

Virtualized Data Center and Cloud Infrastructure

Course Description



Course Number

MR-1CP-NPVICE

Delivery Method

Instructor Led

Duration

5 Days



This course material supports the
EMC Proven Professional Program



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Overview

This course will cover in-depth details and considerations for planning, designing, and migrating to Virtualized Data Centers (VDC) and Cloud environments. This course will enable data center technology professionals to design VDC and Cloud information infrastructures maintaining the most robust and elastic compute, network, and storage environments. The course will be premised on an 'open' architecture focusing on core components, principles, and technologies constituting both VDC and Cloud deployments utilizing best-of-breed EMC examples. This training is designed to be at the forefront of the changing IT landscape as traditional physical data centers evolve and morph into virtual entities and cloud environments.

Audience

This course is intended for architects, designers and consultants. Specifically, this course is intended for anyone involved in or engaged in the planning for:

- Virtualized data centers: servers, storage, networks, applications and services
- Cloud implementations: creation, migration and implementing services
- Convergence of traditional data centers to VDC and extension to Cloud infrastructures

Prerequisite Knowledge/Skills

To understand the content and successfully complete this course, a student must have an understanding of the following technologies and concepts:

- The ideal candidate is a technical professional with three or more years of hands on experience in storage and operating systems, and exposure to basic networking and the following topics:
 - Basic business application knowledge
 - Fundamental knowledge and understanding of managing complex systems, networks, and storage with an advent of virtualization
 - Common business continuity practices and disaster recovery principles

Course Objectives

Upon successful completion of this course, participants will be able to:

- Describe and differentiate between virtualization and cloud concepts and capabilities including core VDC components and cloud elements
- Describe the overall management strategy of a VDC or Cloud environment
- Incorporate and list the critical aspects of cloud services as elements of cloud infrastructure planning
- Describe how business process and service requirements will impact VDC and cloud planning and design
- Identify key governance, audit and compliance considerations

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Topics

The following topics are included in this course:

- Virtualized Data Center and Cloud Introduction
- Virtualized Data Center Architecture
- Business Continuity and Disaster Recovery Principles for VDC Environments
- Planning and Design Concepts for VDC Environments
- Managing VDC Environments and Infrastructures
- Governance, Risk, and Compliance (GRC) for VDC and Cloud Environments
- Cloud Services
- Planning and Design for Cloud Enablement
- VDC to Cloud Use Cases

Labs

Labs reinforce the information you have been taught. The labs for this course will be conducted via case studies and collaborative discussion, work sessions, and de-briefs. These case studies will include:

- VDC to Cloud Component Considerations
- Planning and Design for VDC
- Business Continuity and Disaster Recovery for VDC
- Business and Technology Planning and Design
 - VDC Environments
 - Cloud Environments
- VDC Management Methodologies
- GRC Strategy and Considerations
- Involving Business Process and Technology in Cloud Services
- Planning and Design for Cloud