

CMR Institute of Technology, Bangalore			
Department(s): Information Science & Engineering			
Semester: 06	Section: A,B,C	Lectures/week: 03	
Subject: Cloud Computing & Security		Code: BIS613D	
Course Instructor(s): Dr. Srividya R			
Course duration: JAN 2026 – MAY 2026			

Assignment-1 (Project Based)				
Issue Date: 05/02/2026			Submission Date: 24/04/2026	
SET - 1				
Q.No	Questions	Marks	CO	Blooms Level
1	Creating a Virtual Machine: Configure and deploy a virtual machine with specific CPU and memory requirements in Google Cloud	10	CO4	L3
2	Create and deploy a Cloud Function to automate a specific task based on a Cloud Storage event.	10	CO4	L4
3	Automate an Application Deployment Using a CI/CD Pipeline	10	CO3	L3
4	Discover the use of gcloud commands to manage Google Cloud resources from Cloud Shell.	10	CO5	L4
5	Working with Amazon S3 Orchestrating Serverless Functions with AWS Step Functions	10	CO5	L3
SET - 2				
1	Discover how Cloud Monitoring help in tracking and analyzing the performance and health of cloud resources	10	CO2	L3
2	Deploy a web application on App Engine with automatic scaling enabled.	10	CO3	L3
3	Deploy a web application on App Engine working with automatic scaling enabled.	10	CO4	L3
4	Deploy a Google Cloud Storage which provides scalable and secure object storage for managing data, accessible via the Cloud Console or gsutil CLI.	10	CO5	L2
5	Developing REST APIs with Amazon API Gateway.	10	CO2	L2
SET - 3				
1	Explore benefits of using multiple VPC networks in Google Cloud for organizing and isolating resources.	10	CO3	L3
2	Discover how Google Cloud SQL for MySQL provide automated management and high availability for MySQL databases?	10	CO4	L3
3	Develop an application Migrating a Web to Docker Containers.	10	CO3	L3
4	Create an application to explore Google Cloud Pub/Sub facilitate real-time messaging and communication between distributed applications.	10	CO2	L4
5	Implement Caching Application Data with ElastiCache, Caching with Amazon CloudFront, Caching Strategies.	10	CO5	L3

Course Instructor Signature/s	CCI Signature	HOD
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