



REPORT
on
A ONE WEEK ONLINE SHORT-TERM TRAINING PROGRAMME
on
“MICROSOFT AZURE: With Hands-On Session”
(25th – 30th May 2020)

Lakireddy Bali Reddy College of Engineering (A) has organized A One Week Online Short-Term Training Programme on “Microsoft Azure: With Hands-On Session” from 25th – 30th May 2020. This training program was organized by **Department of CSE** and have received an overwhelming response with more than 300 registrations. Out of them, we have shortlisted only 150 participants by giving more preference to the Final Year Student participants from various institutes or colleges approved by UGC/AICTE and affiliated to various Universities across the PAN India.

Date: 25/05/2020

Inauguration:

STTP was inaugurated on 25/05/2020 by **Dr. D. Veeraiah, Professor and HOD, CSE Department and Convener of STTP** along with **Mr. Kumar Potluri, Associate Technical Lead, Prokarma Softech** and **Mr. Shaik Johny Basha, Assistant Professor, CSE Department and Coordinator of STTP.**

Mr. P. Vamsi Naidu, Coordinator of STTP, has welcomed all the delegates and participants to the STTP. In his speech, Mr. Naidu has highlighted the main objective and importance of this Short-Term Training Programme. Along with this, he gave a brief intro about how the selection process has done and why we have given preference to the students.

In his Inaugural Speech, **our HOD, Dr. D. Veeraiah**, gave his insights about the Microsoft Azure. And, he added that the technology has been evolved from maintaining the servers to the cloud based, most of the companies has been transformed from physical hardware to the cloud-based infrastructure. So, everyone from academician to the student should get knowledge on this to develop applications or using Azure for Cloud-based deployments.

Day 1: 25/05/2020

Topic: Basics and Importance of Cloud Computing

Resource Person: Mr. Kumar Potluri, Associate Technical Lead, Prokarma Softech

Our Resource Person, **Mr. Kumar Potluri**, started his lecture by giving clear insights on what is Cloud Computing and Importance of Cloud Computing. Along with that, he also discussed the advantages with Cloud Computing and different Cloud Service Providers. He also shown that how the cloud account will be visible to the participants in Microsoft Azure by logging into his account.

Cloud Computing

Cloud Computing is the use of hardware and software to deliver a service over a network (typically the Internet). With cloud computing, users can access files and use applications from any device that can access the Internet.

(in other words)

Cloud computing is the on-demand availability of computer system resources, especially data storage and computing power, without direct active management by the user.

Services like PaaS, IaaS and SaaS.

The diagram illustrates the layers of cloud computing: **Application** (Monitoring, Content, Collaboration, Communication, Finance), **Platform** (Object Storage, Identity, Runtime, Queue, Database), and **Infrastructure** (Compute, Block Storage, Network). Devices shown include Laptops, Servers, Desktops, Phones, and Tablets.

Microsoft Azure | Access keys - Microsoft Azure

Storage accounts | appinsightscedata | Access keys

Use access keys to authenticate your applications when making requests to this Azure storage account. Store your access keys; don't share them. We recommend regenerating your access keys regularly. You are provided two access keys so that you can regenerate the other.

When you regenerate your access keys, you must update any Azure resources and applications that access this storage account access to disks from your virtual machines. [Learn more about regenerating storage access keys](#)

Storage account name: appinsightscedata

key1

Key: SJ6M03W4D5GKY2yDL50Rpb+kaRZ/ZwvsErV2kN5SHHN+245Wh6i9tN3ac5UK77fXmueodagji73OGoeYXw==

Connection string: DefaultEndpointsProtocol=https;AccountName=appinsightscedata;AccountKey=SJ6M03W4D5GKY2yDL50Rpb+kaRZ/ZwvsErV2kN5SHHN+245Wh6i9tN3ac5UK77fXmueodagji73OGoeYXw==

key2

Key: AZy6DIAxP4uPhjwYn/dIPedOQuTYBF4k+x5BzGG2yANyq3Dct+CS5hyYHimv6UNRRep+2C6/8TO+PGZEw==

Connection string: DefaultEndpointsProtocol=https;AccountName=appinsightscedata;AccountKey=AZy6DIAxP4uPhjwYn/dIPedOQuTYBF4k+x5BzGG2yANyq3Dct+CS5hyYHimv6UNRRep+2C6/8TO+PGZEw==

Day 2: 26/05/2020

Topic: Azure Hierarchy and Services

Resource Person: Mr. Kumar Potluri, Associate Technical Lead, Prokarma Softech

Our Resource Person, **Mr. Kumar Potluri**, started his lecture by giving a brief overview on first day lecture and started with Azure Hierarchy. In his lecture, he spoke about the directory structure, subscription, resource groups and resources in Azure. He also discussed the process of creating a Database and a Virtual Machine in Azure. Also he shown the process of creating a Virtual Machine in Azure with his login and requested the participants to create their Azure Cloud Account by giving card details which will debit only Rs. 2/- and they will be back to their account in 2 days.

Azure Hierarchy

- Directory - User Account
- Subscription : Paid/Free Account
- Resources Group : Ex: HelloWorld
- Resources : Ex: MyWebsite

Subscription → Resource Group → Resource

The slide is on a yellow background with a grid pattern. At the bottom, there is a navigation bar with several colored circles representing different participants.

Web App - Microsoft Azure

Overview Solutions Products Documentation Pricing Training Marketplace Partners Support Blog More

instance can support multiple applications and domains. The isolated plan hosts your apps in a private, dedicated Azure environment and is ideal for apps that require secure connections with your on-premises network, or additional performance and scale. App Service plans are billed on a per-second basis.

OS/Software: Windows Region: Central US Currency: Indian Rupee (₹) Display pricing by: Hour

	FREE Try for free	SHARED Environment for dev/test	BASIC Dedicated environment for dev/test	STANDARD Run production workloads	PREMIUM Enhanced performance and scale	ISOLATED High- performance, security and isolation
Web, mobile or API apps	10	100	Unlimited	Unlimited	Unlimited	Unlimited
Disk space	1 GB	1 GB	10 GB	50 GB	250 GB	1 TB
Maximum instances	-	-	Up to 3	Up to 10	Up to 30**	Up to 100*
Custom domain	-	Supported	Supported	Supported	Supported	Supported
Auto Scale	-	-	-	Supported	Supported	Supported
VPN hybrid connectivity	-	-	-	Supported	Supported	Supported
Network isolation	-	-	-	-	-	Supported
Price	Free	₹0.860/hour	₹4.958/hour	₹6.610/hour	₹13.220/hour	₹26.439/hour

Chat with sales

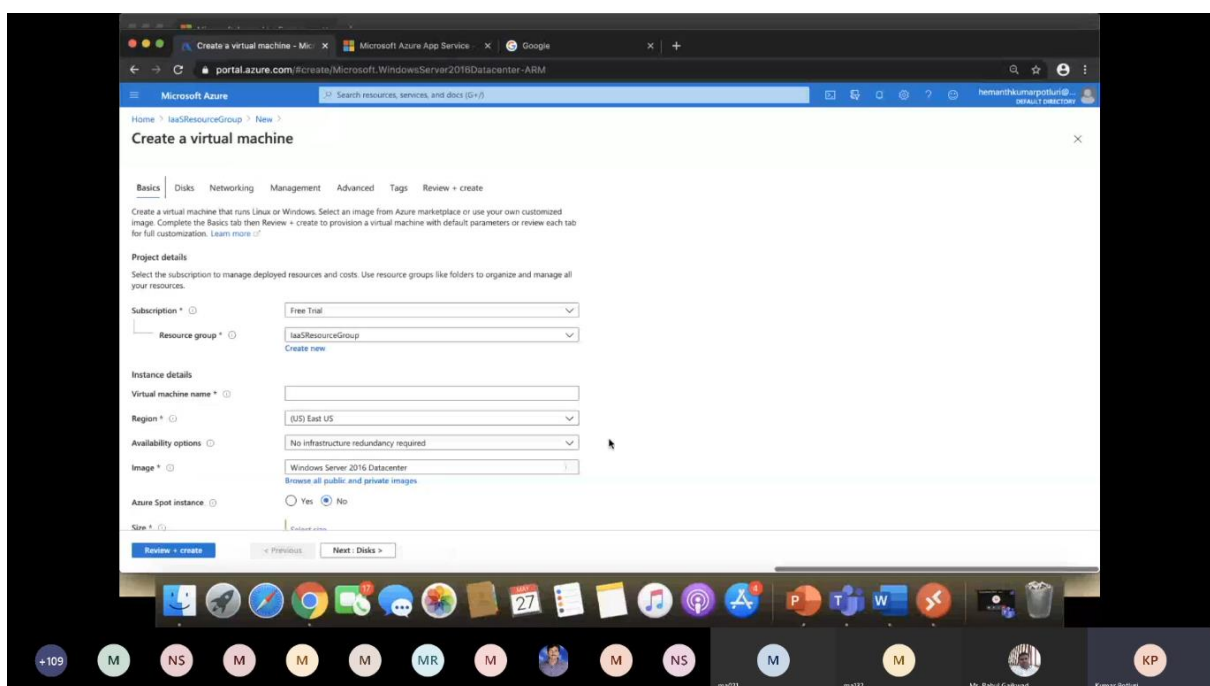
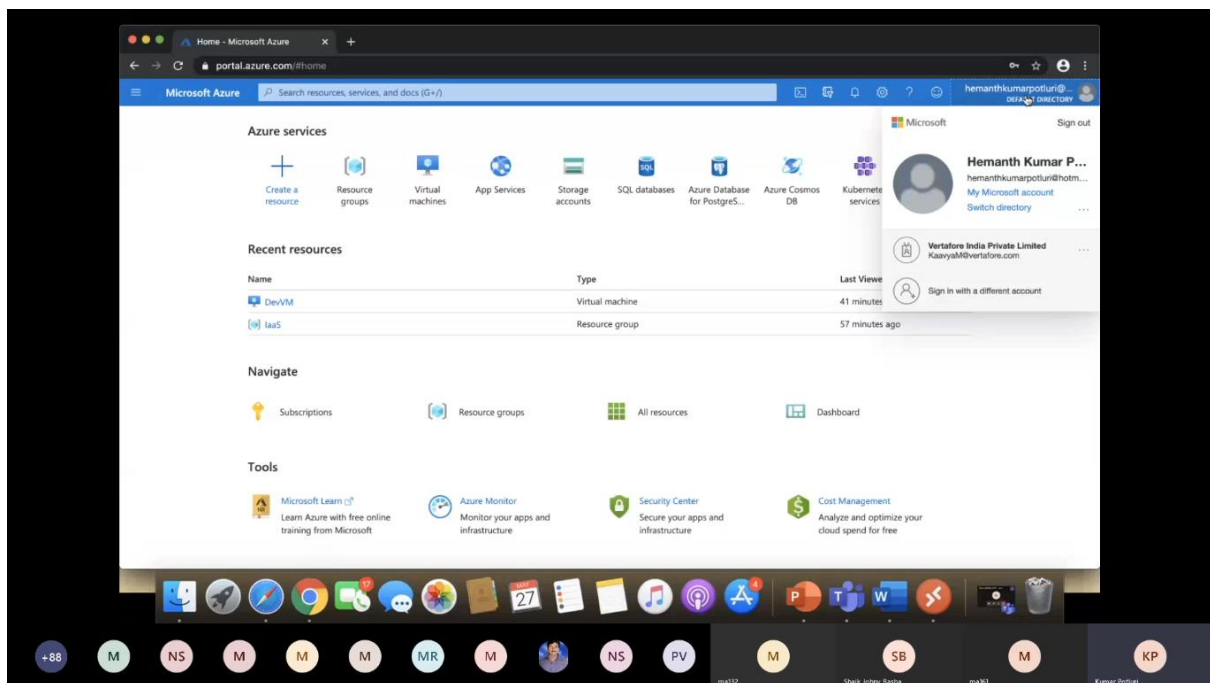
The screenshot shows the Azure App Service Pricing page with a navigation bar, a table of pricing options, and a chat button. The table lists various features and their availability across different pricing tiers.

Day 3: 27/05/2020

Topic: Azure Resource Groups Creation, Virtual Machine Creation and Accessing

Resource Person: Mr. Kumar Potluri, Associate Technical Lead, Prokarma Softech

Our Resource Person, **Mr. Kumar Potluri**, started his lecture by giving a brief overview on previous topic and started his lecture with list of Azure Resources. After the discussion, then he started the Hands-On session to the participants by showing how to create resource groups in Azure account and shown the virtual machine creation in the Azure. Then he have shown how we can access that virtual machine from our system.

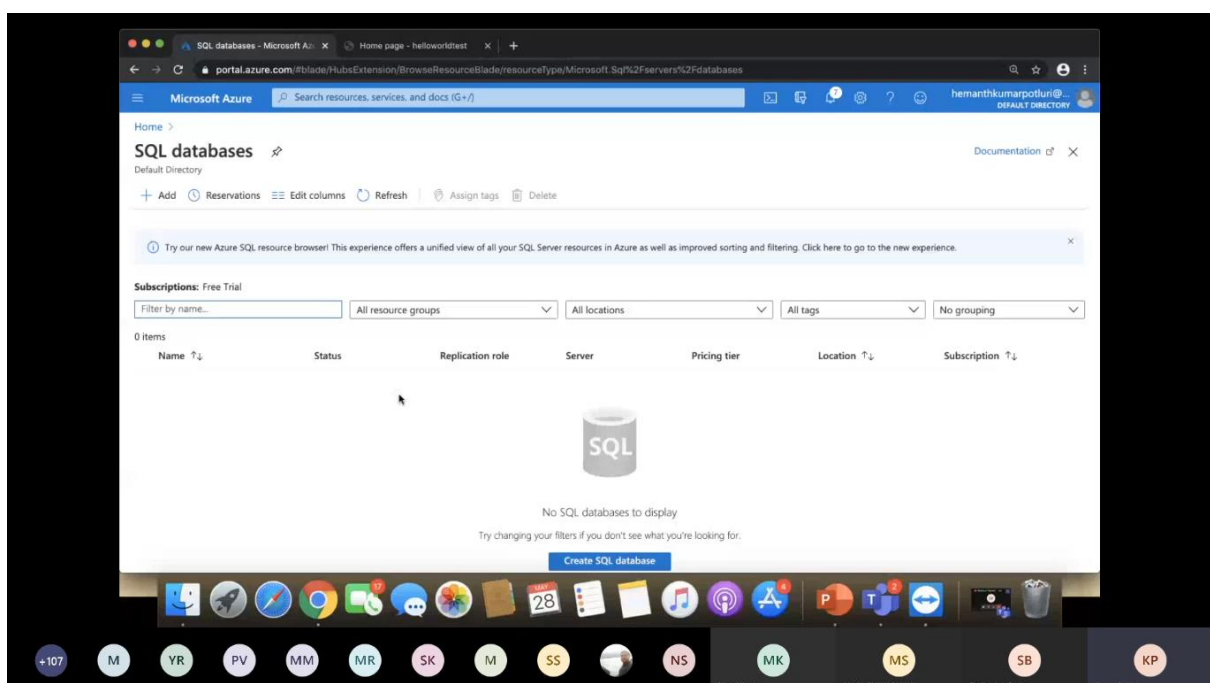
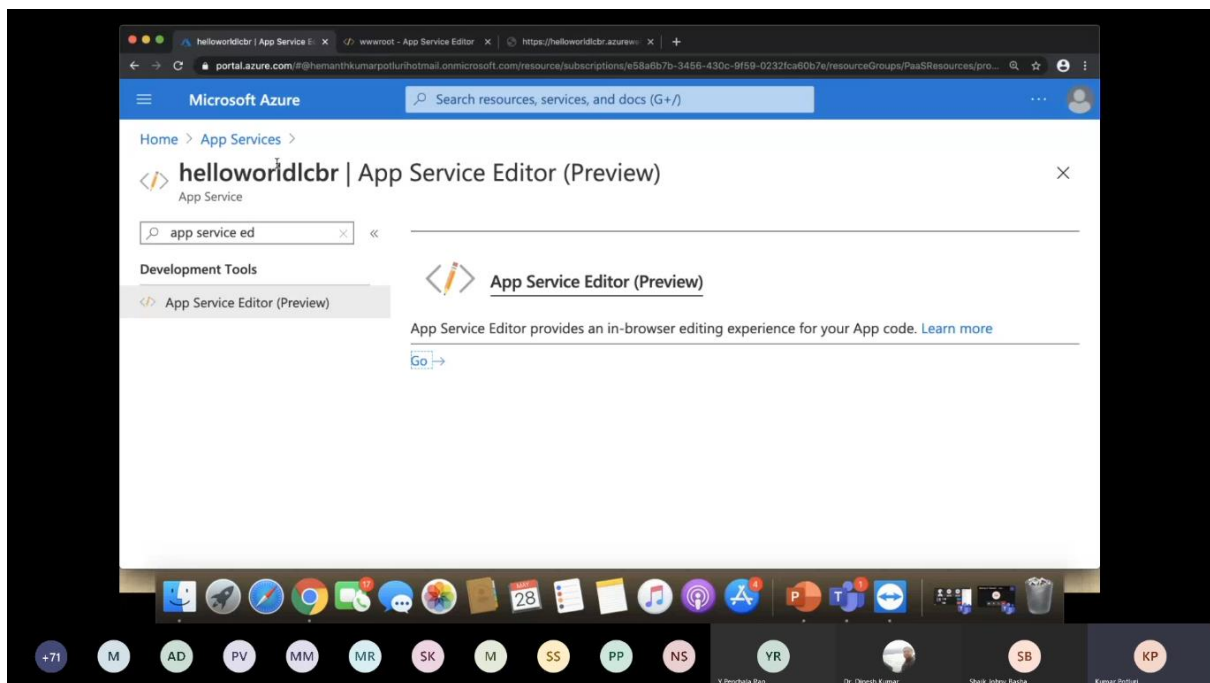


Day 4: 28/05/2020

Topic: Azure App Services and Web Application Deployment, SQL Database Creation

Resource Person: Mr. Kumar Potluri, Associate Technical Lead, Prokarma Softech

Our Resource Person, **Mr. Kumar Potluri**, started his lecture by giving a brief overview on previous topic and started his lecture with Creation of App Services in the Azure. Then he has shown the example of Web Application how it is deployed into the Azure. After that, he started a lecture on Storage on Azure i.e. SQL Database Creation in Azure and Storing data and Accessing from that Database.

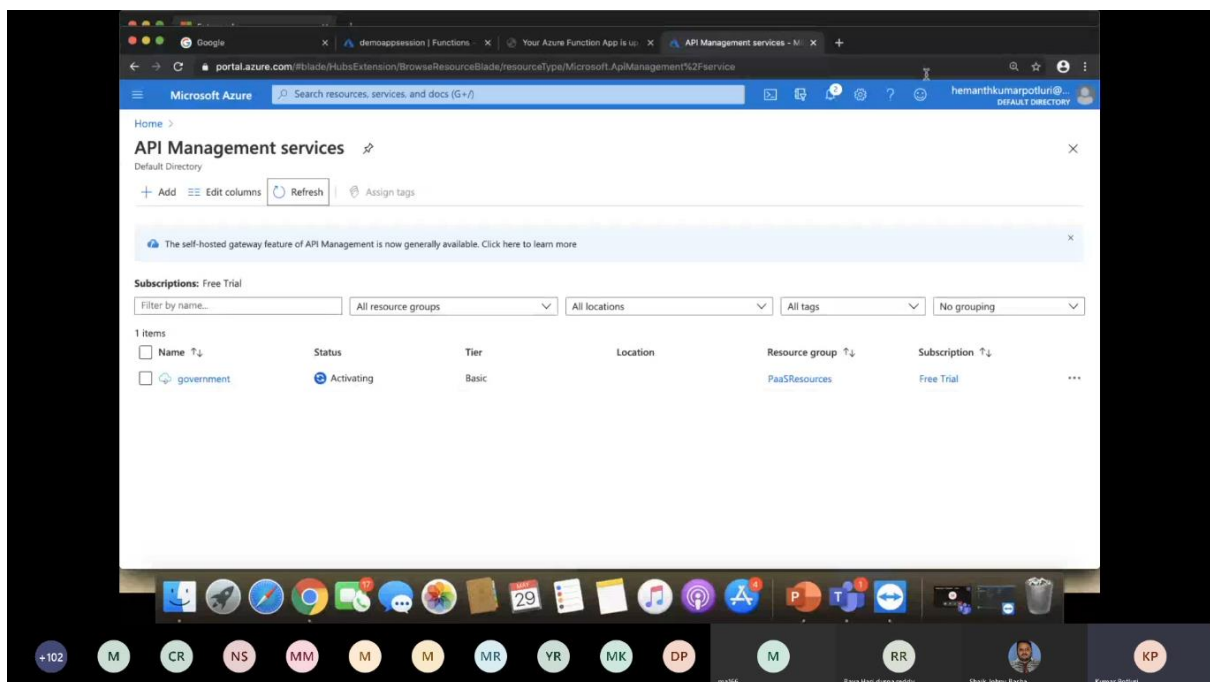
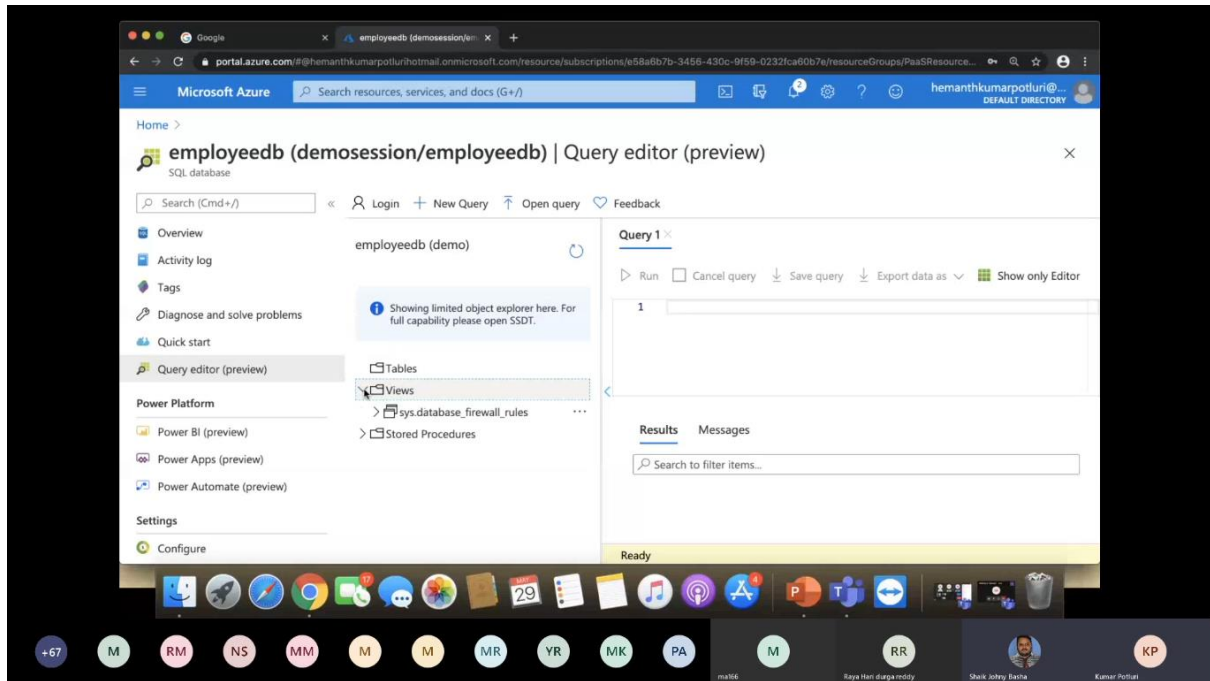


Day 5: 29/05/2020

Topic: Database Connection to Web Application and API Management Service

Resource Person: Mr. Kumar Potluri, Associate Technical Lead, Prokarma Softech

Our Resource Person, **Mr. Kumar Potluri**, started his lecture by giving a brief overview on previous topic and started his lecture with how we can connect the Database to the Web Application in the Azure. In this session, he has shown the Database Creation of an Employee and added that Database to the Web Application using API Management Service.



Day 6: 30/05/2020

Topic: Azure Active Directory and Authentication Service

Resource Person: Mr. Kumar Potluri, Associate Technical Lead, Prokarma Softech

Our Resource Person, **Mr. Kumar Potluri**, started his lecture by giving a brief overview on previous topic and started his lecture with insights of Azure Resources/Services. After that, he gave his insights on Azure Active Directory Service by comparing with Multi-Factor Authentication. Also, he has explained the concept of how Authentication can be done in Active Directory Service by considering an example. Then, the Hands-On session has been started to participants on authentication services.

Azure Active Directory

Users and groups in the directory, (and to a limited extent computers), and you can authenticate users against it to provide authentication and authorization for both web-based and native apps. It is managed through an administrative portal rather than the good old "Active Directory Users and Computers".

Windows Server **Active Directory** wasn't designed to manage web-based services. **Azure Active Directory**, on the other hand, was designed to support web-based services that use REST (Representational State Transfer) API interfaces for Office 365, Salesforce.com etc.

The diagram illustrates the central role of Azure Active Directory in managing various web-based services. At the center is a circle labeled 'Azure Active Directory'. Surrounding it are several other services, each in a white circle with a dashed line connecting it to the central hub. These services include Office 365, Google Apps, SAP SuccessFactors, myday, SAP Concur, workday, SAP Business One, Salesforce, Blackboard, Canvas, and Workplace by Flexiana. The background is a light wood-grain texture.

CR CR RJ M MR M MM YR NY M SK Shiv Goutham Kumar Shiv Johnny Basha

The screenshot shows the Microsoft Azure portal interface for the Default Directory. The page title is "Default Directory | Overview" under "Azure Active Directory". There is a search bar and navigation options like "Switch tenant", "Delete tenant", "Create a tenant", "What's new", and "Got feedback?". The main content area shows "Overview" for "Default Directory" with details like "Your role: Global administrator" and "Azure AD Free". A section for "Azure AD Connect" shows "Status: Not enabled" and "Last sync: Sync has never run". On the right, there's a user profile for "Hemant Kumar P..." and a "Find" search box. The bottom of the screen shows a Windows taskbar with various application icons and a meeting control bar with participant avatars.

CR CR RJ M MR M MM KS NY YR SK Shiv Goutham Kumar Shiv Johnny Basha

Date: 30/05/2020

Valedictory Session:

On the Valedictory Session, **our Principal, Dr. K. Appa Rao**, joined the session as a Chief Guest along with **Dr. D. Veeraiah, Professor and HOD, CSE Department and Convener of STTP, Mr. Kumar Potluri, Associate Technical Lead, Prokarma Softech and Mr. Shaik Johny Basha, Assistant Professor, CSE Department and Coordinator of STTP.**

Dr. K. Appa Rao, Principal, LBRCE(A), in his valedictory addressing, thanked every participant of STTP and our Resource Person, Mr. Kumar Potluri for taking his 6 days of time to our STTP. Also congratulated the Program Convener Dr. D. Veeraiah and Coordinator Mr. Shaik Johny Basha for organizing the STTP in a successful manner. Further, he appreciated all the Teaching and Non-Teaching Staff Members of CSE Department for promoting such kind of development programme for the student and faculties. He also motivated the students, researchers and faculties about how to keep learning new technologies coming in future for their personal career growth as well as organizational growth.

At the end of the valedictory session, vote of thanks was given by Mr. Ch. Srinivasa Rao, Coordinator of the STTP in which he has been paid his gratitude towards all the participants who has spared their valuable time for attending this STTP. He also expressed the gratitude to the Resource Person, Mr. Kumar Potluri for giving his valuable time for our participants and sharing his knowledge to them.


Nevertheless, he has given thanks to our Principal, Dr. K. Appa Rao and Dr. D. Veeraiah, HOD, CSE Department, “We are highly thankful to the Principal and Head of the Department for giving a chance to organize this STTP in our campus and hope we will find the support in future also for organizing such kind of activities.”




The image is a screenshot of a Zoom meeting slide. At the top left is the logo of Lakireddy Bali Reddy College of Engineering (LBRCE(A)), which is an autonomous institution. The text on the slide reads: **LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)**, Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME), Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada, L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India. The main title is **Valedictory of "A One Week Online STTP" on "Microsoft Azure" from 25/05/2020 to 30/05/2020**. Below this, it says **Thanks to our Resource Person: Mr. Kumar. P, Prokrama Softech, Hyderabad**, **Thanks to our HOD & Convener: Dr. D. Veeraiah**, and **Special thanks to our Principal: Dr. K. Appa Rao**. At the bottom left, it says **Organized by: Department of CSE** and **Date: 30/05/2020**. At the bottom right, under **Coordinators:**, it lists: 1) Mr. Shaik Johny Basha, 2) Mr. P. Vamsi Naidu, 3) Mr. Ch. Srinivasa Rao. The bottom of the slide shows a row of circular icons for participants, with the last one labeled 'KP' and a small video thumbnail showing three people.

Feedback from the Participants:

The feedback of the participants was very positive and motivational for the organizers. The participants felt very happy for conducting the STTP on latest trends in Research as well as Industry. They have learned a lot on Microsoft Azure in both theoretical and practical manner. They said that, this program was very useful and helpful for them in their research work and guiding the projects to the students. All the participants appreciated the sessions by our Resource Person and the arrangements made by the organizers.


Coordinator
(Mr. Sk. Johny Basha)


Convener
(Dr. D. Veeraiah)


Principal
(Dr. K. Appa Rao)