by 2004
- Jeff Barr, an early AWS employee, credits Vermeulen, Jassy, Bezos himself, and a few others for coming up with the idea that would evolve into <u>EC2</u>, <u>S3</u>, and <u>RDS</u>.
- In September 2007, AWS announced its annual Start-up Challenge, a contest with prizes worth \$100,000 for entrepreneurs and software developers based in the US using AWS services such as S3 and EC2 to build their businesses
- It's free to start and follows a pay-per-use model, which means you pay only for the services you opt for.
- Interestingly, 80 percent of the Fortune 1500 companies use AWS services for their cloud computing needs.
- AWS supported many programming languages, including Java, Node Js, and C#.

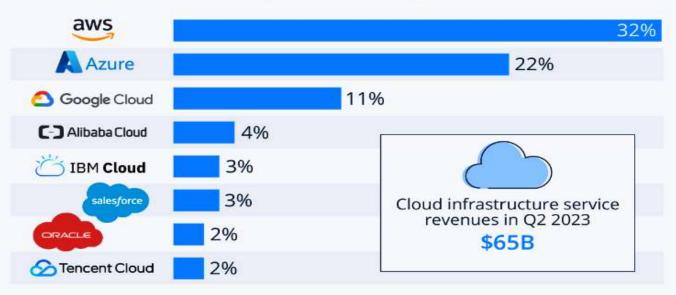
Another benefit of AWS is the number of Regions it has around the world. There are 33 Geographic Regions spread around the globe, which is the highest number of data centers for any cloud platform, with announced plans for 21 more Availability Zones and seven more AWS Regions in Malaysia, Mexico, New Zealand, the Kingdom of Saudi Arabia, Thailand, Taiwan, and the AWS European Sovereign Cloud





Amazon Maintains Lead in the Cloud Market

Worldwide market share of leading cloud infrastructure service providers in Q2 2023*



* Includes platform as a service (PaaS) and infrastructure as a service (IaaS) as well as hosted private cloud services









AWS Academy Cloud Foundations is intended for students who seek an overall understanding of cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, AWS core services, security, architecture, pricing, and support.

- Provide basic knowledge of AWS Academy Cloud Foundations to every CSE, IT and Non CSE/IT students.
- Provide high-quality training programs to students and educators.

Foster collaboration between academia and industry to design the contents of a course.

Promote the adoption of best practices and standards in AWS Academy Cloud Foundations. aws advisory board members/active members details



S.N o	Faculty	Designat ion	Contact No	Email ID	Certification
1	Mr. Jagbeer Singh	Assistant Professor	95281652 42	jagbeer.singh@miet.ac.in	AWS CP, AWS SAA, AZ- 900, AZAI,AZPL
2	Mr. Hemant Baranval	Assistant Professo r	98106423 98	hemant.branval@miet.ac.in	
3	Mrs. Preksha Pratap	Assistant Professo r	991731166 9	preksha.pratap@miet.ac.in	
4	Dr. Anamika Singh	Assistant Professo r	90052321 95	anamika.singh@miet.ac.in	AWS CP
5	Mrs. Himanshi Agarwal		910765024 3	himanshi.agarwal@miet.ac.i n	





CPOC/ EDUCATOR DETAILS

S.N o	Faculty	Designation	Contact No	Email ID	Certification
1	Mr. Jagbeer Singh	Assistant Professor	95281652 42	jagbeer.singh@miet.ac.in	AWS CP, AWS SAA, AZ- 900, AZAI,AZPL



MOU AWS INDIA TECH ALLIANCE

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AWS Skills to Jobs Tech Alliance Program Terms & Conditions

Last Updated January 19, 2024

AWS Contracting Party: Customer Name Institute of Ergineering & Technolog Amazon Web-Services India Private Limited ("you") ma 1 By: Byr: Name: Mayank Arora Name: Pune Title: Authorised Signatory Title: Signature Date: January 31, 2024 Address:

Block E, 14th Floor Unit Nos. 1401-1421. International Trade Tower, Nehru Place, New Delhi, India, 110019, India

Signature Date: 24/4/124 Address: MIET, Maent- 250005 Attention: Jighen Sigh Email Address: Jogheor. Singl Cantat at in

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This AWS Skills to Jobs Tech Alliance Program (the "Program") Agreement (this "Program Agreement") is entered into between you and the relevant AWS Contracting Party as defined. in the AWS Customer Agreement or other written agreement governing your use of the Services (the "AWS Agreement") ("AWS") (each, a "Party" and collectively, the "Parties"), and is effective as of the last signature date above. This Program Agreement is made a part of the AWS Agreement, as both may be updated from time to time. Capitalized terms used but not defined herein shall have the meanings set forth in the AWS Agreement. If there is a conflict between the AWS Agreement and this Program Agreement, this Program Agreement will prevail.

The AWS Agreement and this Program Agreement contain terms that govern your participation in the Program. By accepting the terms of this Program Agreement, you represent that: (1) you are lawfully able to enter into such agreements, and (2) if you are entering into this Program Agreement on behalf of an educational institution or entity ("Entity"), you have legal authority to bind that Entity.

. **Program Details**

AWS or its affiliates will provide advice and recommendations to you on any or all of the following topics: (i) modernizing your education program by incorporating cloud/other skills identified by both Parties; (ii) leadership development; (iii) faculty development; (iv) employer engagement; and (v) student career support. You acknowledge and agree that you will not share with AWS or its affiliates any personal data from student(s) or employee(s) under the Program.

The Parties acknowledge and agree that AWS or its affiliates will not deliver any trainings or courses directly to you, including any students, under the Program.

erut institute of Engineering & Technology

Director (Admn)





LIST OF EQUIPMENTS/SOFTWARE DETAILS Windows 10 (professional /enterprise)/ Linux / Unix any OS

- 4GB -16 GB RAM
- Chrome (latest version)/ Mozilla / Firefox etc.
- Admin Rights
- Should be able to take RDP of VM on public IP address and Port **Port 53 (UDP**). This port is used to access DNS servers. • Port 443 (TCP) This port is used for client application updates, registration, and authentication.
- Internet Connection with 100 Mbps
- VS Code.



aws List of experiments/contents to students:-

Module-1: Cloud Concepts Overview Introduction to cloud computing Advantages of the cloud Introduction to AWS Moving to the AWS Cloud Activity: Sample Exam Question Knowledge check

Module-2: Cloud Economics and Billing Fundamentals of pricing Total cost of ownership Activity: Simple Monthly Calculator Delaware North case study

AWS Organizations AWS billing and cost management Billing dashboards

aws List of experiments/contents to students:-

Module-3:

AWS Global Infrastructure Overview

AWS global infrastructure

Demo: AWS global infrastructure

AWS services and service categories

Activity: AWS Management Console Click through

Module-4:

Cloud Security

AWS shared responsibility model

Activity: AWS Shared Responsibility Model

AWS IAM Demo: AWS IAM Console

Securing a new AWS account

Lab: Introduction to AWS IAM

Securing accounts

Securing data Working to ensure compliance



aws List of experiments/contents to students:-

Module-5:

Networking and Content Delivery

Networking basics

Amazon VPC

VPC networking

Activity: Label This diagram

Demo: Amazon VPC Console

VPC security /

Activity: Design a VPC /

Lab: Build a VPC and Launch a Web

Module-6:

Cloud Security

AWS shared responsibility model

Activity: AWS Shared Responsibility Model

AWS IAM Demo: AWS IAM Console

Securing a new AWS account

Lab: Introduction to AWS IAM

Securing accounts

Securing data

Working to ensure compliance



aws List of EXPERIMENTS/CONTENTS TO STUDENTS:-

Module-6:

Compute

Compute services overview

Amazon EC2 part 1

Amazon EC2 part 2

Amazon EC2 part 3

Demo: Amazon EC2

Lab: Introduction to Amazon EC2

Activity: Amazon EC2 Versus Managed Services

Demo: Amazon EC2 Part Console

Amazon EC2 cost optimization

Container services

Introduction to AWS Lambda

Activity: AWS Lambda



aws ROADMAP

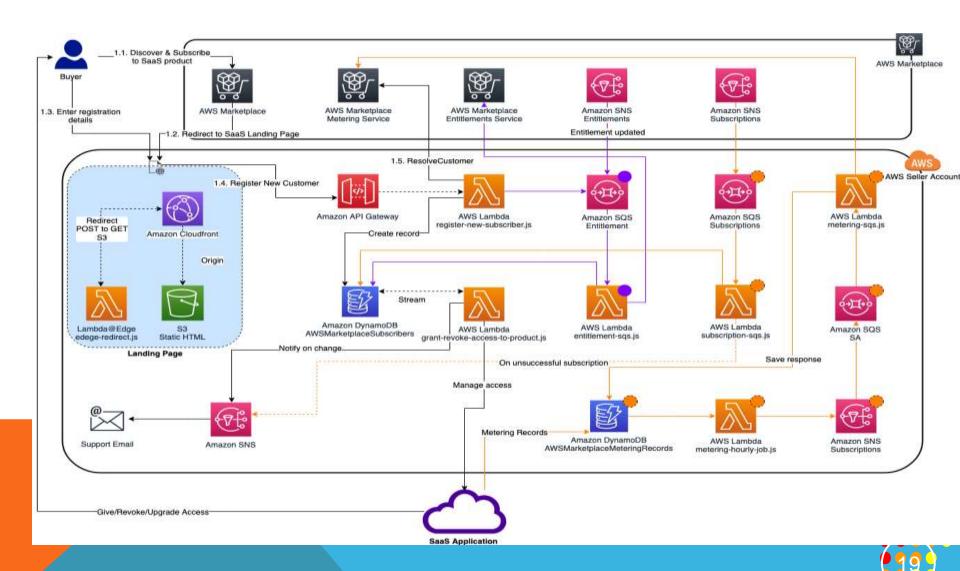
















• AWS Certified Students

>749+ students have AWS Azure Certifications, List is attached





































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Understanding State Skilling Interventions

Dr. N. Mohar Vice P Naan Mudha Developr Sheriff

u Skill

Dr. Muralee aran Manning

CEC

of Kerala

Bridging the Skills Gap, Building the Future

aws









THANK YOU

