NCI Operations Workshop

Product Code: CNS-INF-A-WRK-OPS

At-a-Glance

Stage: Operate

The Nutanix Cloud Infrastructure (NCI) Operations Workshop offers IT teams in-depth insights and practical hands-on experience to operate the NCI environment successfully and perform advanced operations and troubleshooting. The workshop benefits customers who want to accelerate the preparation of new or existing operations team members. This workshop is beneficial during the Operate stage of a hybrid multicloud journey.

Service Scope

Delivered by highly skilled consultants with strong domain expertise and rich experience who begin the workshop with an overview of the NCI architecture and proceed to deep dive into operations, advanced concepts, and troubleshooting. The workshop combines theory and hands-on labs using the customer's deployed NCI or NC2 Cluster.

Upon completion of the workshop, operations teams will:

- Have an advanced understanding of the Nutanix architecture

- Be capable of operating the NCI or NC2 clusters at scale

- Be comfortable using Nutanix command line interface (CLI)

- Understand processes to follow during troubleshooting

The workshop includes the following topics and activities:

Nutanix Architecture Overview

- Introduction to Nutanix Architecture and NCI

- NCI or NC2 Cluster components

    o Distributed storage fabric

    o Major services (Curator, Zeus, Stargate, Cassandra, Genesis)

    o Resiliency (RF, failure scenarios, failure domains)

    Note: See the [Nutanix Glossary](#) on the Support Portal for more information about Nutanix terms and services.

- Nutanix management plane

    o Prism Element

    o Prism Central

    o CLI (ACLI, NCLI)

    o REST API

NCI Administration

- Nutanix AHV
    - NCI or NC2 cluster configuration
    - Virtual networking
    - Storage management
    - VM management
    - Categories
    - Image service
    - Nutanix Guest Tools
    - Data protection
    - Hardware management
    - Environment scaling
    - Lifecycle management
- VMware ESXi
    - NCI or NC2 cluster configuration
    - Virtual networking
    - Storage management
    - VM management
    - Snapshots
    - Data protection
    - Hardware management
    - Environment scaling
    - Lifecycle management
    - Recommended practices

Troubleshooting

- Using Prism Central to troubleshoot NCI
- Using CLI to troubleshoot NCI
- Understanding Nutanix alerting
- Creating and understanding performance graphs
- Opening Nutanix Support tickets
- Finding documentation and Best Practice Guides on the Support Portal
- Finding Nutanix Validated Design (NVD) and Solutions documentation

Advanced Operations (optional)

- NCM Intelligent Operations overview
- Role-based access control (RBAC) and NCM Self-Service overview

- Security management
- Disaster recovery (DR) overview

Demo or Hands-on Labs
- Infrastructure configuration
  - o Storage management
  - o Network configuration
  - o Image management
  - o Policy management
- VM Lifecycle
  - o VM create, read, update, and delete (CRUD) operations
  - o Category management
  - o Snapshot management
  - o VM placement management

Limitations

- For each quantity purchased, demo or hands-on labs are limited to a single on-premises NCI or NC2 cluster at a single physical site
- Workshop is limited to a maximum of 10 attendees

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI or NC2 cluster that meets all product requirements for the selected hypervisor and NCI.

  Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

- Fully supported and functional on-premises Prism Central instance for advanced operations (optional)

  Note: For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation *or* Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Hypervisor licenses for NCI

Deliverables

- Project Kickoff
- Project Schedule
- Workshop
- Labs
- Project Closeout

Duration

Typically 3 days, delivered consecutively

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)

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