



CURRICULUM

CLOUD INFRASTRUCTURE AND SERVICES (CIS)

"Cloud essentials" course for all IT professionals responsible for server , storage, networking, and applications

» COURSE OVERVIEW

The Cloud Infrastructure and Services (CIS) course educates students about cloud deployment and service cloud infrastructure, and the key considerations in migrating to cloud computing. For all definitions of cloud computing, the course has resorted to the U.S. National Institute of Standards and Technology as a guide. The course covers required to build technologies (traditional), virtualized, and cloud data center environments. These technologies compute, storage, networking, desktop and application virtualization. Additional areas focus are backup/recovery , business continuity security, and management. Students will learn about the key considerations and steps involved in transitioning from the current state of a data center to a cloud computing environment. Upon completing this course, students will have the knowledge to make informed decisions about migrating to cloud infrastructure and choosing the best deployment model for an organization.

CLOUD INFRASTRUCTURES AND SERVICES COURSE CONSISTS OF 11 MODULES:

» Module 1: Journey to the Cloud

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

» Module 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.

» Module 3: V irtualized 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 module also details virtual machine (VM) components and management of compute resources. Finally, it covers the process to convert physical machine to VM.

Module 4: V irtualized 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.

Module 5: V irtualized 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.

Module 6: V irtualized Data Center (VDC)Desktop and Application

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

» Module 7: Business Continuity in VDC

This module focuses on the concepts and techniques employed for ensuring business continuity in a V irtualized 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 .

» Module 7: Business Continuity in VDC

This module focuses on the concepts and techniques employed for ensuring business continuity in a V irtualized 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 .

» Module 8: 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.

» Module 9: 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.

» Module 10: 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.

» Module 11: 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.

Partners:













development consultancy training

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