Infrastructure Deployment

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

At-a-Glance

Stage: Deploy

The Infrastructure Deployment service accelerates the deployment of on-premises NCI, NCI-Compute, or Dedicated NUS clusters. Designed as a strategic step in your hybrid multicloud journey—particularly during the Deploy phase—this service focuses on:

- Deploying on-premises NCI, NCI-Compute, or Dedicated NUS 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 for NCI-Edge
- NCI Cluster Deploy or Expansion for Cisco
- Infrastructure Expansion
- NUS Design Workshop
- NUS Deployment
- NC2 Deployment

Service Scope

Certified Nutanix consultants, equipped with deep domain expertise and hands-on experience, lead the deployment of on-premises NCI, NCI-Compute, or Dedicated NUS 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 on-premises NCI environment.

On-premises NCI, NCI-Compute, or Dedicated NUS Clusters

The service includes deploying up to 4 individual on-premises NCI clusters 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

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- Deploy and configure NCI cluster, including recommended firmware (via LCM) and AOS
- 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)
    - For Microsoft Hyper-V clusters, integrate Hyper-V cluster into an existing System Center Virtual Machine Manager (VMM)
    - Configure LCM for automatic updates (online, dark site bundle, or via integrated into an existing dark site LCM webserver)
    - Deploy and integrate Prism Central
- 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
- Choose one:
    - 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, SDD, HDD, etc.)
    - 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 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
- Excludes deployment of 1 and 2 node NCI-Edge clusters

> **Note:** Infrastructure Deployment for NCI-Edge is available for the deployment of 1 and 2 node NCI-Edge 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 platform.

- 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

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- 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 and Microsoft Hyper-V

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

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

  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

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

Delivered Artifacts

- Test Plan
- As-built Guide

Level of Effort

Typically 3 days (varies based upon the number of nodes purchased)

Delivery Type

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	Virtual deployment **Note**: Virtual delivery excludes rack and stack of on-premises NCI cluster nodes

Related Products

- Nutanix Cloud Infrastructure (NCI)

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