



Complete Java Classes

A Cognizance of Excellence

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Cloud Computing

- What is Cloud Computing?
 - Benefit of cloud computing
 - Overview of IAAS, PAAS, SAAS
 - Types Of Cloud private, public & hybrid
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Amazon Web Services (AWS)

- Introduction
- Introduction to Amazon Webservices – Services Overview and AWS Infrastructure overview.
- Preparatory Topics – Virtualization, Networking and Storage concepts.
- AWS Management Console and AWS Account.
- Amazon EC2
- Amazon EBS
- Amazon VPC
- Hands-on activity: Creating a VPC, Creating instances (VMs) on EC2 and configuring all necessary services, attaching EBS volumes, Elastic IPs, etc.



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- Overview – Object Storage, file shares and their use cases.
- Amazon S3, Glacier, (File Share Service), CloudFront.
- Amazon Cloudwatch – Monitoring service.
- Hands-on activity: Creating S3 buckets, putting and getting objects from S3, hosting a static website on S3.
- Amazon ELB.
- Amazon Auto-scaling
- Hands-on activity – configuration of auto-scaling rules and using them to automatically scale EC2 instances.
- AWS Database services overview
- Hands-on activity – creating RDS instances, configuring Multi-AZ failover, accessing a database hosted on RDS.
- AWS IAM overview
- WS Devops services overview
- Hands-on activity – Configuring a Git repository on Codecommit and working with the repository.
- Brief introduction to Infrastructure
- AWS Services Overview



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- Hands-on activity – creating and working with cloudformation templates and deploying a Stack using them.
 - AWS Services Overview – Application Services
 - Architecting with AWS
 - High Availability Design, Backup and DR.
 - Cost Estimation using Simple Monthly Calculator.
 - Hands-on Activity – configuring Simple Email Service (SES).
 - Brief introduction to Hadoop and Big-Data.
 - AWS Service Overview – Elastic Mapreduce (EMR).
 - Q&A session for all previously covered topics, preparation tips for AWS SA-Associate Level Certification exam.
 - Hands-on workshop/Project: Deploying a 3-tier web-application using AWS services.
 - Bonus: Brief introduction to Vagrant and Chef.
 - Hands-on workshop/Project: Automated deployment of Test/Dev environments using Vagrant, Chef and AWS.
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Microsoft Azure

- Introduction to Azure
 - Azure Hosting Models
 - Azure Services
 - Subscribing to Microsoft Azure
 - Azure Portals
 - Azure Resource Group
 - Installing Microsoft Azure SDK
 - App Types
 - Deploying Web App directly from Visual Studio
 - Monitoring, Debugging and Diagnosis
 - Comparing SQL Azure Database to Azure / OnPremise SQL Server
 - Creating and Using SQL Server and SQL Database
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➤ Azure SQL Database Tools

➤ About Azure Storage ➤ REST API

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- Working with Storage Tables
 - Working with Azure Queues

➤ Azure Service Bus

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- Service Bus Basics
 - Hosting WCF Service in Azure
 - Relayed Messaging
 - Service Bus Queues
 - Topics and Subscriptions

➤ Azure IAAS Virtual Machine

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- Introduction
 - Comparing VM with Web Apps and Cloud Services
 - Create a Windows Virtual Machine using Portal / PowerShell
 - Understanding and Capture VM Images
 - Deploy a New VM Instance from the captured Image
 - Deploy popular application frameworks by using Azure Resource Manager templates
 - Understanding and Creating Availability Sets.
 - Load Balancing between multiple Virtual machines