AWS Systems Operations:

Course Content

Week 1:

Module 1: Understanding System Operations on AWS

- Administer Resources on AWS
- Data Center vs the cloud
- High Level Overview
- Securing Your AWS Account
- Command Line Basics

Module 2: Computing on AWS

- Creating instances
- Instance Security
- Pricing
- Troubleshooting

Lab 1: Launching and troubleshooting Amazon EC2 instances

Module 3: Networking on AWS

- Common Amazon VPC Scenarios
- Amazon VPC Peering and Direct Connect
- Amazon VPC Security Troubleshooting

Lab 2: Configuring a Virtual Private Cloud

Week 2:

Module 4: Storage and Archiving in the Cloud

- Using Amazon Elastic Block Store
- Amazon S3,AWS Import/Export, and AWS Storage Gateway
- Amazon Glacier
- Storage Security
- Trouble Shooting
- Pricing

Lab 3: Using storage in the Cloud; Synchronizing files with Amazon S3

Module 5: Monitoring in the cloud

- Logging Basics

- Using CloudWatch and CloudWatch Logs

- Using AWS CloudTrail

- Secuirty and Monitoring

- Troubleshooting

Week 3:

Lab 4: Monitor EC2 System Status with CloudWatch; Auto-stop Unused Instances

Module 6: Managing Resource Consumption in the Cloud

- Automating Cost Reduction

- Tagging

- CloudWatch

- Cost Explorer

- Trusted Advisor

Lab 5: Managing Resources with Tagging; Identifying and Terminating Non-Compliant Resources

Module 7: Configuration in the Cloud

- Using and Creating New AMIs

- Using Configuration Management

- Troubleshooting CM

Week 4:

Module 8: DataBase on Cloud

- Exploring Relation Database service

- DynamoBD

- Elastic Cache

Lab 6: Deploy Database service on Cloud

Module 9: Creating Scalable Deployments in the Cloud

- Common Deployment Scenarios

- Redirecting Traffic with Elastic Load Balancing

- Scaling to Demand with Auto Scaling

- Routing with Amazon Route 53

- Troubleshooting Scalable Deployments

Lab 7: Deploy an Auto Scaling Web Service

Course Wrap-Up