



Event Coordinator(s)

I. Prof. Tejal Deshpande

Prof. Panil Jain

Time & Place:

10:00 am to 4:00 pm

Online Zoom Meeting

Department:

EXTC

No of participants:

55

Details of Resource Person:

Rajkumar Pawar

Asst. Professor at Gharda Institute of Technology, Lavel.

Aaron Johns

Lecturer at St. Xavier's College.

Yati Gharat

Chief Technology Officer at Litmus Information Systems LLP

Prof. Kunal Meher

Asst. Professor at Xavier Institute of Engineering

Dr Bhushan Jadhav

an Assistant Professor at Thadomal Shahani Engineering College, Mumbai, in the Department of Artificial Intelligence & Data Science.

Description of EVENT:

A 6 day workshop on the topic "Cloud Computing" was started on 11th of July, 2022 for the students of EXTC branch. The students were briefly introduced to the concept of Cloud Computing which is an Information Technology paradigm that enables ubiquitous access to shared pools of configurable system resources and higher level services that can be rapidly provisioned with minimal management effort, often over the internet. The speaker also discussed the building blocks of Cloud which are: Virtualization Network Storage and Web Services

Virtualization is running multiple Operating Systems simultaneously on a single system.

Cloud Networking is a term describing the access of networking resources from a centralized third party provider using Wide Area Networking (WAN) or internet based technologies.

Cloud Storage is a model of data storage in which the digital data is stored in the logical pools, the physical storage spans multiple servers and physical environment is typically owned and managed by a hosting company.

Web Services is a service offered by an electronic device to another electronic device, communicating with each other via the World Wide Web.

He also spoke about the challenges faced in this field about Data Security and privacy, Legal and regulatory compliance, Control and responsiveness, Lack of benchmarking or leading practice experience, Ambiguity over how best to quantify, track and communicate the benefits of Cloud Computing, Threat of potential over reliance on a

single-source IT provider, Lack of interoperability, Resistance from datacenter IT personnel. Further on he explained that Serverless Computing is a Cloud Computing execution model in which the Cloud provider allocates machine resources on demand, taking care of the servers on behalf of their customers. He also shared his experience about using Linux and Ubuntu as an OS and also explained the process to download the Ubuntu OS. The speaker also highlighted some of the most popular Cloud Computing platforms like AWS, Microsoft Azure, Google Cloud platform, Oracle, IBM.

Talking about AWS (Amazon Web Services) he said it is a platform that allows application providers, ISVs and vendors to quickly and securely host applications over the cloud. It offers various services like a combination of infrastructure and software services along with computing power, scalability, reliability, and secure database storage. AWS is User-Friendly, Flexible, Secure, Cost-effective, Reliable, Scalable and Elastic and Highly Performant. It includes a mixture of Infrastructure as a Service (IAAS), Platform as a Service (PAAS) and Packaged software as a Service (SAAS) offerings. Some of the services provided by AWS are AWS Lambda, Amazon S3, etc.

He described Microsoft's Azure as a platform for hosting databases in the cloud. Azure is a public cloud computing with solutions including Infrastructure as a Service (IAAS), Platform as a Service (PAAS), Software as a service (SAAS) that can be used for services such as analytics, virtual, computing, storage, networking and much more. Microsoft offers serverless relational databases such as AzureSQL and non-relational databases such as NoSQL. Microsoft Azure is Flexible, Open, Reliable, Global, Economical.

While talking about many Cloud Computing platforms he also mentioned about Git which is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. It is a software for tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during software development. Its goals include speed, data integrity and support for distributed non-linear workflows. He also mentioned GitHub a for-profit company offering a cloud based Git repository that helps developers store, manage, track and control changes to their code. The Version feature of GitHub helps developers to track and manage changes to a software project code. As a software project grows, version control becomes essential. One special mention that the speaker made was about GitLab which is same as Github but the key difference is that GitLab has Continuous Integration/Continuous Delivery (CI/CD) and DevOps workflows built-in. The speaker also shared a few words on the topic DevOps where he stated that DevOps is a combination of the terms development and operations, meant to represent a collaborative or shared approach to the tasks performed by a company's application development and IT operations teams. There was a quiz conducted on Google Forms in the end to assess how much the students understood and how they applied their knowledge.

Conclusion of the Session:


All the participants learnt about various technologies in Cloud Computing like Hypervisor, Virtualization, Hosting, Network, Storage, Web Services, Git, GitHub, and Operating Systems like Linux and Ubuntu, they also learnt about the process of configuring Azure, AWS. The students also learned the importance of Cloud Computing in today's industry and how to proceed further if they also wanted to create something similar in future.

Participants:

| Sr. No. | Name |
|---------|-----------------------------|
| 1 | NITIN SALE |
| 2 | JYOTIRMAY UMESH PATIL |
| 3 | MEGHA M. KOLHEKAR |
| 4 | PRACHEE BHOWMICK |
| 5 | DR. SHARADA VIKRAM CHOUGULE |
| 6 | ARTI ROHAN SAWANT |
| 7 | FRASON FRANCIS |
| 8 | KRISHNA ANISH GARG |
| 9 | RAHUL RAVI VIJAN |
| 10 | ADWAIT SHEKHAR JOSHI |
| 11 | VINEET PRASHANT DABHOLKAR |
| 12 | DICHWALKAR MIHIR MAHESH |
| 13 | RIDDHI VRUSHALI PARAG WAKDE |
| 14 | ADITYA SUNIL WAICHOL |
| 15 | ROLAND NORBERT DSOUZA |
| 16 | CHINTAKINDI AKASH PRAKASH |
| 17 | SAHIL VIJAY PAWAR |
| 18 | SUDESH KISHOR MANJREKAR |
| 19 | JONATHAN CARDOZ |

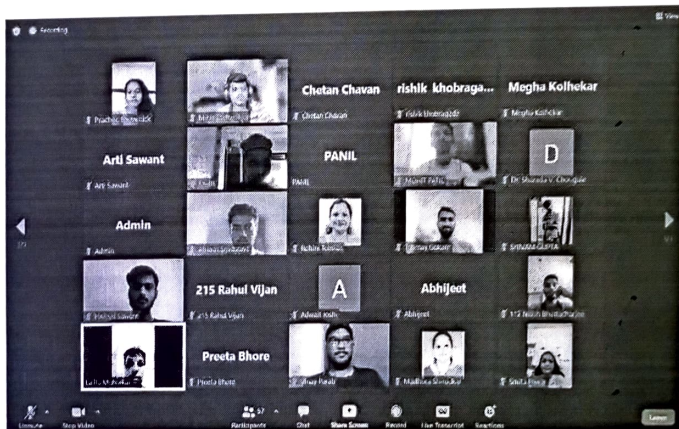
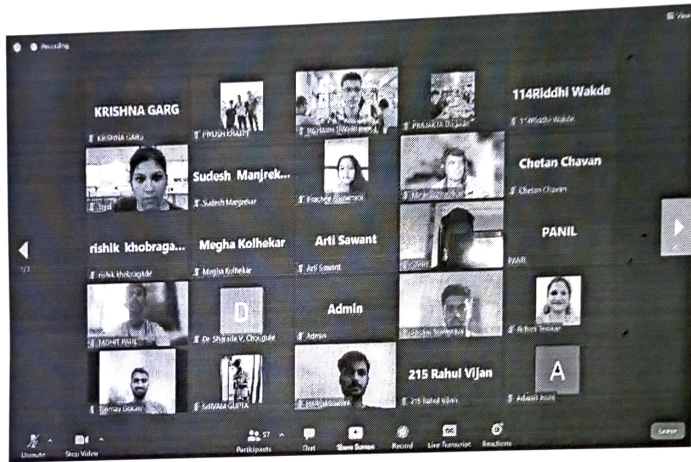
| | |
|----|---------------------------|
| 20 | AISHWARYA R. SHENVI |
| 21 | SUDEEP DILIP VISHWAKARMA |
| 22 | HARSHDA BHATU KHAIRNAR |
| 23 | PRAJAKTA DAGADE |
| 24 | SHRIPAD K GAIKWAD |
| 25 | NITISH BHATTACHARJEE |
| 26 | DIVYA SUNIL KARGUTKAR |
| 27 | PIYUSH KHATPE |
| 28 | VINAY RAJARAM PARAB |
| 29 | ROHIT SHEMBEKAR |
| 30 | CHIRAC PARMAR |
| 31 | MOHAMMAD QASIM |
| 32 | TANMAY GOKARN |
| 33 | ELVIS DSILVA |
| 34 | SIDDHESH MARUTI ZAGADE |
| 35 | AFFAN SUHAIB INAMDAR |
| 36 | AHSAAS SRIVASTAVA |
| 37 | CHETAN CHAVAN |
| 38 | RISHABH JAIPRAKASH TIWARI |
| 39 | DR VIDYA SARODE |
| 40 | PREETA BHORE |
| 41 | SHAILAJA UDTEWAR |

| | |
|----|-----------------------------|
| 42 | JOSHUA RAJ ANANDA SELVARAJ |
| 43 | PRITHVI HARISCHANDRA GAWADE |
| 44 | MADHURA SHIRODKAR |
| 45 | ABHIJEET AMAR PHALKE |
| 46 | SONAL AMIT PATIL |
| 47 | HARSH SHASHIKANT SAWANT |
| 48 | NIRAJ CHALKE |
| 49 | JADHAV KUNAL NANDKUMAR |
| 50 | ABHISHEK ARUN PATIL |
| 51 | ANIKET PRAMOD MESHARAM |
| 52 | RISHIK KHOBRADE |
| 53 | DR. ROHINI TEMKAR |
| 54 | MANDAR SANJU BAVDANE |
| 55 | NITIN AHIRE |


(Tejal Deshpande)
Asst. Prof.
Pamil Jain
Asst. Prof.


Dr. Vidya S. Gode.

Photographs:



Questions:

MCQ On Cloud Computing

2/2 points

✓ 1. What can trigger a Lambda function execution? * 2/2

- a table definition
- queue isolation
- An SNS topic ✓
- STS write

✓ 2. Storage classes available with Amazon s3 are__ * 2/2

- Amazon S3 standard
- Amazon S3 standard-infrequent Access
- Amazon Glacier
- All of the above ✓

✓ 3. How can you integrate IAM with data centers security? * 2/2

- SAML ✓
- AWS VPN
- AWS Direct Connect
- None of the above

✓ 4. What is the maximum size of an Amazon S3 bucket? * 2/2

- 5 TB ✓
- 200 GB
- 200 TB
- 2 GB

✓ 5. What are the uses of Amazon Glacier? *

1/1

- Auto Scaling and Load and Balancing
- Access infrequent data and archive data ✓
- Store frequently access data
- Fast Computing

✓ 6. What does S3 stand for in Amazon S3? *

1/2

- Storage Simple Service
- Single Storage Service
- Simple Storage Service ✓
- Super Storage Service

✓ 7. Choose the below statements are true or false for AWS. *

2/2

1. When you create an IAM user, you grant it permissions by default. You can also create a group and attach policies to the user. 2. You can also clone the permissions of an existing IAM user, which automatically makes the new user a member of the same groups and attaches all the same policies.

- 1. True, 2. True ✓
- 1. True, 2. False
- 1. False, 2. True
- 1. False, 2. False

✓ 9. Which user is used to create an IAM user? *2/2

account ID (e.g., 123456789012) is called

- Main user
- IAM user
- Root user
- Super user

✓ 10. What action is needed before you can test a Lambda? 2/2

- Deploy the Lambda
- Export the function
- None of the these answers
- Configure a test event

✓ 10. How is the cost associated with Lambda function calculated? *2/2

- Number of function calls
- Compute time
- Amount of infrastructure used
- Number of services associated with Lambda

✓ 11 _____ is a billing and account management service *2/2

- Amazon Mechanical Turk
- Amazon Elastic MapReduce
- Amazon DevPay ✓
- Multi Factor Authentication

✓ 12 Amazon Web Services falls into which of the following cloud-computing category? *2/2

- Platform as a Service
- Software as a Service
- Infrastructure as a Service ✓
- Back-end as a Service

✓ 13 How many buckets can you create in AWS by default? * 2/2

- 100 buckets ✓
- 200 buckets
- 110 buckets
- 125 buckets

✓ 14. A _____ typically provides an object-oriented web-based interface to a database server *2/2

- hosting service
- mail service
- web service ✓

Results:

| Name | Marks |
|-------------------------|---------|
| PARAB VINAY RAJARAM | 40 / 40 |
| CHETAN CHAVAN | 40 / 40 |
| MOHIT PATIL | 40 / 40 |
| HARSH SHASHIKANT SAWANT | 40 / 40 |
| CHIRAC PARMAR | 40 / 40 |
| TEJAL DESHPANDE | 40 / 40 |
| JONATHAN CARDOZ | 40 / 40 |
| DAGADE PRAJAKTA RAMESH | 40 / 40 |
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| GOKARN TANMAY | 40 / 40 |
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| PIYUSH SUNIL KHATPE | 40 / 40 |
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| LEENA TUSHAR PATIL | 40 / 40 |
| NITISH BHATTACHARJEE | 40 / 40 |
| SHIVAM GUPTA | 40 / 40 |
| LALITA MOHARKAR | 40 / 40 |
| AHSAAS SRIVASTAVA | 38 / 40 |
| DICHWALKAR MIHIR MAHESH | 38 / 40 |
| JOSHUA RAJ ANANDA SELVARAJ | 38 / 40 |
| MADHURA SHIRODKAR | 36 / 40 |
| ARTI SAWANT | 36 / 40 |
| ROHIT SHEMBEKAR | 36 / 40 |
| DR. ROHINI TEMKAR | 36 / 40 |
| RAHUL VIJAN | 36 / 40 |
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| RISHABH JAIPRAKASH TIWARI | 34 / 40 |
| MOHAMMAD QASIM | 34 / 40 |

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|----------------------|---------|
| NISHANTH PATIL | 32 / 40 |
| RIDDHI WAKDE | 32 / 40 |
| ADWAIT SHEKHAR JOSHI | 32 / 40 |
| SONAL PATIL | 32 / 40 |
| ANIKET MESHRAM | 30 / 40 |
| MEGHA KOLHEKAR | 28 / 40 |
| RISHIK KHOBRADE | 28 / 40 |
| KRISHNA GARG | 26 / 40 |
| PRITHVI GAWADE | 26 / 40 |
| PRACHEE BHOWMICK | 26 / 40 |