

Disaster Recovery Strategies

COURSE DESCRIPTION

This course provides information technology managers and executives with the knowledge they require to successfully assess and mitigate the IT risks facing enterprise systems today. It is a broad overview of how to manage Disaster Recovery, including DR plans, Storage Virtualization Concepts, High Availability Concepts and Data Replication concepts. Group discussions and demonstrations are used extensively to reinforce the classroom instruction.

Delivery Method

Instructor-led

Duration

Four days

Course Objectives

During this course, you will learn:

- What is Disaster Recovery
- How to initiate a Disaster Recovery Project
- How to analyze the business impact of a disaster
- How to plan an Operation Continuity Strategy
- How to create a DR plan
- What is Storage Virtualization
- Why use Storage Virtualization
- How to compare and contrast the Storage Virtualization techniques
- How to assess your Storage virtualization needs
- What is High Availability
- How to design for high availability
- How to cluster with Shared Storage
- How to cluster for Disaster Recovery
- What is Replication
- Does Replication replace tape backups
- How to plan and define needs for replication

Who Should Attend

This course is for technology managers, executives and consultants who are responsible for properly managing the IT risks associated with their systems.

Prerequisites

You should understand the consequences to your business of IT systems failure and want to improve your approach to Disaster Recovery.

COURSE OUTLINE

DAY ONE: Business Continuity Plan vs. Disaster Recovery Plan

Disaster Recovery (DR) Overview

- What is a Disaster?
- What is Disaster Recovery?
- What is Disaster Recovery Planning?

Initiating a DR Project

- Preplanning Considerations
- Gaining Support for DR Planning
- Identifying Project Structure and Resources

Analyzing Business Impact

- What is Business Impact Analysis?
- Identify Critical Areas
- Data Collection
- Analyze and Document

Continuity Strategy

- Planning an Operation Continuity Strategy

Creating a DR Plan

- The Disaster Recovery Plan
- Writing a Disaster Recovery Plan
- Testing and Maintaining the Disaster Recovery Plan
- After Disaster Recovery

DAY TWO: Storage Virtualization

What is Storage Virtualization?

- Defining Storage Virtualization
- What is being virtualized?
- Where does the virtualization occur?
- How is Virtualization implemented?

Why Use Storage Virtualization?

- Purpose of Storage Virtualization
- Storage Virtualization and Storage Architectures
- Storage Virtualization Benefits

Storage Virtualization Techniques

- Building blocks of Storage Virtualization
- Storage Layout Techniques
- Online Administration Techniques
- Techniques for increasing availability

Planning and Trends

- Assessing Your Storage Virtualization Needs

- The Quality of Storage Service Model
- Automating Storage Management
- New Roles in Storage Management

DAY Three: High Availability Concepts

High Availability Fundamentals

- What is High Availability?
- What High Availability is not
- Fault Resilient Clustering

High Availability Design Issues

- Cluster Design Principles
- Network Design Guidelines
- Failover Requirements

Clustering With Shared Storage

- Clustering Configuration Types
- Failover Granularity in Clusters

Clustering for Disaster Recovery

- Clustering Topologies for Disaster Recovery
- Local Failover Vs. Wide Area Failover
- Cluster Management

DAY Four: Replication vs. Backup

What is Replication?

- Defining Replication
- Replication Terms and Concepts
- Replication Options
- Replication Technologies

What is Real Time Replication vs. Scheduled Replication?

- Satisfying Business Needs
- Synchronous Mode Considerations
- Asynchronous Mode Considerations

Does Replication replace tape backups?

- Backup Vs Replication

Logical Threats to Data

- Logical Threats of Data
- Site Threats of Data

Bandwidth Availability for Critical Enterprise Applications

- Network Planning

Recovery Times

- Disaster Recovery Concepts

- Selecting a Recovery Site
- Overview of Disaster Recovery Technologies

Investment

- Costs

Planning and Defining Needs

- Business Objectives and Service Level Agreements (SLA)
- Role of Data Protection in Business Continuity

Solutions to Developing an Effective Data Protection Strategy

- Baseline Data Protection Methods
- Enhanced Data Protection Methods
- High Impact Data Protection Methods