Department: CSSE | Dates: 14th – 19th December 2020
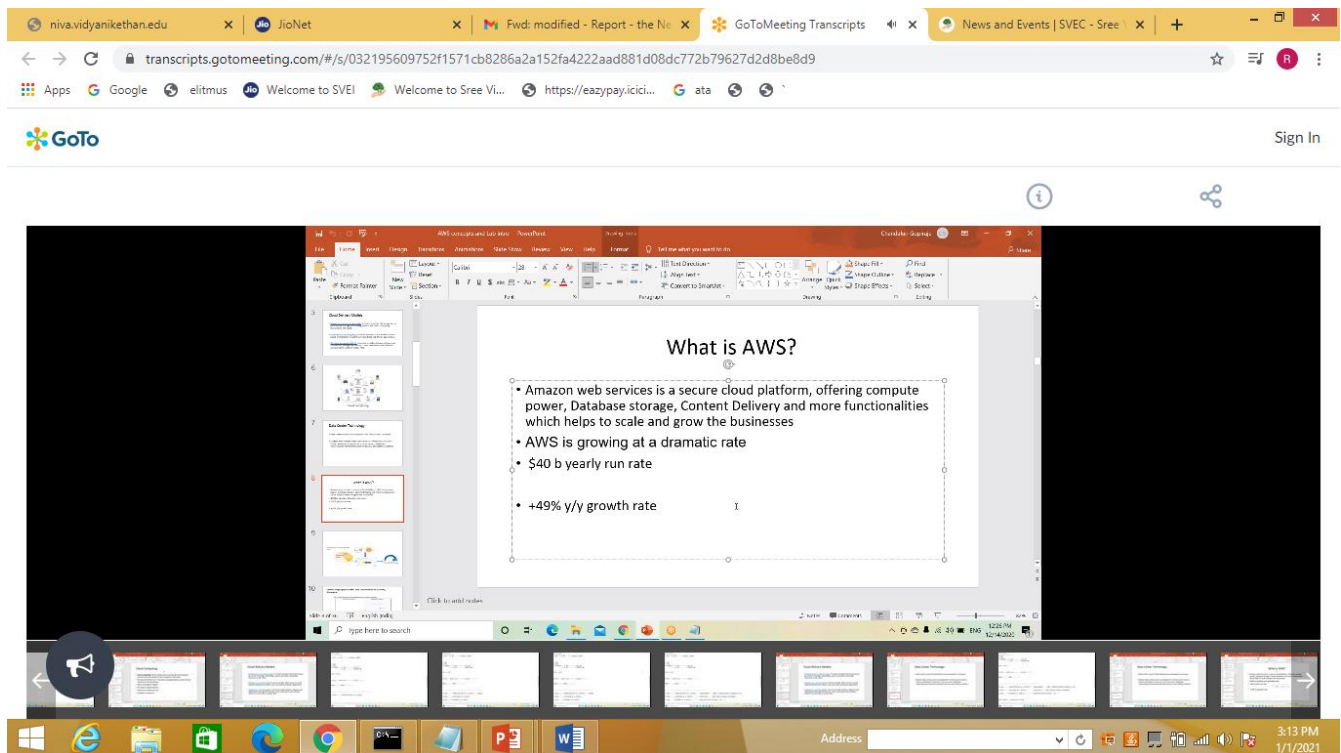
Workshop on"Amazon Web Services"
14th – 19th December 2020

Department of Computer Science and Systems Engineering organized an online Workshop on "**Amazon Web Services**" in association with APSSDC for non-teaching staff during December 14-19, 2020 at Sree Vidyanikethan Engineering College, A. Rangampet. About 28 non-teaching staff are actively participated and gained useful information from all the sessions.

Day 1:

Dr. D. R.Kumar Raja,AssociateProfessor of CSSE, SVEC welcomed the resource person Mr. Ch Gopi Raju, Senior trainer of APSSDC.

Mr.C Gopi Raju giving live demonstrations to the participants

Mr. Ch Gopi Raju briefed about the "Importance of AWS" in all the cloud services and special features with introduction to cloud computing. He discussed the key benefits of cloud computing which provides the opportunity to replace upfront capital infrastructure expenses with low variable costs that scale with one business needs. He explained variety of services provided by AWS like Compute, Storage, Database, Migration, Network and Content Delivery Management Tools, Security & Identity Compliance Messaging.

Day 2:

Mr. Ch Gopi Raju explained the procedure to set up an account with Amazon AWS. Participants did hands–on by following the live demonstration on speaker in setting account in Amazon AWS and learned the core functionality of Amazon AWS. Participants created windows and linux desktop environments using sample EC2 instance.

Participants are executing instances by following speaker's instructions

Day 3:

Mr. Ch Gopi Raju delivered the Amazon AWS storage services like Simple Storage Service (S3), Elastic Block Storage (EBS), Elastic File System (EFS), Amazon FSx for Lustre, Amazon S3 Glacier, Amazon FSx for Windows File Server, and AWS Storage Gateway where one can go with one or more of these storage services to achieve business goals.

Day 4:

Mr.Ch Gopi Raju discussed the process of utilizing the AWS load balancer support for creating the load balancing clusters to provide high available services based on round robin and customize rules with header content. Resource person gave live demonstration on how to create application load balancer to distribute http requests to target groups with instances.

Day 5:

Mr.Ch Gopi Raju explained the AWS Auto Scaling which monitors applications and it will automatically adjust capacity to maintain steady, predictable performance at the lowest possible cost. He gave live demo on how to set up application scaling for multiple resources across multiple services in minutes and this service provides a simple, powerful user interface that lets user to build scaling plans for resources including Amazon EC2 instances and Spot Fleets, Amazon ECS tasks, Amazon DynamoDB tables and indexes, and Amazon Aurora Replicas.

Participants during Hands-on training

Day 6:

Mr.Ch Gopi Raju discussed the Amazon Relational Database Service (Amazon RDS) which is a web service that makes it easier to set up, operate, and scale a relational database in the AWS Cloud. It provides cost-efficient, resizable capacity for an industry-standard relational database and manages common database administration tasks. Resource person also explained the database snapshots which are user-initiated backups of the instance stored in Amazon S3 that are kept until the user explicitly delete them.

At the end, the programme was concluded with a vote of thanks by Mr.M.Ramu, Assistant Professor of CSSE. Dr.D.R. Kumar Raja Associate professor and Mr. M.Ramu Assistant professor of CSSE were the coordinators of the Workshop.