NUTECH COMPUTER TRAINING INSTITUTE

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AWS Certified SysOps Administrator - Associate

Introduction to AWS

The AWS Certified SysOps Administrator –

- Deliver the stability and scalability needed by a business on AWS
- Provision systems, services and deployment automation on AWS
- Ensure data integrity and data security on AWS technology
- Provide guidance on AWS best practices
- Understand and monitor metrics on AWS

AWS Knowledge

- Minimum of one-year hands-on experience with the AWS platform
- Professional experience managing/operating production systems on AWS
- A firm grasp of the seven AWS tenets – architecting for the cloud
- Hands on experience with the AWS CLI and SDKs/API tools
- Understanding of network technologies as they relate to AWS
- Good grasp of fundamental Security concepts with hands on in experience in implementing Security controls and compliance requirements

General IT Knowledge

- 1-2 years' experience as a systems administrator in a systems operations role
- Experience understanding virtualization technology
- Monitoring and auditing systems experience
- Knowledge of networking concepts (DNS, TCP/IP, and Firewalls)
- Ability to collaborate with developers and the general business team/company wide

Course Outline

0. Introduction to Cloud Computing

0.1 Cloud computing
0.2 Comparison of leading cloud platforms

0.3 Cloud applications
0.4 The role of Cloud Computing SysOps Administrator

1. Domain 1.0: Monitoring and Metrics
1.1 Demonstrate ability to monitor availability and performance
1.2 Demonstrate ability to monitor and manage billing and cost optimization processes

2 Domain 2.0: High Availability
2.1 Implement scalability and elasticity based on scenario
2.2 Ensure level of fault tolerance based on business needs

3 Domain 3.0: Analysis
3.1 Optimize the environment to ensure maximum performance
3.2 Identify performance bottlenecks and implement remedies
3.3 Identify potential issues on a given application deployment

4 Domain 4.0: Deployment and Provisioning
4.1 Demonstrate the ability to build the environment to conform with the architected design
4.2 Demonstrate the ability to provision cloud resources and manage implementation automation

5 Domain 5.0: Data Management
5.1 Demonstrate ability to create backups for different services
5.2 Demonstrate ability to enforce compliance requirements
5.3 Manage backup and disaster recovery processes

6 Domain 6.0: Security
6.1 Implement and manage security policies
6.2 Ensure data integrity and access controls when using the AWS platform
6.3 Demonstrate understanding of the shared responsibility model
6.4 Demonstrate ability to prepare for security assessment use of AWS

7 Domain 7.0: Networking
7.1 Demonstrate ability to implement networking features of AWS
7.2 Demonstrate ability to implement connectivity features of AWS