NECA Nutanix Enterprise Cloud Administration Training

COURSE CONTENT

About Multisoft

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About Course

The NECA Nutanix Enterprise Cloud Administration training by Multisoft Systems is designed to empower IT professionals with the skills needed to effectively deploy, manage, and optimize Nutanix-powered enterprise cloud solutions.

Module 1: Getting Started with a Nutanix Cluster

- ✓ Understand three-tier and hyperconverged infrastructure
- ✓ Understand Nutanix Cloud Solution Packages
- ✓ Understand nodes, blocks, clusters, and cluster services
- ✓ Get Started with Prism Central and Prism Element
- ✓ Understand when to use Prism Central and when to use Prism Element

Module 2: Securing a Nutanix Cluster

- ✓ Understand Nutanix's approach to security
- ✓ Use Prism Central to configure authentication, users, and RBAC
- ✓ Understand Policies in Flow Network Security
- ✓ Use Prism Element to configure Data-at-Rest Encryption

Module 3. Configuring Cluster Networking

- ✓ Understand AHV networking terminology
- ✓ Use Prism Central to monitor cluster networks
- ✓ Use Prism Element to explore the Network Visualizer
- ✓ Create and update subnets and virtual switches
- ✓ Understand subnet extension and network segmentation

Module 4: Managing Images

- ✓ Understand the image service
- ✓ Use Prism Central to monitor, upload, import, and manage images

Module 5: Creating Virtual Machines

- ✓ Use Prism Central to create VMs
- ✓ Use Prism Central's self-service capabilities to create VM templates
- ✓ Install and enable Nutanix Guest Tools

Module 6: Managing Virtual Machines

- ✓ Update, clone, customize, export, and apply placement rules to VMs
- ✓ Create and apply storage policies to VMs
- ✓ Create playbooks to automate common VM administrative tasks

Module 7: Protecting VMs and Their Data

- ✓ Understand data protection terms and concepts
- ✓ Understand synchronous and asynchronous replication capabilities
- ✓ Use Prism Element to configure local and remote backup and DR
- ✓ Use Prism Central to create protection policies with Leap

Module 8: Configuring and Managing Cluster Storage

- ✓ Understand AOS Distributed Storage
- ✓ Understand key storage concepts such as storage pools, storage containers, redundancy factor, replication factor, capacity reservation, and snapshots
- ✓ Understand fault tolerance and failure handling mechanisms
- ✓ Create and update storage containers
- ✓ Use various capacity optimization features

Module 9: Migrating Workloads with Nutanix Move

- ✓ Understand, install, and upgrade Nutanix Move
- ✓ Use Move to migrate VMs
- ✓ Download Move logs

Module 10: Monitoring Cluster Performance

- ✓ Understand performance monitoring features in Prism Central
- ✓ Create sessions, charts, and reports
- ✓ Create custom dashboards in Prism Central

Module 11: Monitoring Cluster Health

- ✓ Understand health monitoring features in Prism Central and Prism Element
- ✓ Get summarized and detailed health information from Prism
- ✓ Use Nutanix Cluster Check
- ✓ Collect logs

Module 12: Investigating and Remediating Performance Issues

- ✓ Understand alerts and events and the associated dashboards in Prism Central
- ✓ Identify problematic or inefficient VMs
- ✓ Potential methods of remediating problematic VMs

Module 13: Performing Cluster Maintenance

- ✓ Performing health checks
- ✓ Using maintenance mode
- ✓ Starting and stopping nodes and clusters
- ✓ Adding nodes to or removing nodes from clusters

Module 14: Upgrading Licenses, Software, and Firmware

- ✓ Understanding LCM and the LCM workflow
- ✓ Performing an upgrade using LCM
- ✓ Licensing a cluster and managing licenses