

School of Computer, Information and Mathematical Sciences

DEPARTMENT OF INFORMATION TECHNOLOGY

AWS Workshop- Report

27.03.2025

A Workshop on Application Deployment and Load Balancing on AWS for High Availability was organized by Department of Information Technology, B.S. Abdur Rahman Crescent Institute of science and Technology, Chennai on 17.03.2025. The event took place in IT LAB 3 and was attended by students of VI Sem B.Tech- IT. The primary goal of this workshop was to provide students with a comprehensive understanding of AWS Load Balancing and application deployment strategies to ensure high availability. Through practical hands-on sessions and theoretical insights, the workshop aimed to equip attendees with the necessary skills to design and implement scalable and fault-tolerant applications on the AWS cloud platform.

Key focus areas included:

Introduction to AWS Cloud

- Overview of AWS services
- Benefits of cloud computing
- Understanding AWS global infrastructure

Elastic Load Balancer (ELB)

- Concepts of Load Balancing
- Types of Elastic Load Balancers (Application Load Balancer, Network Load Balancer, and Gateway Load Balancer)
- Features and benefits of ELB

Application Deployment

- Introduction to EC2 instances
- Configuring and launching EC2 instances
- Deploying web applications on EC2

Key Learning Outcomes for Students

- Comprehensive knowledge of AWS Load Balancing services and their applications.
- Ability to deploy and manage applications using EC2 instances.
- Proficiency in configuring Application Load Balancers to ensure seamless traffic management.

Hands-on Activities

Participants engaged in hands-on labs where they:

- Created an AWS Application Load Balancer (ALB).
- Deployed a simple web application using Amazon EC2.
- Configured health checks to monitor application status.

Workshop Outcome

By the end of the workshop, participants had gained practical experience in deploying and managing high-availability applications using AWS. They were equipped with the skills to design scalable, secure, and fault-tolerant architectures using AWS services. Additionally, the demonstration brought a clear understanding of implementing and maintaining AWS Load Balancers to ensure continuous application availability and optimal performance.

This hands-on, interactive learning experience enabled students to apply AWS technologies effectively in their own projects and future cloud deployments.

Brochure



The brochure is for an AWS Workshop organized by the School of Computer Information and Mathematical Sciences, Department of Information Technology. The workshop is titled 'AWS WORKSHOP' and focuses on 'Application Deployment & Load Balancing on AWS for High Availability'. It is scheduled for 1:30pm - 3:00pm on 18 MARCH, 2025, at IT Dept Lab3. The workshop is organized by Mr. S. VINOTH KUMAR, a Networking and Cloud Trainer at FIT FORMACION (P) LTD. The staff coordinator is Dr. A. SONYA (AP(Sr.Gr)/IT) and Mrs. PAVITHRA R (AP/IT). The convenor is Dr. N. PRAKASH, Professor & Head / IT.

School of Computer Information and Mathematical Sciences
DEPARTMENT OF INFORMATION TECHNOLOGY
ORGANIZES

AWS WORKSHOP

Application Deployment & Load Balancing on AWS for High Availability

1:30pm - 3:00pm | 18 MARCH, 2025

IT Dept Lab3

Mr. S. VINOTH KUMAR
NETWORKING AND CLOUD TRAINER
FIT FORMACION (P) LTD.

STAFF COORDINATOR
Dr. A. SONYA
AP(Sr.Gr)/IT
Mrs. PAVITHRA R
AP/IT

CONVENOR
Dr. N. PRAKASH
PROFESSOR & HEAD / IT

Attendance sheet

AWS Workshop

Sem: VI

S.No	RRN No.	Name in block letters	Signature
1	220081601001	AAMINA FATHIMA	
2	220081601002	ABDURRAOOF A R	<i>Raaf</i>
3	220081601003	ABIRAMA VARSHINI V	<i>Abir</i>
4	220081601004	ABIRAMI M	<i>Abirami</i>
5	220081601005	AFSHAN ZEHERA	<i>Afs</i>
6	220081601006	AHAMED ABDEEN S A C	<i>Ahmed</i>
7	220081601007	ANISH KUMAR N	<i>Anish</i>
8	220081601008	ASHWIN N	<i>N. Ashwin</i>
9	220081601009	ASHWINI S	
10	220081601010	ASIN FATHIMA S	<i>Asin</i>
11	220081601011	AVANTHIKA ARAVIND	
12	220081601012	BADHURUDEEN SAIT M	<i>Badhurudeen</i>
13	220081601013	EMADEEN S	<i>Emadeen</i>
14	220081601014	FARHAT NAUSHEEN	<i>Farhat</i>
15	220081601015	GAUTHAM RISHAB S	<i>Gautham</i>
16	220081601016	GOWTHAM S	<i>Gowtham</i>
17	220081601017	GUNALINI R	<i>Gunalini</i>
18	220081601018	HARINI G	<i>Harini</i>
19	220081601019	HARISH HASAN M	<i>Harish</i>
20	220081601020	HISHAAM AHAMED M	<i>Hishaam</i>
21	220081601021	HISHAMUDIN HUSSAIN BIN SHAHUL HAMEED S	<i>Hisham</i>
22	220081601022	ISMAIL THOUFEEQ	<i>Ismail</i>
23	220081601023	IZHAAN WASEEM M	<i>Izhaan</i>
24	220081601024	JANI ARAFATH A	<i>Jani</i>
25	220081601025	JERLIN SIBIYAL A	<i>Jerlin</i>
26	220081601026	KHALID SULTAN K	<i>Khalid</i>
27	220081601028	MAMTA NASREEN	<i>Mamta</i>
28	220081601029	MOHAMED ABDUL AZEEZ	<i>Azeez</i>
29	220081601030	MOHAMED AKRAM S	<i>Akram</i>
30	220081601031	MOHAMED FAIZ M R	<i>Faiz</i>
31	220081601032	MOHAMED FAZHULULLA S	<i>Fazhul</i>
32	220081601033	MOHAMED FAZIL A	<i>Fazil</i>
33	220081601034	MOHAMED ISMAIL FAIZAL M	<i>Ismail</i>
34	220081601035	MOHAMED ISMAIL. MS	<i>Ismail</i>
35	220081601036	MOHAMED JASEEN M	<i>Jaseen</i>
36	220081601037	MOHAMED JASIM A	<i>Jasim</i>
37	220081601038	MOHAMED MUHSIN	<i>Muhsin</i>



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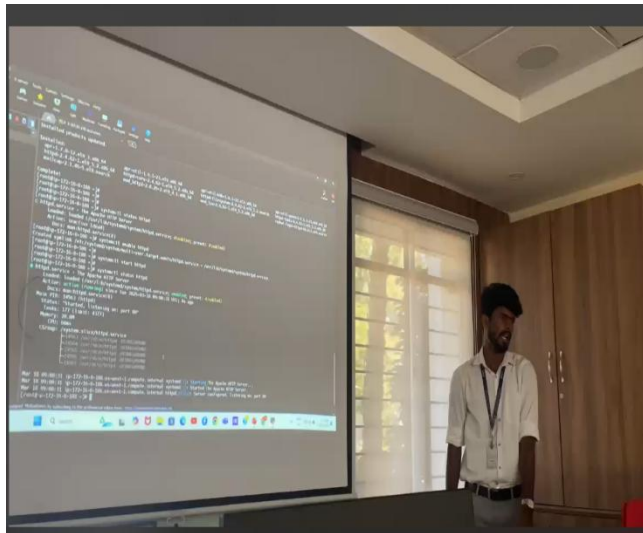
Crescent

Institute of Science & Technology

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38	220081601039	MOHAMED NAFIN A	<i>a. nafi</i>
39	220081601040	MOHAMED NIHAL	<i>nihal</i>
40	220081601041	MOHAMED RIDHWAN R	<i>R. Ridhwan</i>
41	220081601042	MOHAMED SATHIK N	<i>Sathik</i>
42	220081601043	MOHAMMAD HARIS YOUSUF	
43	220081601044	MOHAMMED HIZBULLAH M Y	<i>Hizbullah</i>
44	220081601045	MOHAMMED IMTHIYAS M	<i>Imthiyas</i>
45	220081601046	MOHAMMED OMAR RAHMAN	<i>Omar</i>
46	220081601047	MOHAMMED SAIFUDDEEN S	<i>Saifuddeen</i>
47	220081601048	MUHAMMAD HAMTHAN	<i>Hamthan</i>
48	220081601049	MUHAMMADH M	<i>Muhammadh</i>
49	220081601050	MURSHITHA PARVEEN. M	
50	220081601051	MUSHFIQ AHMAD	<i>Mushfiq</i>
51	220081601052	NADEEM ISMAIL M	<i>Nadeem</i>
52	220081601053	NIYAJUDEEN N	<i>Niyajudeen</i>
53	220081601054	NOORUL AFREEN M T	<i>Noorul</i>
54	220081601055	PREMNATH R	<i>Premnath</i>
55	220081601056	REEMA SHEAIK	<i>Reema</i>
56	220081601057	RILAH Z	<i>Rilah</i>
57	220081601058	RISHIKA RAI	<i>Rishika</i>
58	220081601059	SANJAY V	<i>Sanjay</i>
59	220081601060	SHAHUL HAMEED ASSAF M M	<i>Shahul</i>
60	220081601061	SHRINIVAS J R	<i>Shrinivas</i>
61	220081601062	SIDDIQUE S A	<i>Siddique</i>
62	220081601063	SUMAIYA FAZARIA P J	<i>Sumaiya</i>
63	220081601064	SWATHI A	<i>Swathi</i>
64	220081601065	SWETHA K	<i>Swetha</i>
65	220081601066	SYED SUHAIL AHMED	<i>Syed</i>
66	220081601067	TANZINA RESHFIYA T F	<i>Tanzina</i>
67	220081601068	UMAR FAROOK RIZWAN H	<i>Umar</i>
68	220081601069	VALAI MOHAMMED NABHAN	<i>Valai</i>
69	220081602001	AHAMED NAWFAL	<i>Ahamed</i>
70	220081602002	ASHWANTH JOEL P	<i>Ashwanth</i>
71	220081602003	GRIDARAN.T	<i>Gridaran</i>
72	220081602005	ROSHAN ADHITHYA V.P	<i>Roshan</i>

Photos coverage of the event



Feedback details:

<div> <h3>AWS Workshop Feedback form</h3> <p>Thank you for attending the workshop. Please take a few minutes to provide your valuable feedback. Your responses will help us improve future workshops.</p> <p><small>* Indicates required question</small></p> <p>What topics would you like to see covered in future workshops? *</p> <p>Your answer</p> <hr/> <p>Was the content relevant and helpful in understanding AWS Load Balancing and High Availability? *</p> <p> <input type="radio"/> Strongly disagree <input type="radio"/> Disagree <input type="radio"/> Neutral <input type="radio"/> Agree <input type="radio"/> Strongly agree </p> <p>Did the instructor explain the concepts clearly and address questions effectively?</p> <p> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Somewhat </p> <p>Do you feel more confident in using AWS Load Balancer services and deploying applications? *</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p> </div>	<div> <p>Did the instructor explain the concepts clearly and address questions effectively?</p> <p> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Somewhat </p> <p>Do you feel more confident in using AWS Load Balancer services and deploying applications? *</p> <p> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Maybe </p> <p>What was the most valuable aspect of the workshop for you? *</p> <p>Your answer</p> <hr/> <p>How would you rate the overall experience of the workshop? *</p> <p> 1 2 3 4 5 <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> </p> <p>How satisfied were you with the balance between theory and hands-on sessions? *</p> <p> 1 2 3 4 5 <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> </p> <p> <input type="button" value="Submit"/> <input type="button" value="Clear form"/> </p> </div>
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Coordinators

Dr.Sonya AP (Sr.Gr) / IT
 Mrs. R. Pavithra AP/ IT

HOD / IT

Dr. N. Prakash

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☐ Strongly disagree
☐ Disagree
☐ Neutral
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☐ Strongly agree

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☐ Yes
☐ No
☐ Somewhat

Do you feel more confident in using AWS Load Balancer services and deploying applications? *

☐ Yes
☐ No

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What was the most valuable aspect of the workshop for you? *

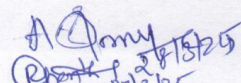
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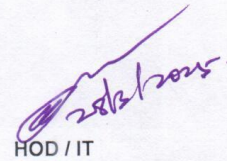
How satisfied were you with the balance between theory and hands-on sessions? *

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 Coordinators

Signature

Dr. Sonya AP (Sr.Gr) / IT
Mrs. R. Pavithra AP/ IT


 HOD / IT

Dr. N. Prakash