



## Cloud Infrastructure Training Syllabus

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The Cloud Infrastructure and Services (CIS) course educates participants about cloud deployment and service models, cloud infrastructure, and the key considerations in migrating to cloud computing. The course covers technologies required to build classic (traditional), virtualized, and cloud data center environments. These technologies include compute, storage, networking, desktop and application virtualization. Additional areas of focus include backup/recovery, business continuity, security, and management. Students will learn about the key considerations and steps involved in transitioning from the current state of their data center to a cloud computing environment. Upon completing this course, participants will have the knowledge to make informed decisions about migrating to cloud infrastructure and choosing the best deployment model for their organization.

### Training Module:

### **CLOUD INFRASTRUCTURES AND SERVICES COURSE CONSISTS OF 11 MODULES:**

#### **1. Journey to the Cloud**

- This module focuses on the business drivers, definition, essential characteristics, and phases in the journey to the cloud.

#### **2. Classic Data Center (CDC)**

- This module focuses on the key elements of CDC compute, storage, and network with focus on storage networking, business continuity, and data center management. This module covers classic compute and network at a high level, based on the assumption that students are already familiar with those technologies.

#### **3. Virtualized Data Center (VDC) Compute**

- This module focuses on the compute aspect of the VDC. It explains the fundamental concepts of compute virtualization and covers compute virtualization techniques. This

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module also details virtual machine (VM) components and management of compute resources. Finally, it covers the process to convert physical machine to VM.

#### **4. Virtualized Data Center (VDC) Storage**

- This module focuses on storage virtualization implementation, key underlying technologies, and methods for providing virtual storage to compute systems in a VDC environment.

#### **5. Virtualized Data Center (VDC) Networking**

- This module focuses on networking in a VDC environment. It covers network virtualization in VDC, VDC network infrastructure and components, virtual LAN, and virtual SAN. It also covers the key network traffic management techniques.

#### **6. Virtualized Data Center (VDC) Desktop and Application**

- This module focuses on the various aspects of desktop and application virtualization technologies.

#### **7. Business Continuity in VDC**

- This module focuses on the concepts and techniques employed for ensuring business continuity in a Virtualized Data Center (VDC) environment. It discusses the mechanisms to protect single point of failure in a VDC. Next, it covers the various technology options for backup, replication, and migration of Virtual Machines (VM) and their data in a VDC environment. Finally, it discusses the various options for recovering from total site failure due to a disaster.

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## **9. Cloud Computing Primer**

- This module focuses on the essential characteristics of cloud computing, the various cloud services and deployment models, and the economics of cloud.

## **10. Cloud Infrastructure and Management**

- This module focuses on the cloud infrastructure components and cloud service creation processes. It also includes the cloud service management processes that ensure that the delivery of cloud services is aligned with business objectives and expectations of cloud service consumers.

## **11. Cloud Security**

- This module focuses on security concerns and counter measures in a VDC and cloud environment. It discusses key security concerns and threats. It covers various infrastructure security mechanisms in VDC and cloud environments, including access control, identity management, governance, and more. Additionally, the module lists cloud security best practices.

## **12. Cloud Migration Considerations**

- This module focuses on considerations for migration to the cloud. It details cloud models suitable for different categories of users. Further, it covers considerations for choosing candidate application and various other considerations for migration to cloud. It also covers various phases of cloud adoption.

**TRAINING SCHEDULE** - Please contact us for latest training schedule

### **TRAINING MODE**

We give flexible learning options to trainees

- Instructor Lead (REGULAR / ONLINE / WEEK-END / PART-TIME / COMBINED-FLEXIBLE)
- INSTRUCTOR LEAD LIVE ONLINE TRAINING MODE - You can join the training from any part of world

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