

Nutanix Disaster Recovery (DR) on Microsoft Azure

COURSE CONTENT

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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

The Nutanix Disaster Recovery (DR) on Microsoft Azure Training offered by Multisoft Systems is designed to provide professionals with the knowledge and practical skills required to implement, manage, and optimise disaster recovery solutions in hybrid cloud environments. The course covers Nutanix DR architecture, Azure integration, workload replication, failover and failback processes, recovery planning, and business continuity strategies, enabling participants to build resilient and highly available enterprise infrastructures.

Module 1: Introduction to Nutanix and Disaster Recovery

- ✓ Overview of Nutanix Enterprise Cloud Platform
- ✓ Business Continuity and Disaster Recovery Fundamentals
- ✓ Understanding RPO and RTO Concepts
- ✓ DR Deployment Models
- ✓ Hybrid Cloud Architecture Overview
- ✓ Nutanix DR Use Cases
- ✓ Azure as a Disaster Recovery Site
- ✓ Disaster Recovery Best Practices

Module 2: Nutanix Architecture Fundamentals

- ✓ Nutanix Cluster Components
- ✓ Acropolis Hypervisor (AHV) Overview
- ✓ Nutanix Prism Central and Prism Element
- ✓ Storage Fabric Architecture
- ✓ Networking Fundamentals
- ✓ Nutanix Data Services
- ✓ Cluster Management and Operations
- ✓ High Availability Features

Module 3: Microsoft Azure Fundamentals for Nutanix

- ✓ Azure Compute Services
- ✓ Azure Virtual Networks (VNet)
- ✓ Azure Storage Services
- ✓ Azure Identity and Access Management
- ✓ Resource Groups and Subscriptions
- ✓ Azure Security Concepts
- ✓ Connectivity Between On-Premises and Azure
- ✓ Azure Cost and Resource Management

Module 4: Nutanix Cloud Clusters (NC2) on Azure

- ✓ Introduction to NC2 on Azure
- ✓ NC2 Architecture and Components
- ✓ Planning NC2 Deployment
- ✓ Azure Prerequisites and Requirements
- ✓ Deploying NC2 Environment
- ✓ Networking Configuration
- ✓ Storage Configuration
- ✓ Cluster Validation and Testing

Module 5: Protection Domains and Data Replication

- ✓ Understanding Protection Domains
- ✓ Creating Protection Policies
- ✓ VM Protection Configuration
- ✓ Snapshot Management
- ✓ Asynchronous Replication
- ✓ Cross-Region Replication
- ✓ Replication Scheduling
- ✓ Monitoring Replication Health

Module 6: Disaster Recovery Orchestration with Leap

- ✓ Introduction to Nutanix Leap
- ✓ Leap Architecture and Features
- ✓ Recovery Plan Creation
- ✓ Application Dependency Mapping
- ✓ Protection Policies Configuration
- ✓ Recovery Group Configuration
- ✓ Automated Runbooks
- ✓ Recovery Testing Procedures

Module 7: Failover Operations

- ✓ Planned Failover Process
- ✓ Unplanned Disaster Recovery Scenarios
- ✓ VM Recovery Procedures
- ✓ Network Mapping During Failover
- ✓ Recovery Validation Techniques
- ✓ Application Availability Verification
- ✓ Monitoring Recovery Status
- ✓ Best Practices for Failover Execution

Module 8: Failback Operations

- ✓ Understanding Failback Workflow
- ✓ Synchronization of Production Data
- ✓ Workload Migration Back to Primary Site
- ✓ Recovery Verification
- ✓ Application Testing After Failback
- ✓ Operational Considerations
- ✓ Failback Troubleshooting
- ✓ Reverse Replication Configuration

Module 9: Networking and Security for DR

- ✓ Azure Networking Integration
- ✓ VPN and ExpressRoute Connectivity
- ✓ Security Groups and Firewall Rules
- ✓ Identity and Access Management
- ✓ Data Encryption at Rest and In Transit
- ✓ Network Segmentation Strategies
- ✓ Security Compliance Requirements
- ✓ Secure DR Operations

Module 10: Monitoring, Automation and Optimization

- ✓ Prism Central Monitoring
- ✓ DR Health Dashboards
- ✓ Alerting and Notifications
- ✓ Capacity Planning
- ✓ Performance Monitoring
- ✓ Automation Strategies
- ✓ Cost Optimization Techniques
- ✓ Resource Utilization Management

Module 11: DR Testing and Validation

- ✓ Designing DR Test Plans
- ✓ Conducting Non-Disruptive DR Tests
- ✓ Recovery Validation Procedures
- ✓ Compliance and Audit Requirements
- ✓ Application Recovery Verification
- ✓ Documentation Standards
- ✓ Risk Assessment Techniques
- ✓ Continuous Improvement Processes

Module 12: Real-Time Projects and Enterprise Case Studies

- ✓ NC2 on Azure Deployment Project
- ✓ Protection Domain Configuration Project
- ✓ Multi-Tier Application DR Implementation
- ✓ Disaster Recovery Testing Exercise
- ✓ Failover and Failback Simulation
- ✓ Hybrid Cloud DR Case Study
- ✓ Enterprise Business Continuity Scenario
- ✓ End-to-End Nutanix DR on Azure Implementation Project