

MODULE 1: OVERVIEW CLOUD & GOOGLE CLOUD PLATFORM

- 1: CLOUD OVERVIEW & CHARACTERISTICS
- 2: CLOUD SERVICE MODEL (IAAS, PAAS, SAAS)
- 3: CLOUD DEPLOYMENT MODEL (PUBLIC, PRIVATE, HYBRID)
- 4: GOOGLE CLOUD PLATFORM (GCP) INFRASTRUCTURE OVERVIEW
- 5: CREATE GCP ACCOUNT & CONSOLE OVERVIEW
- 6: ORGANIZATIONS, FOLDERS, PROJECT, RESOURCES & BILLING
- 7: GOOGLE CLOUD ARCHITECTURE FRAMEWORK

MODULE 2: VIRTUAL MACHINES

- 1: COMPUTE ENGINE (VM): TYPES & OPTIONS
- 2: VM INSTANCE LIFECYCLE & COMMON OPERATIONS
- 3: MACHINE TYPES & COMPUTE OPTIONS (VCPU AND MEMORY) IN COMPUTE ENGINE
- 4: IMAGES & SNAPSHOTS
- 5: DISK TYPES: LOCAL SSD, PERSISTENT & BALANCED

MODULE 3: VIRTUAL NETWORKS

- 1: VIRTUAL PRIVATE CLOUD (VPC) & TYPES, SUBNETS
- 2: IP ADDRESSES (PUBLIC/PRIVATE), NIC
- 3: ROUTES & ROUTE TABLE
- 4: FIREWALLS
- 5: NETWORK TOPOLOGY OPTIONS

MODULE 4: CLOUD IAM

- 1: IAM BASIC: AUTHENTICATION, AUTHORIZATION & MFA
- 2: ROLES, MEMBERS, SERVICE ACCOUNT, POLICY
- 3: RESOURCE HIERARCHY
- 4: CLOUD IAM BEST PRACTICES

MODULE 5: DATA STORAGE SERVICES

- 1: GOOGLE CLOUD STORAGE OVERVIEW & STRUCTURE
- 2: STORAGE CLASSES, VERSIONING & LIFECYCLE POLICIES
- 3: CLOUD SQL FOR DATABASE (MYSQL, POSTGRESQL AND SQL SERVER)
- 4: CLOUD SPANNER: FULLY MANAGED RELATIONAL DB

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- 5: CLOUD DATASTORE
 - 6: CLOUD BIGTABLE: NOSQL BIG DATA SERVICE

MODULE 6: APP ENGINE, FUNCTIONS, CLOUD RUN

- 1: APP ENGINE: SERVERLESS WEB APPS
- 2: APP ENGINE ENVIRONMENTS: STANDARD VS FLEXIBLE
- 3: CLOUD FUNCTIONS: EVENTS & TRIGGERS
- 4: CLOUD RUN: SERVERLESS CONTAINERS

MODULE 7: RESOURCE MANAGEMENT

- 1: CLOUD RESOURCE MANAGER OVERVIEW
- 2: QUOTAS, LABELS, NAMES & BILLING

MODULE 8: RESOURCE MONITORING

- 1: STACKDRIVER: CLOUD MONITORING & LOGGING
- 2: LOGGING, ERROR REPORTING, TRACING, DEBUGGING

MODULE 9: INTERCONNECTING NETWORKS

- 1: VIRTUAL PRIVATE NETWORK (VPN) & ITS TYPES
- 2: VPC PEERING (PUBLIC & PRIVATE)
- 3: CLOUD DNS , CLOUD INTERCONNECT & CLOUD ROUTER

MODULE 10: LOAD BALANCING & AUTOSCALING

- 1: LOAD BALANCING TYPES: INTERNAL, EXTERNAL, GLOBAL & REGIONAL
 - 2: HTTPS, NETWORK, SSL & TCP LOAD BALANCERS
 - 3: CROSS-REGION AND CONTENT-BASED LOAD BALANCING
 - 4: AUTOSCALING POLICIES & CONFIGURATION
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MODULE 11 GOOGLE KUBERNETES ENGINE

- 1: MICROSERVICES, CONTAINERS, DOCKER & KUBERNETES
- 2: GCP KUBERNETES ENGINE (GKE), UNDERSTAND THE RELATIONSHIP BETWEEN KUBERNETES AND GOOGLE KUBERNETES ENGINE (GKE)
- 3: KUBERNETES ARCHITECTURE : CLUSTERS, NODE, NODE POOLS, PODS, SERVICES
- 4: DEPLOY & MANAGE WORKLOADS ON GKE

MODULE 12: MAINTENANCE & MONITORING

- 1: CAPACITY PLANNING AND COST OPTIMIZATION
- 2: DEPLOYMENT, MONITORING AND ALERTING, AND INCIDENT RESPONSE
- 3: MONITORING AND ALERTING

MODULE 13: CLOUD MIGRATIONS

- 1: UNDERSTANDING MIGRATION USED CASES
- 2: UNDERSTANDING MIGRATION TOOLS AND PROCESS
- 3: MIGRATING GOOGLE INSTANCE TO AWS

Thank You