NCI Cluster Deployment or Expansion for Cisco

Product Code: CNS-INF-A-SVC-DEP-ONP-CSCO

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure (NCI) for Cisco with Intersight Integration service accelerates the deployment of on-premises NCI clusters on Cisco UCS infrastructure, ensuring a seamless and validated integration between compute and management platforms.

Designed as a strategic step in your hybrid multicloud journey—particularly during the Deploy phase—this service focuses on:

- Deploying NCI clusters on Cisco UCS using Intersight Standalone Mode (ISM) or Managed Mode (IMM)
- Validating and configuring infrastructure based on Nutanix and Cisco 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

- NCI Design for Cisco

Service Scope

Certified Nutanix consultants, equipped with deep domain expertise and hands-on experience, lead the deployment of on-premises NCI clusters on Cisco infrastructure with Cisco Intersight Integration. Following Nutanix and Cisco 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 environment.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Validate Cisco Intersight or UCS Server Platform pre-configuration
- Deploy and configure Cisco HCI UCS cluster, including recommended firmware (via LCM) and AOS using either Cisco Intersight Standalone Mode (ISM) or Cisco Intersight Managed Mode (IMM)
- Deploy and configure the hypervisor cluster on the deployed NCI cluster

  - For VMware vSphere clusters, integrate the vSphere cluster into an existing vCenter or deploy the vCenter Server Appliance (VCSA)
  - Configure LCM for automatic updates (online, dark site bundle, or via integration into an existing dark site LCM webserver)
- Configure layer 2 virtual networking on hypervisor hosts
  - Configure hypervisor virtual switches
- Deploy and integrate Prism Central
- Enable local key management service (KMS) for encryption (optional)
- Test and validate the deployed clusters

Optional Activities

- Choose one of the following:
  - 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 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 node
- Maximum of 64 nodes distributed in up to 4 on-premises NCI or dedicated NUS clusters of a single hypervisor type at a single physical site

- Each additional physical site requires a separate purchase of the *NCI Cluster Deployment or Expansion for Cisco* offer
- Excludes Cisco Intersight (standalone and managed modes), Fabric Interconnect, Fabric Extender and UCS Manager configurations
- 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 NCI External Storage integration
- 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 on the Cisco UCS platform.

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

- Customer-provided Design document
- Completed Pre-delivery Questionnaire
- Fabric Interconnect, Fabric Extenders, and other network infrastructure components must be deployed, configured, and functioning
- For Cisco Intersight integration, Cisco Intersight infrastructure services must be deployed, configured, and functioning
- Firewall rules to connect to Cisco Intersight and the internet must be implemented per https://www.intersight.com/help/saas/getting_started/system_requirements#port_requirements

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Core-based license
- Hypervisor licenses for NCI

Delivered Artifacts

Delivered Artifacts will be provided in English only. Delivery in additional languages must be mutually agreed upon in writing by both parties in advance and may be subject to additional fees.

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. Customer-specific screenshots are excluded and require a separate SOW.
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

Typically up to 4 days

> **Note:** Varies based on the number of nodes purchased

Delivery Type

Each purchase of Infrastructure Expansion will be delivered across consecutive days.

> **Note:** Delivery is in-person unless otherwise noted.

Delivery Type	Delivery Activities
In-person	• In-person rack and stack of on-premises NCI cluster nodes • In-person deployment • Virtual project management Note: Any in-person project management activities provided solely at Nutanix's discretion
Virtual	• Virtual deployment Note: Virtual delivery excludes rack and stack of on-premises NCI cluster nodes • Virtual project management Note: Any in-person project management activities provided solely at Nutanix's discretion

Related Products

- Nutanix Cloud Infrastructure (NCI)

Terms and Conditions

This document contains the entire scope of the service offer. Anything not explicitly included above is out of scope. This service offer is subject to the Nutanix Services General Terms and Conditions, which can be viewed at https://www.nutanix.com/support-services/consulting-services/terms-and-conditions

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