Cisco AWS Integration (CISAWS) Certification

Course Outline:

Lesson 1- Application Workloads in a Cloud Environment

- o Overview of Application Workload Components

- o Decoupling application workload software and infrastructure components

- o Creating a common infrastructure for application workloads in a private and public cloud

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- o Attaining a state of "infrastructure as code" using API's for efficiently deploying and migrating application workloads from one cloud to another

- o Comparing and contrasting private and public environments

- o Evaluating the pros and cons of private and public environments
- o Synthesizing private and public clouds to create a hybrid cloud environment

- Designing a secure hybrid cloud model to facilitate application workload mobility

- Review the challenges and complexities of deploying a hybrid cloud environment to facilitate application workload mobility

- Review the critical Cisco products to facilitate application workload mobility in a secure hybrid cloud environment

Lessons 2- Introduction to AWS

- AWS Architecture Overview
- AWS Services Overview
- Using the AWS GUI Console
- Using the AWS CLI
- Review of AWS Programmability using the Python BOTO3 SDK
- Enhancing an AWS deployment with Cisco products
- AWS Design Considerations
- Comparing a Cisco Powered Private Cloud Deployment with an AWS Public Cloud Deployment

Lesson 3 - Deploying the Cisco CSR 1000V in AWS

- Cisco CSR 1000V Overview
- Cisco CSR 1000V capabilities
- Exploring the multiple Cisco CSR 1000V management interfaces
- Installing a Cisco CSR 1000V in AWS
- Configuring DMVPN with the Cisco CSR 1000V to connect enterprise sites with AWS
- Configuring IPSec on Cisco CSR 1000V DMVPN tunnels
- Using the Cisco CSR 1000V to establish AWS inter-VPC VPN Tunnels

o Using the Cisco CSR 1000V to create redundant connections to AWS

Lesson 4 - Deploying the Cisco ASAv in AWS

- o Cisco ASAv Overview
- o Cisco ASAv capabilities
- o Cisco ASA management interfaces
- o Installing the Cisco ASAv in AWS
- o Managing the Cisco ASAv

Lesson 5 - Deploying Cisco CloudCenter in AWS

- o Cisco CloudCenter Overview
- o Cisco CloudCenter Components
- o Exploring Cisco CloudCenter User Interfaces
- o Installing Cisco CloudCenter
- o Cisco CloudCenter Configuration Defaults
- o Deploying an Application Cisco CloudCenter
- o Migrating an application workload with Cisco CloudCenter from AWS
- o Cisco CloudCenter advanced features: Benchmarking and Scaling Features

Lesson 6- Deploying Cisco Tetration in AWS

- o Cisco Tetration Overview
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- o Cisco Tetration Features and Benefits
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- o Cisco Tetration Analytics Platform Architecture
- o Overview of Hardware and Software sensors overview