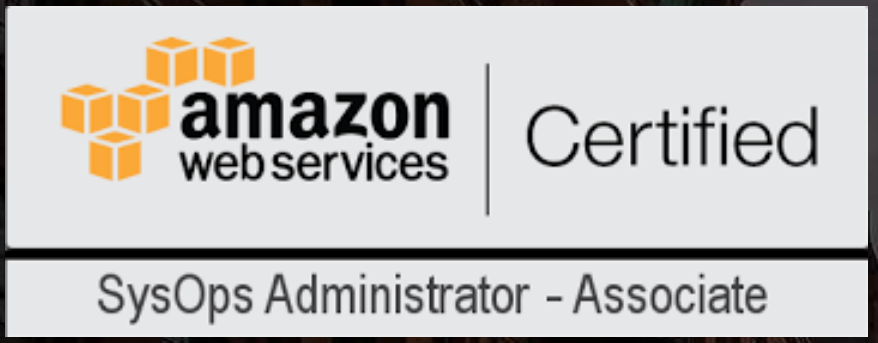

Related job functions:

- ❑ Deploying, managing, and operating scalable, highly available, and fault tolerant systems on AWS
- ❑ Migrating an existing on-premises application to AWS
- ❑ Implementing and controlling the flow of data to and from AWS
- ❑ Selecting the appropriate AWS service based on compute, data, or security requirements
- ❑ Identifying appropriate use of AWS operational best practices
- ❑ Estimating AWS usage costs and identifying operational cost control mechanisms

AWS Certified SysOps Administrator – Associate

- ❖ This course is intended for System Administrators, who'll be responsible for managing System Operations on AWS environment.
- ❖ This certification validates technical expertise, skills and your competence in selecting the appropriate AWS services to meet an organization's needs, and ensure data integrity and data security on AWS technology.
- ❖ AWS based systems are usually mission critical to an organization, and AWS Certified SysOps Administrators are required to provision systems & deploy applications on the AWS platform, managing and securing them in an AWS environment.
- ❖ This certification also covers Monitoring metrics related to availability and performance on AWS platform, Migrating an existing on-premises application to AWS environment and Manage backup and disaster recovery processes.

What You'll Learn

Terminology and concepts as they relate to the AWS platform and navigate the AWS Management Console.

Understand the foundational infrastructure services, including Amazon Virtual Private Cloud (VPC), Amazon Elastic Compute Cloud (EC2), Amazon Elastic Block Store (EBS), Amazon Simple Storage Service (S3), Auto Scaling and Elastic Load Balancing (ELB), Understanding RDS

Understanding AWS Instance Types, Utilization, and Performance, Elastic Compute Cloud (EC2) Instance and System Status Checks, Installing and Configuring Monitoring Scripts for Amazon EC2 Instances, Monitoring: EC2 instances, EBS, ElastiCache, Elastic Load Balancer and RDS for Performance and Availability

High Availability: Scalability and Elasticity Essentials and implement scalability and elasticity based on business needs, AutoScaling vs. Resizing, Ensure level of fault tolerance based on business needs, Elastic Load Balancer Configurations, Understanding RDS Multi-AZ Failover

Overview of Backup Services on AWS and Services that Include Backups, Managing Backup And Disaster Recovery Processes, Quickly Recovering from Disasters, S3 and RDS Backup Options, EBS Options, EC2 Backup Strategies

AWS Security Fundamentals, AWS Shared Responsibility Model, AWS Global Infrastructure Security, Security Groups & Network ACLs, AWS Account Security, IAM Roles, S3 Bucket Policies, Building IAM Policies, Cloud Security Considerations & Security Best Practices for Clouds, Ensure data integrity and access controls when using the AWS platform

Introduction to Amazon VPC, AWS Networking and AWS Networking Architecture, Subnets, Route Tables, Internet Gateways, Network Address Translation (NAT) Instances and NAT Gateways, Network ACLs, Elastic IP Addresses and Elastic Network Interfaces, DB Subnet Groups, VPC Networking & VPC Security, Route53 and DNS Failover, Redundancy with Route 53

Introduction to Elastic Load Balancing (ELB), Basic ELB concepts, Load Balancing with ELB, Internet-facing ELBs & VPC-facing ELBs, Elastic Load Balancer Configurations for high availability

Understand AWS management tools, Amazon CloudTrail Overview, Amazon CloudWatch and AWS Trusted Advisor, Monitoring CloudTrail Events With CloudWatch, Billing and Cost Management: Consolidated Billing, Cost Optimization and Billing & Alerts