

# Infrastructure Deployment for NCI-Edge

Product Code: CNS-INF-A-SVC-DEP-EDGE

## At-a-Glance

Stage: Deploy

The Infrastructure Deployment for NCI-Edge accelerates the deployment of NCI-Edge clusters. Designed as a strategic step in your hybrid multicloud journey—particularly during the Deploy phase—this service focuses on:

- Deploying NCI-Edge clusters
- Validating and configuring infrastructure based on Nutanix-recommended practices and customer-provided Design Document
- Streamlining deployment workflows to reduce complexity and accelerate time-to-value
- Delivering operational readiness through comprehensive documentation and enablement

## Related Services

- Infrastructure Design
- Infrastructure Deployment
- NCI Cluster Deployment or Expansion for Cisco
- Infrastructure Expansion
- NC2 Deployment

## Service Scope

Certified Nutanix consultants, equipped with deep domain expertise and hands-on experience, lead the deployment of NCI-Edge clusters. Following Nutanix-recommended practices, along with the customer-provided design document, consultants ensure a precise and efficient deployment.

Upon completion, the consultant delivers:

- A customized As-built Guide detailing the final deployed configuration
- An updated Configuration Workbook to support ongoing operations and future scalability

This comprehensive documentation provides your teams with a validated reference for managing and maintaining the deployed NCI-Edge environment.

## NCI-Edge Clusters

The service includes deploying a single NCI-Edge cluster at a single physical site according to customer-provided design and configuration documentation.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Deploy and configure NCI cluster, including recommended firmware (via LCM) and AOS
- Deploy and configure the hypervisor cluster on the deployed NCI cluster

- Configure LCM for automatic updates (online, dark site bundle, or via integrated into an existing dark site LCM webserver)
- Configure layer 2 virtual networking on hypervisor hosts
  - Configure hypervisor virtual switches
- Test and validate the deployed clusters

## Optional Activities

- Enable local key management service (KMS) for encryption
- For 2-node clusters, deploy and configure Witness Service
- Choose one of the following optional activities:
  - Deploy and configure a dark site LCM webserver running either IIS (Windows) or Apache (supported Linux OS) on the customer-provided VM image
  - Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*
  - Install and configure non-factory installed supported hardware (RAM, LAN, SSD, HDD, etc.)
  - Install and configure hardware and drivers for GPU
    - Install host drivers
    - Deploy GPU license server
    - Configure a single test VM for vGPU

## Project Management

Nutanix Project Management (PM) oversees Nutanix resources and aligns execution with your goals, scope, and timelines.

Core project management activities may include the following:

- Serve as a single point of contact for all project communication
- End-to-end Nutanix resource management
- Coordinate change window(s) and implementation schedules with customer
- Track and facilitate readiness and prerequisite completion
- Conduct project kickoff/technical readiness meeting(s)
- Integrate customer resources into the high-level project timeline
- Send status update(s)
- Manage timeline(s)
- Deliver created artifacts to the customer
- Facilitate project closeout activities

## Limitations

- For each quantity purchased, deployment is limited to a single NCI-Edge cluster. NCI Edge cluster node count is limited to either 1 or 2 nodes depending on the option purchased.
- Excludes the deployment of NCI-Edge clusters with 3 or more nodes.

**Note:** *Infrastructure Deployment* and *Infrastructure Expansion* are available for NCI-Edge clusters with 3 or more nodes

- Excludes deployment or expansion of on-premises NCI, Nutanix Compute, or dedicated NUS clusters

**Note:** *Infrastructure Deployment* and *Infrastructure Expansion* are available for on-premises NCI, Nutanix Compute, or dedicated NUS clusters

- Excludes deployment of the Cisco HCI UCS platform

**Note:** *NCI Cluster Deployment or Expansion for Cisco* is available for deployment of NCI on the Cisco HCI UCS.

- Excludes expansion of existing NCI-Edge clusters.
- Excludes creation or updates to existing Design Document
- Excludes deployment of NUS, NCI Flow Network Security, or NCI Advanced Replication
- Excludes deployment of EUC, AI/ML, Kubernetes, or database workloads
- For VMware vSphere clusters, vCenter Server Appliance (VCSA) deployment is limited to a single standalone appliance
- Excludes integration into an external KMS
- Excludes hardening of 3rd-party components, including VMware ESXi

## Supported Hypervisors

- Nutanix AHV
- VMware ESXi

## Project Management

- Excludes scheduling customer resources and activities
- Excludes detailed project plan (schedule) development and management
- Excludes responsibility for creating, managing, or delivering change management communications

## Prerequisites

- Hardware that meets all product requirements for the selected hypervisor on NCI-Edge

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

- Customer-provided Design Document
- Completed Pre-delivery Questionnaire

## Required Product Licenses

- NCI-Edge

**Note:** NCI-Edge Term license must run on a dedicated software licensed Edge cluster with no core-based licensing. Mixing of NCI license types in a cluster is not supported.

## Delivered Artifacts

| Delivered Artifact             | Description   |
|--------------------------------|---|
| Test Plan                      | Documents the Nutanix standard tests executed on the deployed solution and records the results of those tests to confirm the environment is ready for production use.                         |
| As-built Guide                 | Captures the final, deployed configuration of the solution, detailing how the environment was actually built and configured in comparison to the customer-provided design.                    |
| Updated Configuration Workbook | Updated during deployment, the workbook Captures all required configuration settings and decisions gathered during the design session to support accurate and consistent solution deployment. |

## Level of Effort

| NCI-Edge Cluster Size | Duration               |
|-----------------------|------------------------|
| 1-node                | Typically up to 2 days |
| 2-node                | Typically up to 3 days |

## Delivery Type

| Delivery Type | Delivery Activities  |
|---------------|--|
| In-person     | <ul style="list-style-type: none"> <li>In-person rack and stack of NCI-Edge cluster nodes</li> <li>In-person deployment</li> <li>Virtual project management</li> </ul> <p><b>Note:</b> Any in-person project management activities provided solely at Nutanix's discretion</p>   |
| Virtual       | <ul style="list-style-type: none"> <li>Virtual deployment</li> </ul> <p><b>Note:</b> Virtual delivery excludes rack and stack of NCI-Edge cluster nodes</p> <ul style="list-style-type: none"> <li>Virtual project management</li> </ul> <p><b>Note:</b> Any in-person project management activities provided solely at Nutanix's discretion</p> |

## Related Products

- Nutanix Cloud Infrastructure (NCI)

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