Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

Detalles de contacto

Avda Europa 21, 28108 Alcobendas

Email: formacion.ecs.es@arrow.com
Phone: +34 91 761 21 51

Nutanix Enterprise Cloud Administration (ECA) 6.10

CÓDIGO:	DURACIÓN:	Precio:
NUT_ECA_6-10	32 Hours (4 días)	A consultar

Description

If you already have experience administering a Nutanix environment, this course will extend, deepen and broaden your knowledge as you grow in your career as a Nutanix administrator.
In Nutanix Enterprise Cloud Administration (ECA), you'll focus on Prism Central.
This course provides a comprehensive look at Nutanix centralized management capabilities and allows you to explore the wide variety of features that are available in this web console.

Objetivos

ECA covers four key areas:

Core Nutanix Concepts: Gain a deep understanding of hyperconverged infrastructure (HCI) and the various Nutanix cloud solution packages. Learn the basics of cluster configuration and the components for creating and managing VMs – namely, networks and images.
VM Management: Explore how to create and manage VMs, work with projects, protect VMs and their data, apply storage optimization features at the VM level, and migrate your workloads to a Nutanix environment.
Monitoring and Troubleshooting: Learn about alerts, events, log collection, reporting, and how to use various features in Prism Central to identify, analyze and remediate performance issues.
Maintenance and Upgrades: Learn how to set up a cluster for maintenance activities – such as starting and stopping nodes and clusters – and how to upgrade installed software and firmware with just a few clicks.

Público

Administrators, engineers and others who manage Nutanix clusters in the datacenter
Managers and technical staff seeking information to drive purchase decisions
Anyone seeking the Nutanix Certified Professional-Multicloud Infrastructure (NCP-MCI) certification

Requisitos Previos

1-2 years of holistic IT infrastructure experience

Programa

1: Getting Started with a Nutanix cluster
Understand three-tier and HCI
Understand the Nutanix product portfolio
Understand nodes, blocks, clusters, and cluster services
Get started with Prism Central and Prism Element
Understand when to use Prism Central and Prism Element
Hands-on-Labs

Connecting to and exploring Prism Element
Adding data services IP, an NTP server, and a name server in Prism Element
Connecting to, exploring and configuring Prism Central
2: 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
Hands-on Labs

Creating unmanaged and managed networks
Exploring the AHV network configuration
Viewing virtual switches from Prism Element
3: Managing Images

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

Uploading and importing images to Prism Central
Configuring an image placement policy
4: Creating VMs

Use Prism Central to create VMs
Use Prism Central self-service capabilities to create VM templates
Use Projects in Prism Central
Install and enable Nutanix Guest Tools
Hands-on Labs

Creating Windows and Linux VMs
Installing Windows and Linux operating systems
Installing Nutanix Guest Tools on Windows and Linux
Creating a project
Exploring the Self-Service dashboard in Prism Central
5: Managing VMs

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
Hands-on Labs

Updating a VM
Assigning categories to a VM
Creating a snapshot and restoring a VM
Creating a template and a clone
Exporting a VM as an Open Virtual Appliance (OVA) file
Creating and running a playbook
6: Configuring and Managing Cluster Storage

Understand AOS 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
Create and update volume groups
Use various capacity optimization features
Hands-on Labs

Exploring the Storage dashboard
Creating containers with and without compression
Comparing data in a compressed vs uncompressed container
Configuring volume groups
Migrating vdisks between storage containers
7: Data Protection and Disaster Recovery

Understand data protection terms and concepts
Understand synchronous and asynchronous replication capabilities
Create snapshots and recovery points
Use Prism Element to configure local and remote backup and disaster recovery
Use Nutanix disaster recovery to create protection policies and recovery plans
Backup and restore Prism Central
Hands-on Labs

Backing up and restoring Prism Central
Configuring Self-Service Restore

Creating protection domains and local VM restore
Creating containers for replication
Configuring remote sites and creating protection domains
Performing VM migration and migrating back to primary
8: Securing a Nutanix Cluster

Understand the Nutanix approach to security
Use the Security dashboard in Prism Central
Use Prism Central to configure authentication, users and RBAC
Implement hardening features for AHV and the CVM
Understand policies in Flow Network Security
Understand data-at-rest encryption
Hands-on-Labs

Exploring the Security dashboard
Adding a local user
Adding Active Directory authentication
Configuring Role Mapping
Verifying a new user account
Cluster lockdown
9: Migrating Workloads with Nutanix Move

Understand, install and upgrade Nutanix Move
Use Move to migrate VMs
Download Move logs
Hands-on Labs

Preparing a VM for migration
Deploying a Move VM
Configuring Move and a migration plan
10: Monitoring Cluster Performance

Understand performance monitoring features in Prism Central
Create sessions, charts and reports
View and manage project resource utilization
Create custom dashboards in Prism Central
Resource planning and capacity runway
Hands-on Labs

Creating a Prism Central performance monitoring dashboard
Creating charts to analyze metrics using Prism Central
Creating and managing reports
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 and forward logs
Hands-on Labs

Using Nutanix Cluster Check health checks
Collecting logs for Support
Verifying cluster health
12: Maintaining and Upgrading a Cluster

Perform a health check
Use node-maintenance mode
Understand hardware upgrade and replacement tasks
Start and stop nodes and clusters
Add and remove nodes
Understand and explore Life Cycle Manager (LCM)
Use LCM to perform inventory and upgrades
Hands-on Labs

Using node maintenance mode
Performing upgrades with LCM (with and without internet access)
13: Investigating and Remediating Performance Issues

Understand alerts and events and the associated dashboards in Prism Central

Troubleshoot issues with protection policies, LCM, security, and performance
Identify problematic or inefficient VMs
Explore potential methods of remediating problematic VMs
Hands-on Labs

Working with Alerts
Exploring Events

Examen y certificación

Nutanix Certified Professional - Multicloud Infrastructure (NCP-MCI)
NCP-MCI certification holders have demonstrated the skills and knowledge to manage Nutanix AOS nodes, blocks, and clusters in the datacenter. Earning it validates your ability to deploy, administer, and troubleshoot Nutanix AOS, proving your mastery of key concepts from VM management to lifecycle operations.
Please note: The course material is intended to cover 70-80% of the knowledge on the exam, with the rest of your exam prep coming from independent study and/or experience.

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.