



AWS Certified Cloud Practitioner Course

The basics of building IT infrastructure on the AWS platform are addressed by the AWS course. In AWS Cloud, applicants learn how to progress by acquiring awareness of how AWS services integrate into cloud-based solutions. Applicants for Amazon Web Service Certification need to pass evaluations conducted by the public cloud provider to receive Amazon Web Service Certification. IT specialists verify and recognize their expertise and knowledge relevant to AWS through AWS certification.

About the training

- **Study Material:-** Live lectures, Streaming Recorded Videos, Online Lab Workbook, and Remote Lab access.
- **Duration:-** 1 Month

What you will learn

- You will learn the deep concepts of cloud computing
- You will learn security and compliance through the cloud
- Understand the fundamentals of cloud security and best practices
- You will learn about AWS core services such as compute, database, network, and storage
- You will learn AWS cost, economics and billing practices
- You will learn how to identify AWS services for common use cases

About Instructor

One of our industrial experts who created this video with an in-depth description is the trainer of AWS and covered each subject briefly. UniNets verifies the teacher. He has provided over 50 + worldwide retail and corporate and training programmes.

Course Content

- Cloud Concepts
 - Explain the AWS Cloud concepts and its value proposition
 - Identify aspects of AWS Cloud economics
 - Different types of cloud architecture design principles
- Security and Compliance
 - Define the AWS shared responsibility model
 - Define AWS Cloud security and compliance concepts
 - Identify AWS access management capabilities
 - Identify resources for security support
- Technology
 - Deploying methods and define operating in the AWS Cloud
 - Define the AWS global infrastructure
 - Identify the core AWS services
 - Identify resources for technology support

- Billing and Pricing
 - Difference between various pricing models for AWS
 - Identify the different account structures in relation to AWS billing and pricing
 - Identify resources available for billing support
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AWS Certified Solutions Architect Associate Course

For those candidates who play the position of solution architect in their organizations, the AWS Certified Solution Architect (SAA-C02) course is the best option. This test validates the expertise and knowledge of how to architect and deploy healthy and robust AWS technology applications. You will be able to identify a solution using architectural design concepts during this certification course.

About the training

- **Study Material:-** Live lectures, Streaming Recorded Videos, Online Lab Workbook, and Remote Lab access.
- **Duration:-** 1 Month

What you will learn

- Make architectural decisions based on AWS architectural principles and best practices
- Leverage AWS services to make your infrastructure scalable, reliable, and highly available
- Leverage AWS Managed Services to enable greater flexibility and resiliency in an infrastructure
- Make an AWS-based infrastructure more efficient to increase performance and reduce costs
- Use the Well-Architected Framework to improve architectures with AWS solutions

About Instructor

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Course Contents

- Core Elements of Cloud Architecture
 - Crux of Virtualization
 - Key Concepts of Virtualization
 - Basics of Networking
 - Basics of Servers and Server Oss
- Fundamental Pillars of Cloud Computing
 - Private Cloud
 - Public Cloud
 - Private Cloud vs. Public Cloud
 - Brief Introduction of Infrastructure as a Service (IaaS)
 - Brief Introduction of Platform as a Service (PaaS)
 - Brief Introduction of Software as a Service (SaaS)
- Compute Lab
 - Create a EC2 windows machine and validate the accessibility
 - Create a EC2 Linux machine and validate the accessibility
 - Extend disk drives in EC2 for windows and for 30GB and same with Linux and validate
 - Create a AMI and test the AMI
 - Create a snapshot for EC2 instance and terminate the instance and do the restoration
 - Move the snapshot from one region to another region
 - Enable termination protection and validate the EC2 by deleting the machine
 - Create a EC2 Windows server 2012 R2 64Bit configure AD and create a additional machine and configure as a member server.
 - Configure EC2 Linux machine and install apache configuration
 - Upgrade EC2 memory and storage
- Networking Lab
 - Create a VPC, Create a subnet, create internet gateway and routing table
 - Configure EC2 machines with the above created networks and check the Connectivity
 - Configure elastic IP and assign this to instance and test the connectivity
 - Configure a public subnet and private subnet and configure NAT Gateway and test the internet traffic for private network
 - Configure one VPC by XYZ name, Configure one more VPC (ABC name) do the peering between two VPC
 - Configure one jump box in one VPC and test the RDP access to another VPC jump box Configure security group rules
 - Configure VPC to VPC and VPC to VPC Connectivity Test
- Storage Lab
 - Create a S3 bucket and put some data and try to access.
 - Create S3 bucket enable versioning and test for deleting the files and restoring through it
 - Create a S3 bucket and host a website in S3
 - Create a S3 bucket and configure load balancer logs

- Create a IIS and HTML Page in EC2 and put hyperlinks for S3
- Install cloudberry in windows and configure backups for glacier
- Create a filer in EFS and mount to Linux machine
- Attach volumes from EC2 and detach the volumes in EC2
- Configure Life cycle from S3 to glacier
- Configure S3 endpoints URL in Route 53
- Databases Lab
 - Configure My SQL and Test
 - Configure Dynamo DB and Test
- Load Balancer Lab
 - Create a EC2 two windows machines and install IIS and host a HTML File and check the website connectivity
 - Create a EC2 two Linux machine and install apache and host HTML File and check the website
 - Create a application load balancer
 - Create a classic load balancer and test the load balancing
- Route 53 Lab
 - If you have a domain purchased in Godaddy or any provider then create a hosted zone in route 53 and create a record in route 53
 - Validate the domain registration in route 53
 - Configure alias creation in route 53
- Security Lab
 - Configure IAM users and validate the connectivity from dashboard
 - Configure policy and attach policy to users
 - Configure groups and assign permission to groups
 - Configure AD in EC2 and configure AD connector from directory services and provide access to the users
 - Configure different permissions to different users and do the testing
 - Configure Google authenticator in mobile and validate multifactor authentication
 - Validate AD user for different EC2 Services



Microsoft Azure (AZ-900) Course Overview

Azure, since cloud operations have been extended a lot, is one of the courses with exponential growth. This course is intended for IT professionals who have cloud expertise and are eager to develop more or to learn about virtual networks, virtual machines and storage options through hands-on experience and expert guidance for system administrators who are transitioning into Azure candidates.

The course will teach you comprehensive concepts of cloud concepts, cloud services , cloud protection, privacy of the cloud , cloud pricing and support for the cloud.

What you will learn?

- About Azure subscriptions and billing
- How to implement Azure policies
- How to implement access management with Azure users, groups, and role-based access control
- How to use Azure Monitor to configure Azure alerts
- Optimize Azure portal, Azure PowerShell, Cloud Shell and the Azure CLI
- You will learn how to create Azure storage accounts for various data replication, costing, and content scenarios
- How to configure domains and tenants
- Configure users and groups, roles, and devices
- How to implement and manage Azure Active Directory integration options
- Implement and manage Azure AD Application Proxy

Online – Weekend Classes

Study Material:- Online Instructor-led Training, Live Training Recorded Videos, 24*7 Virtual Lab Access, and Online Workbook

Duration:- 1 Month

About Trainer:

In demonstrating each subject of this course, the teacher of Azure has applied all his expertise. He is both Microsoft-certified and UniNets-verified. He has outstanding experience and has delivered more than 30 retail and corporate training courses worldwide.

Course Contents

- Understand Cloud Concepts
 - High availability, agility, elasticity, scalability, fault tolerance, and disaster recovery
 - Explain the principles of economies of scale
 - Overview and differences between Capital Expenditure (CapEx)
 - Operational Expenditure (OpEx) overview
 - Understand the consumption-based model
- Differences between Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS)
 - Infrastructure-as-a-Service (IaaS)
 - Platform-as-a-Service (PaaS)
 - Software-as-a-Service (SaaS)
 - Different service types
- Difference between public, private and hybrid cloud models
 - Describe public cloud
 - Describe private cloud

- Describe hybrid cloud
 - Compare and contrast the 3 different cloud models
- Understand core Azure services
- Learn about core Azure architectural components
 - Describe Regions
 - Describe Availability Zones
 - Describe Resource Groups
 - Describe Azure Resource Manager
 - Benefits of core Azure architectural components
- Describe some of the core products available in Azure
 - Explain products available for Compute such as Virtual Machines, App Service Functions, Virtual Machine Scale Sets, Azure Container Instances and Azure Kubernetes Service
 - Explain products available for Networking, such as Virtual Network, VPN Gateway, Load Balancer, Application Gateway and Content Delivery Network
 - Storage products such as Blob Storage, Disk Storage, File Storage
 - Database products such as Cosmos DB, Azure SQL Database, Azure Database for MySQL, Azure Database for PostgreSQL, Azure Database Migration service
 - Describe the Azure Marketplace and its usage scenarios
- Solutions available on Azure
 - IoT and products available for IoT on Azure, for example IoT Hub and IoT Central
 - Big Data and Analytics and products available for Big Data and Analytics, such as SQL Data Warehouse, HDInsight, and Azure Databricks
 - Artificial Intelligence and products available for AI, such as Azure Machine Learning Service and Studio
 - Server less computing and Azure products available for server-less Computing, such as Azure Functions, Logic Apps, and Event Grid
 - DevOps solutions available on Azure, such as Azure DevOps and Azure DevTest L
 - Benefits and outcomes of using Azure solutions
- Understand Azure management tools
 - Explain Azure tools such as Azure Portal, Azure PowerShell, Azure CLI and Cloud Shell
 - Understand Azure Advisor
- Understand security, privacy, compliance, and trust
 - Explain Network Security Groups (NSG)
 - Explain Application Security Groups (ASG)
 - Explain User Defined Rules (UDR)
 - Explain Azure Firewall
 - Explain Azure DDoS Protection
 - Choose an appropriate Azure security solution
- Describe core Azure Identity services
 - Difference between authentication and authorization
 - Describe Azure Active Directory
 - Describe Azure Multi-Factor Authentication
- Describe security tools and features of Azure
 - Describe Azure Security Center
 - Understand Azure Security Center usage scenarios

- Describe Key Vault
 - Describe Azure Information Protection (AIP)
 - Describe Azure Advanced Threat Protection (ATP)
- Azure governance methodologies
 - Describe policies and initiatives with Azure Policy
 - Describe Role-Based Access Control (RBAC)
 - Describe Locks
 - Describe Azure Advisor security assistance
 - Describe Azure Blueprints
- Understand monitoring and reporting options in Azure
 - Describe Azure Monitor
 - Describe Azure Service Health
 - Overview of use cases and benefits of Azure Monitor
 - Explain Azure Service Health
- Overview of privacy, compliance and data protection standards in Azure
 - Explain of industry compliance terms such as GDPR, ISO and NIST
 - Overview of Microsoft Privacy Statement
 - Describe the Trust center
 - Describe the Service Trust Portal
 - Describe Compliance Manage
 - Determine if Azure is compliant for a business need
 - Understand Azure Government cloud services
 - Describe Azure China cloud services
- Understand Azure pricing and support
 - Describe an Azure subscription
 - Uses and options with Azure subscriptions
 - Subscription management using Management groups
- Understand planning and management of costs
 - Azure products and services purchasing options
 - Azure Free account options
 - Costs effecting factors for example resource types, services, locations, ingress and egress traffic
 - Zones for billing purposes
 - Pricing calculator
 - Explain the Total Cost of Ownership (TCO) calculator
 - Learn best practices for minimizing Azure costs
 - Describe Azure Cost Management
- Learn support options available with Azure
 - Explain support plans that are available for Azure, such as Dev, Standard, Professional Direct and Premier
 - Understand how to open a support ticket
 - Explain available support channels outside of support plan channels
 - Describe the Knowledge Center
- Explain Azure Service Level Agreements (SLAs)
 - Describe a Service Level Agreement (SLA)

- Understand Composite SLAs
 - Explain an appropriate SLA for an application
- Understand service lifecycle in Azure
 - Understand public and private preview features
 - Understand the term General Availability (GA)
 - Monitor feature updates and product changes



Google Cloud Course (Associate Cloud Engineers) Overview

This course presents the skills needed by ACE certification, including the implementation of software, management of business solutions and operations monitoring. Google Cloud allows applicants to be able to operate both the command line and the GCP console to perform some common platform-based tasks, but candidates are not recommended to have any formal prerequisites or experience.

About the Training

Google Cloud is also built to provide candidates with the strong GCP capability base that they will need to develop later on for certification by Google Certified Professional Cloud Architect (PCA).

About the training

- **Study Material:-** Online Instructor-led Training, Recorded Videos of Live Training, Online Lab Workbook, and Remote Virtual Lab access.
- **Duration:-** 1 Month

Certification

This course will assist you in passing the qualification of Associate Cloud Engineer, which is Google cloud basic level qualification.

What you will learn

- Understand how to set up an infrastructure for Google Cloud, including security, billing access, project tools and accounting.
- Configure, deploy, execute, manage, schedule and monitor Google Cloud solutions.
- How to use Google Cloud via both the command line and the console line.
- Improve and update information for other qualification examinations for GCP.

Requirements

- Candidates should have basic concepts of Cloud Computing
- Coding experience is not required. Code is provided for use in labs where necessary

Who can pursue this course

- System administration
- Developers who want to leverage Google Cloud for the applications they build
- Architects
- Technical managers

Course Content

- Cloud solution environment setup
 - Cloud projects and accounts setup:
 - Creating projects
 - Assignment of users within a project to predefined IAM positions
 - Managing users manually and automated in Cloud Identity
 - Enabling APIs within projects
 - Provisioning one or more Stackdriver workspaces
 - Managing billing configuration:
 - Creating one or more billing accounts
 - Linking projects to a billing account
 - Establishing billing budgets and alerts
 - Setting up billing exports to estimate daily/monthly charges
 - Install and configure the CLI (Command Line Interface), specifically the Cloud SDK (set the default project , for example)
- Planning and configuring a cloud solution
 - Using the Price Calculator to schedule and estimate GCP product consumption
 - Planning and configuring compute resources
 - Find appropriate compute choices for a given workload
 - Using, as applicable, preemptible VMs and custom system types
 - Planning and configuring data storage options
 - Product choice such as Cloud SQL, BigQuery, Cloud Spanner, Cloud Bigtable
 - Choosing storage options such as Standard, Nearline, Coldline, Archive

- Planning and configuring network resources
 - Differentiating load balancing options
 - Find resource locations in a network for availability
 - Configuring Cloud DNS
- Deploying and implementing a cloud solution
 - Deploying and implementing Compute Engine resources
 - Using Cloud Console and Cloud SDK to start a computing instance such as gcloud
 - Using an instance template creat an autoscaled managed instance group
 - For instances generating/uploading a custom SSH key
 - Designing a VM for Stackdriver monitoring and logging
 - Compute quotas assessing and requesting increases
 - Stackdriver Agent installation for monitoring and logging
 - Deploying and implementing Google Kubernetes Engine resources
 - Deploying a Google Kubernetes Engine cluster
 - Using pods, deploy a container application to Google Kubernetes
 - Designing Google Kubernetes Engine application monitoring and logging
 - Deploying and implementing App Engine, Cloud Run, and Cloud Functions resources
 - Deploying an application, versions, updating, scaling configuration, and traffic splitting
 - Deploying an application that receives Google Cloud events
 - Deploying and implementing data solutions
 - Initializing data systems with products
 - Loading data overview
 - Deploying and implementing networking resources
 - Creating a VPC with subnets
 - With custom network configuration launch a Compute Engine instance
 - Creating ingress and egress firewall rules for a VPC
 - Create a VPN (virtual private network) between a Google VPC and an external network using Cloud VPN
 - To distribute application network traffic to an application create a load balancer
 - Deploying a solution using Cloud Marketplace
 - Browse Cloud Marketplace catalog and viewing solution details
 - Deploy a Cloud Marketplace solution
 - Using Cloud Deployment Manager, deploy application infrastructure
 - Developing Deployment Manager templates
 - Launching a Deployment Manager template
- Ensuring successful operation of a cloud solution
 - Managing Compute Engine resources
 - Managing a single VM
 - SSH/RDP to the instance
 - Attaching a GPU and upgrading CUDA libraries to a new instance
 - Viewing current running VM inventory
 - Working with snapshots
 - Working with images
 - Working with instance groups
 - Working with management interfaces
 - Managing Google Kubernetes Engine resources
 - Viewing current running cluster inventory
 - Browsing the container image repository
 - Viewing container image details

- Working with node pools
 - Working with pods
 - Working with services
 - Working with stateful applications
 - Working with management interfaces
- Managing App Engine and Cloud Run resources
 - Adjusting application traffic splitting parameters
 - Setting scaling parameters for autoscaling instances
 - Working with management interfaces
- Managing storage and database solutions
 - Moving objects between Cloud Storage buckets
 - Converting Cloud Storage buckets between storage classes
 - Object life cycle management policies setting for Cloud Storage buckets
 - From data instances executing queries to retrieve data
 - Estimating costs of a BigQuery query
 - Backing up and restoring data instances
 - Reviewing job status in Cloud Dataproc, Cloud Dataflow, or BigQuery
 - Working with management interfaces
- Managing networking resources
 - Adding a subnet to an existing VPC
 - Expanding a subnet to have more IP addresses
 - Reserving static external or internal IP addresses
 - Working with management
- Monitoring and logging
 - Based on resource metrics create Stackdriver alerts
 - Creating Stackdriver custom metrics
 - Configuring log sinks to export logs to external
 - Viewing and filtering logs in Stackdriver
 - Viewing specific log message details in Stackdriver
 - Using cloud diagnostics to research an application issue
 - Viewing Google Cloud Platform status
 - Working with management interfaces
- Configuring access and security
 - Managing identity and access management (IAM)
 - Viewing IAM role assignments
 - Assigning IAM roles to accounts or Google Groups
 - Defining custom IAM roles
 - Managing service accounts. Tasks include:
 - Managing service accounts with limited privileges
 - Assigning a service account to VM instances
 - Granting access to a service account in another project
 - Viewing audit logs for project and managed services

Note: ***Most of the course topics are covered with hands-on lab exercises and others are theoretical

**THANK YOU
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