

Nutanix Core Infrastructure Workshop: Deployment, Prism Operations & LCM

Duration: 1 Day

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Module 1: Introduction to Nutanix Enterprise Cloud

- Overview of HCI (Hyper-Converged Infrastructure)
 - Nutanix Architecture: AOS, AHV, CVM, Prism
 - Understanding Storage, Compute, and Networking in Nutanix
 - Exploring the Nutanix environment interface
 - Navigating Prism Element dashboard
 - **Demo Lab**
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Module 2: Nutanix Installation & VM Creation

- Pre-requisites for Nutanix Deployment
 - Foundation Setup Overview
 - Initial Cluster Configuration
 - Storage Container Setup
 - Networking Configuration for VMs
 - Creating & Managing VMs in AHV
 - Deploying Nutanix CE or using pre-built cluster
 - Creating a VM on AHV
 - Configuring vNICs, Disks, and Snapshots
 - **Demo Lab**
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Module 3: Nutanix Prism (Element & Central)

- Prism Element Dashboard
 - Monitoring Health, Performance, and Capacity
 - Prism Central Architecture Overview
 - Role-Based Access Control
 - Policies and Projects
 - Workload Management
 - Registering a cluster with Prism Central
 - Navigating PC dashboards and configuring roles
 - **Demo Lab**
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Module 4: Nutanix Cluster Management

- Understanding Nutanix Cluster Components
 - Adding & Removing Nodes
 - Configuring Storage Pools & Containers
 - Data Resiliency and Replication (RF levels)
 - Cluster Expansion Scenarios
 - Exploring Cluster details in Prism
 - Checking RF status and Data Placement
 - Simulating a node maintenance mode
 - **Demo Lab**
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Module 5: Upgrade – AOS, Hypervisor Patches, and Firmware

- Understanding LCM (Life Cycle Management)
 - AOS Upgrade Workflow
 - AHV / Hypervisor Patch Application
 - Firmware & BIOS Updates using LCM
 - Best Practices Before Upgrade
 - Running an LCM Inventory
 - Simulating an AOS or Firmware upgrade (demo environment)
 - **Demo Lab**
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Module 6: Nutanix Health Check & Troubleshooting

- Key Health Parameters
 - Storage Utilization Checks
 - Capacity Forecasting
 - Log Collection & Analysis
 - Common Issues & Recommended Fixes
 - Running Cluster Health Checks
 - Generating Log Bundles
 - Analyzing Alerts
 - **Demo Lab**
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Module 7: Q&A and Wrap-Up

- Review of key learning outcomes
- Best practices for production deployment
- Open discussion