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 documentation
- Streamlining deployment workflows to reduce complexity and accelerate time-to-value
- Delivering operational readiness through comprehensive documentation and enablement

Related Services

- Infrastructure Design Workshop
- 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

- o 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
  - o 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:
  - o Deploy and configure a dark site LCM webserver running either IIS (Windows) or Apache (supported Linux OS) on the customer-provided VM image
  - o Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*
  - o Install and configure non-factory installed supported hardware (RAM, LAN, SDD, HDD, etc.)
  - o Install and configure hardware and drivers for GPU
    - Install host drivers
    - Deploy GPU license server
    - Configure a single test VM for vGPU

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, NCI-Compute, or dedicated NUS clusters

  Note: Infrastructure Deployment and Infrastructure Expansion are available for on-premises NCI, NCI-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 documentation
- 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

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-Install 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

- Test Plan
- As-built Guide

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	• In-person rack and stack of NCI-Edge cluster nodes • In-person deployment
Virtual	• Virtual deployment **Note:** Virtual delivery excludes rack and stack of NCI-Edge cluster nodes

Related Products

- Nutanix Cloud Infrastructure (NCI)

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