CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY

Department of Computer Engineering and Information Technology

A REPORT ON

Two Week Faculty Development Program

On

"Practicing and Developing Cloud with Amazon Web Services",

26th September - 10th October, 2020

Organizing Department	Department of Computer Engineering and Information Technology
Chief Patron	Dr. D. R. Shah
Patron	Dr. R.V. Patil
Convener	Mr. Devendra Thakor, Ms. Palak Desai
Coordinators	Mr. Achyut Sakadasariya Mr. Dipak Dabhi
Target Audience	Faculty members
Total Number of Participants	27
Date of Programme	26th September - 10th October, 2020
Invited Speakers	Mr. Sandip Patel, Assistant Professor CSPIT, Charusat University, AWS Academy Accredited Instructor Mr. Parth Shah, Associate Professor CSPIT, Charusat University

SCHEDULE:

Date	Session	Time	Topics
26-09-2020 (Saturday)	Session-1	02:00 PM to 04:30 PM	Introduction of AWS console
			Overview of AWS Core services
			Deep dive into IAM with hands-on
			DEMO: Introduction to AWS Identity and Access
28-09-2020 (Monday)	Session-2	02:00 PM to 04:30 PM	EC2 Overview
			DEMO 1: Create an EC2 instance and host website
			DEMO 2: Create an image of EC2 instance and
29-09-2020 (Tuesday)	Session-3	02:00 PM to 04:30 PM	S3 overview (Versioning, Life cycle, Static Website hosting, Access Control, Security & Encryption)
			DEMO 1: Create an AWS S3 bucket and upload a file
			DEMO 2: Host Static website using s3
			EBS & EFS overview
			Comparison of all EBS type
			DEMO: Create a snapshot and mount EBS volume
30-09-2020 (Wednesday)	Session-4	02:00 PM to 04:30 PM	EC2 windows server
			EBS comparison
			Basics of load balancer
			Classic load balancer & Network load balancer with demo
			Basics of auto scaling with demo
01-10-2020 (Thursday)	Session-5	02:00 PM to 04:30 PM	Application load balancer overview
			Application load balancer hands-on
			Auto scaling with application load balancer demo
03-10-2020	Session-6	02:00 PM to	Introduction about Virtual Private Cloud

(Saturday)		04:30 PM	Demo of VPC
07-10-2020 (Wednesday)	Session-7	02:00 PM to 04:30 PM	Deep dive into Virtual Private Cloud
			Overview of VPC peering
			Demo of VPC peering
			Perform hands-on of EFS
08-10-2020 (Thursday)	Session-8	02:00 PM to 04:30 PM	Quiz -1 & doubt solving
			Introduction about Database
			Deepdive into RDS
			Demo : Create database server and access using workbench
			Overview of RDS features like Multi AZ and Read
09-10-2020 (Friday)	Session-9	10:00 AM to 12:30 PM	Introduction about NO-SQL database dynamoDB
			Demo: Create dynamodb database and explore its functionality in details
		12:30 PM to 02:00 PM	Lunch Break
	Session-10	02:00 PM to 04:30 PM	Introduction about Machine learning services like polly and Rekognition
			Introduction about cloudfront and Route53
			Perform hands on of Cloudfront
10-10-2020 (Saturday)	Session-11	10:00 AM to 12:30 PM	Introduction about AWS Lambda
			Demo: Create 2 types of Lambda function
			SNS & SQS overview
			Demo: Integrate both the service with AWS
		12:30 PM to 02:00 PM	Lunch Break
	Session-12	02:00 PM to 04:30 PM	Cloud Formation (Create Stack, Update Stack, Delete stack)
			Project Discussion + Quiz
			Doubt Solving Session and Exam Tips

DETAILS OF THE FDP:

The Faculty Development program started with aninauguration function at K-102, Engineering Lab. Dr. Devendra Thakor, HoD, CE Department of CGPIT present to grace the function. Dr. Devendra Thakor formally welcomes all participants and briefed regarding the faculty development program. He motivated participants to involve actively in the FDP. Then the session started at scheduled time. Details of the same are as follows:

Session 1-7 and 10-12 :

Expert of the session: Mr. Sandip Patel, Assistant Professor, CSPIT, CHARUSAT University, AWS Academy Accredited Instructor.

Mr. Sandip Patel has given basic introduction about clod computing. He has also explained the basic architecture of cloud infrastructure. He also explored different Amazon Web Services with live demonstration. The session was followed by hands on EC2, IAM Policy, S3 Bucket, Website Hosting, Route53, Auto Scaling, Supnet, VPC, CloudFront, AWS Lambda etc.

He had shown how to access and use AWS services for your application specific use. It also includes how this services provide you best computing capacity instead of on-premises computing center.

Session 8 and 9:

Expert of the session: Dr. Parth Shah, Associate Professor, CHARUSAT, Changa.

Dr. Parth Shah has given introduction about fundamentals of Relational database sysstem in amazon web services. The session also includes how we can configure RDS using aws plateform for our application and give live demontration of it. He also includes the how cloudformation will help to build our cloud infrastructure requirement within minute. He also demonstrates the cloudformation process.

GLIMPSE OF THE FDP:

Feedback for Mr. Sandip Patel	Feedback for Dr. Parth Shah	FDP Content and Hands-on	Any Suggestions for the upcoming program
Domain expertise was good. it was upto the expectations.	Content delivery was good. Good clarity of concepts	5	It was satisfactory.
Informative and fruitful sessions	Good	5	
He carried out a very good session through live demo. Good in depth knowledge	Good conceptual knowledge	5	Nil
Too good at explaining even minute details of Cloud. Very enthusiastic.	Very good explanation.	5	
Each and every session are Good. Also he is always their to solve our errors occurs during the session.	Good	5	Nothing
Excellent	Excellent	5	
Very Informative Sessions.	-	5	-
Excellent knowledge. Solved many doubts.	Good experience	5	Interested to attend other FDP in future
Thank you so much sir for sharing your knowledge with us, we have explored a lot many things and you explained really well sir.	Really good session and you have explained from the basic so thank you so much sir for that.	4	
The hands on session delivered by sir was very useful and overall very great experience with you sir. I hope in future also you will be there for us. Your depth of work was commendable.	The content delivered by sir was very fruitful and also the services explained by sir was best. very well explained.	5	
Nicely delivered all sessions with practical	V.Good	5	
As i am beginner on AWS, this FDP help me lot to understand the different services of AWS platform. Your knowledge in this field is excellent and way of representation specially hands-on session is amazing. after this FDP i am able to perform different services of AWS. you solve our every query raise by participants and guide us. Thank you for your valuable suggestions.	Your session is very much helpful to work with AWS database service with compute engine. Also the CloudFormation session is very much essential now a days, now we are able to work on cloudformation using script and template. Thank you sir for sharing your knowledge with us.	5	In future, this type of the event must be compulsory for all faculty member, because cloud is now day very common and all faculty must have basic understanding of this domain. and if possible, schedule full day session instead of half-day because it will help to go in depth with hands-on session.
Excellent way of explaining	Over all good	5	
It was interactive and effective sessions conducted by Mr. Sandip Patel. He solved all the queries raised by the participants.	It was good session.	5	There are scope of improvement.
Good knowledge and nice person	Helpful	4	Plan for full day FDP
Nicely covered all the concepts.	Average	4	
All Good	All Good	5	None

FDP Content and Hands-on

17 responses
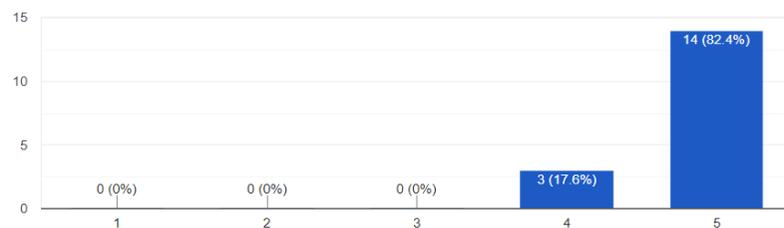
Department

17 responses

- Information Technology
- Computer Engineering
- SRIMCA
- BMIIT
- Computer Science
- Computer Application