Implementing Cisco Data Center Virtualization and Automation v6.0 (CS-DCVAI v6.0)

Modality: Virtual Classroom

Duration: 3 Days

CLC: 31 Units

About this course:

The CS-DCVAI v6.0 course is designed to teach students about Implementing Cisco Data Center Virtualization and Automation. The students will gain fundamental knowledge of Cisco Data CCNP Data Center. This course will also help them prepare for the certification of Cisco CCNP Data Center and professional data center roles.The course focuses on the skills boosting elements of Cisco Data Center Virtualization and Automation. These also includes the Cisco Application Center Infrastructure (ACI) implementation and Nexus- operating system configuration automation. Furthermore, the course offers extensive and hands-on expertise on creating Cisco ACI data center-based solution.

Students will also learn about automation provided by Python and RESTful APIs with the use of CISCO ACI and Cisco Nexus switches. The modules in this course also students to prepare for the examination of Cisco: 300-170.

Course Objectives:

Through this course, students will able to learn the following

- Deployment of virtualization infrastructure solutions. This includes VDC, Cisco NX 1000v, and Cisco AVS
- Use of Cisco UCS Director for Cisco ACI
- Integration of Cisco ACI with virtual machines like VMware v Center
- Identification of Cisco Nexus programming methods and switches with XML, NXAPS, and Python
- Using Cisco AVS and microsegmentation
- Use of Cisco ACI structure for L4-L7 service
- Using Periodic Meters for monitoring Cisco ACIs

Audience:

The course has been designed for professionals:

Cisco Integrators/ Partners

Architect of Technical Solutions

Engineers in network, systems, network administrator, and network designer

Prerequisites:

The course required prior understanding of concepts of data center networking, virtualization of data center, and data center storage.

Course Outline:

- **Module 1: Infrastructure Virtualization Implementation**
- **Module 2: NX-OS Configuration Automation**
- **Module 3: Application-Centric Infrastructure**
- **Module 4: ACI Constructs**
- **Module 5: Application-Centric Infrastructure Monitoring and Programmability**
- **Module 6: Cisco ACI Enhanced Features**
- **Module 7: Application-Centric Infrastructure Networking**

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