



CLOUD COMPUTING (GCE) [2 Days]

- Creating GC Account
- Cloud Features & Creating Instances
- Working with Network
- Working with Firewall

LINUX [6 Days]

- Introduction to Linux OS
- CentOS Installation
- File and Directory Management
- Text Editor
- Links
- Utility Commands
- Archives & Backups
- User & Group Management
- File Security & Permissions
- Package & Service Management
- LAMP [3 Days]
- Introduction & Installation Apache
- Working with Apache
- MySQL DB Installation
- Working with MySQL
- Setting up CMS Wordpress

GIT [4 Days]

- What is Git
- Installing Git
- Getting started
- Git Architecture
- Making changes to file
- Using git with real project
- Undoing changes
- Ignoring files
- Navigating tree commit
- Branching
- Merging Branches
- Stashing Changes
- Remotes

MAVEN [3 Days]

- Introduction to Maven
- Maven Structure
- Maven Installation
- Maven Hands-on
- NEXUS [2 Days]
- Introduction to Nexus
- Nexus Installation
- Creating Repos
- Pushing the generated war to Nexus

JENKINS [5 Days]

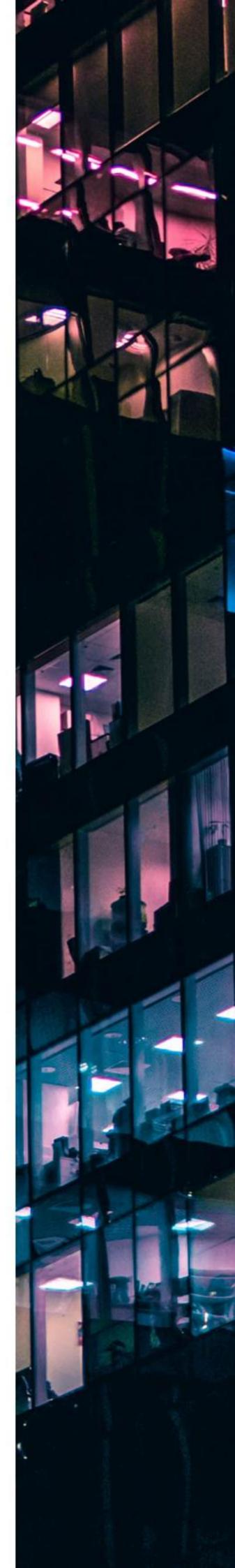
- Overview of Jenkins
- Getting Started with Jenkins
- Plugins and its uses
- Setting Up Your Build Jobs
- Setting up Build Jobs and Security
- Implementing Automated Testing
- Using Metrics to Improve Quality
- Nodes and Master-Slave Configuration
- Plugins and its uses
- Performing Automated Deployment and Continuous Delivery

CHEF [6 Days]

- Introduction to Configuration Management
- Chef User management
- Chef Organization management
- Chef Distribution Kit
- Chef Workstation setup
- Chef Resources
- Chef Recipes
- Chef Cookbooks
- Chef Attributes
- Chef Supermarket
- Chef Databags

NAGIOS [2 Days]

- Introduction to Nagios
- Concepts behind Nagios
- Nagios Installation
- Hands-on
- Vagrant [2 Days]
- Introduction to vagrant
- Vagrant Terminologies
- Vagrant System & Commands
- Vagrant Plugins & Provisions





DOCKER[3 Days]

- Introduction to Docker
- Installation of Docker
- Data and Docker Volumes
- Docker Architecture
- Container life cycle
- Networking with docker
- Working with docker images
- Building images with docker files

Project [5 Days]

Implementing Continuous Integration with JAVA based web application.

- Git Integration
- Maven Integration
- Junit Integration
- Test Cases Report Generation
- Cobertura Code Coverage & Report Generation
- Sonarqube Static Analysis
- Nexus Artifact Upload
- Auto Deployment [Tomcat]
- Performance Testing [Jmeter]
- Continuous Feedback [Notifications]



Course Introduction Getting Started

- Welcome to the AWS Course
- What is a Solutions Architect
- Features of the Course

AWS Organization AWS Account & Physical Organization

- A Look at the AWS Account and Services Layer
- A Look at the AWS Physical and Networking Layer
- Essential CSA Terminology
- Quiz

Access Management

- AWS IAM (Identity & Access Management)
- AWS IAM (Essentials, Policies & Users)
- AWS IAM (Groups and Roles)
- AWS IAM Security Token Service (STS)
- AWS IAM API Keys
- Quiz

The AWS Console

· A look at the AWS Console

Introduction to AWS Networking

- VPC Essentials
- VPC Network Routing Basics
- VPC Security Basics
- Lab: Building a VPC from Scratch
- Quiz

Server Based Compute Services EC2 (Elastic Compute Cloud)

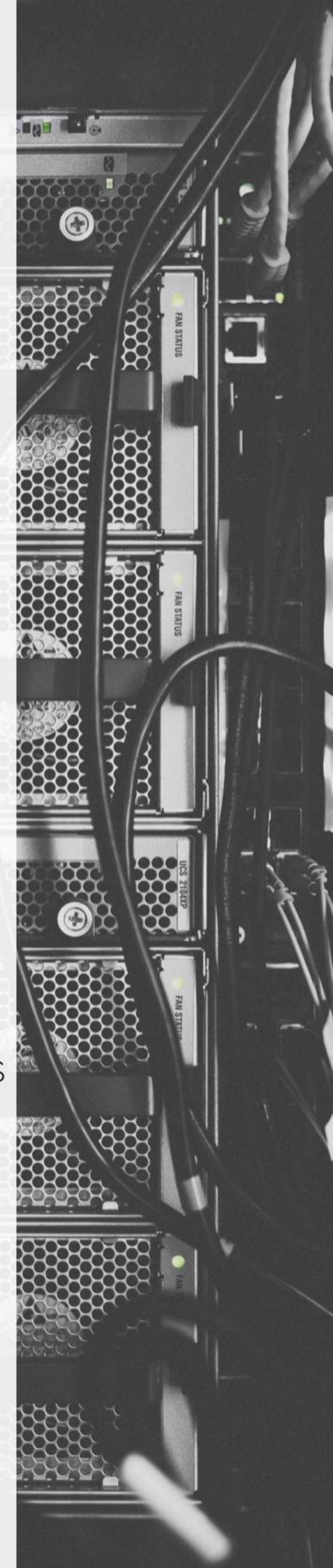
- EC2 Essentials
- EC2 Purchasing Options
- EC2 AMIs and Virtualization
- EC2 Instance Types
- Public, Private and Elastic IP Addresses
- EC2 Bootstrapping, User-Data and Meta-Data
- EC2 Storage Options
- EC2 Security Groups
- Key-Pair and Connecting to an EC2 instance
- EC2 and Networking
- EBS Snapshots
- EC2 Placement Groups
- Elastic File System (EFS)
- Lab: Provisioning an EC2 Instance
- Lab: EC2 Backup Solutions with AMIs and Snapshots
- Lab: Accessing Instances User Data and Metadata
- Quiz

Serverless-Based Compute Services

Lambda Essentials

Introduction to Some other important Services

- Introduction to CloudWatch, CloudTrail and SNS
- Advanced Networking
- Highly Available & Fault Tolerant VPC Networking
 - Auto Scaling and Elastic Load Balancing Essentials
 - Classis vs Application Elastic Load Balancers
 - Creating an Application ELB
 - Lab: Setting up a Classic ELB and Auto Scaling Group
 - Quiz

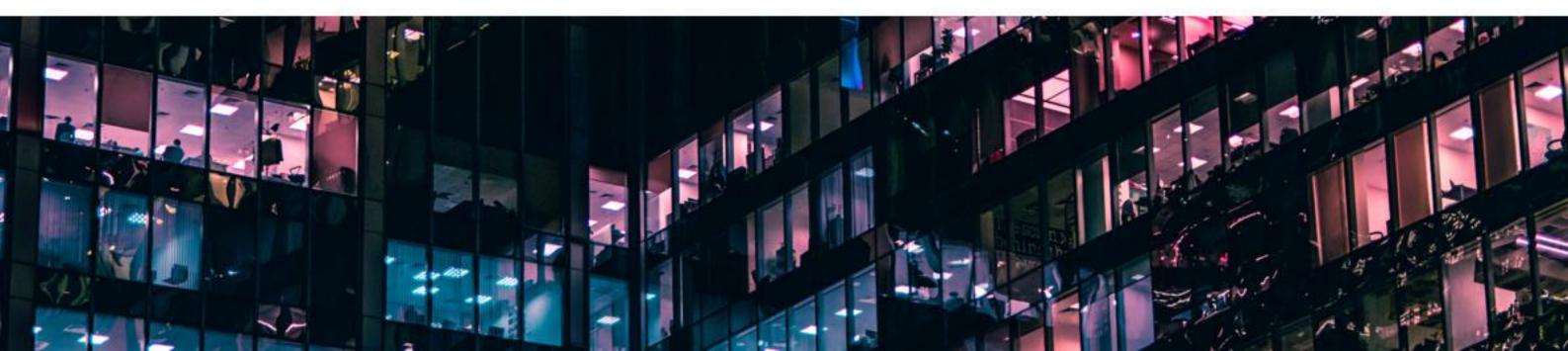


- Advanced VPC Networking for Increased Security
 - Serving Traffic to and from Private Servers
 - Lab: Building a More Secure Application with a Bastion Host and NAT Gateway
 - Quiz
- Network Connectivity Troubleshooting
 - EC2 Troubleshooting Scenarios
 - VPC Troubleshooting Scenarios
 - ELB Troubleshooting Scenarios
 - Auto Scaling Troubleshooting Scenarios
 - Lab: Troubleshooting Connectivity Issues Session 1
 - Lab: Troubleshooting Connectivity Issues Session 2
 - Lab: Troubleshooting Connectivity Issues Session 3
 - Quiz

Storage Services S3 (Simple Storage Service)

- S3 Essentials
- S3 Permissions
- S3 Storage Classes
- Object Versioning
- S3 Lifecycle Policies
- S3 Events
- Website Hosting with S3
- Cross-Origin Resource Sharing (CORS)
- Getting Data Into and Out of S3
- Lab: Using S3 for Static Web-Hosting
- Lab: Configure Backup and Archiving Solutions in S3
- Quiz

The AWS CLI Install and Configure the AWS CLI





Hybrid Environments

- Advanced DNS, CDN, and Failover Networking
 - Route 53 Essentials
 - Route 53 DNS Failover
 - CloudFront Essentials
 - Performance Considerations with CLoudFront
 - Lab: Configuring Route53 DNS Record Sets
 - Lab: Configuring a CloudFront Distribution
 - Quiz
- Hybrid Environments & VPC Peering
 - Virtual Private Network (VPN)
 - AWS Direct Connect
 - AWS Storage Gateway
 - VPC Peering
 - Lab: VPC Peering
 - Quiz

Database Services

- RDS (Relational Database Service)
 - RDS Essentials
 - Lab: Create and Configure an RDS DB with Backup Solutions
- DynamoDB Essentials
- ElastiCache Essentials
- Redshift Essentials
- Quiz

Application & Messaging Services

- SNS (Simple Notification Service) Essentials
 - Lab: Create & Use an SNS Topic with an S3 Event
- SQS (Simple Queue Service) Essentials
 - Using SQS to build Decoupled Application Architectures
- SWF (Simple Workflow Service) Essentials
- API Gateway Essentials
- Quiz

Monitoring

- CloudWatch Essentials
- CloudTrail Essentials
- Flow Logs
- VPC Flow Logs Essentials & Creation
- Quiz

Deployment Services

- CloudFormation Essentials
 - Lab: Creating an S3 Bucket with CloudFormation
- Elastic Beanstalk Essentials
 - Lab: Deploying a Simple Web Application with Elastic Beanstalk
- Quiz

Analytics

- Kinesis Essentials
 - Kinesis Workflow, Producers and Consumers
- Elastic MapReduce
 - EMR Essentials
- Quiz

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- Container Services
- EC2 Container Service (ECS) Essentials
- Quiz

Certified Solution Architect Concepts

- Implementation & Deployment
 - How to Design Cloud Services and Best Practices
 - Monitoring your AWS Environment
 - Architectural Trade-Off Decisions
 - Elasticity and Scalability
- Security Architecture with AWS
 - Shared Security Responsibility Model and Attributes
 - AWS Platform Compliance and Security Services
 - Incorporating Common Conventional Security Products
 - DDoS Mitigation
 - Encryption Solutions
 - Complex Access Controls
 - Amazon CloudWatch for Security
 - CloudHSM
- Disaster Recovery
- Quiz: Concepts of Architecting





Course Introduction

Module 1: Getting Started with Microsoft Azure

What is cloud computing?

What is Azure?

Managing Azure

Subscription management, support, and billing

Lab: Using the Azure portals

Customizing the Azure portal interface

Viewing billing, usage, and quotas data

Module 2: Microsoft Azure management tools

What is Azure PowerShell

The Azure SDK and the Azure CLI

Lab: Using Microsoft Azure management tools

Using the Azure PowerShell modules

Use the Azure CLI

Module 3: Virtual machines in Microsoft Azure

Creating and configuring VMs

Configure disks

Lab: Creating a VM in Azure

Create a VM from the Azure Portal by using an Azure Marketplace image

Verify the functionality of the VM

Configure storage of a VM

Module 4: Web Apps and cloud services

Creating and configuring web apps

Deploying and monitoring web apps

Creating and deploying PaaS cloud services

Lab: Web Apps and cloud services

Creating and configuring a WordPress web app

Create a cloud service

Module 5: Creating and configuring virtual network

Getting started with virtual networks
Creating a virtual network
Getting started with Azure Load Balancers
Lab : Create a virtual network
Creating a virtual network
Verifying virtual network functionality

Module 6: Cloud storage

Understanding cloud storage
Create and manage storage
Lab : Configure Azure Storage
Create an Azure Storage account
Create and manage blobs

IModule 7: Microsoft Azure databases

Understanding options for relational database deployment

Creating and connecting to Azure SQL databases

Lab : Creating a SQL Database in Azure

Create a new Azure SQL database in Azure and configure SQL Server

firewall rules

Manage content of an Azure SQL database by using SQL Server

Management Studio

Module 8: Creating and managing Azure AD

Overview of Azure AD

Manage Azure AD authentication

Lab: Create users in Azure Active Directory tenants

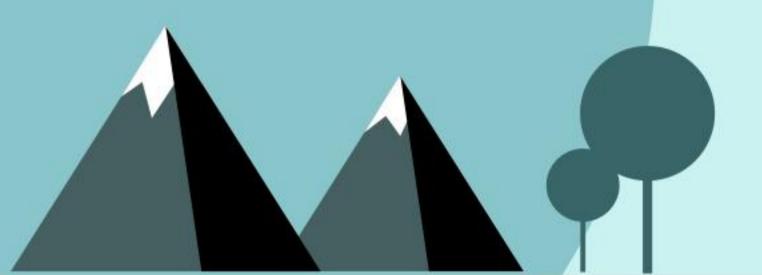
Create users in Azure AD

Create a new Azure AD Tenant and a custom DNS domain



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