

# Infrastructure Expansion

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

## At-a-Glance

### Stage: Deploy

The Infrastructure Expansion service accelerates the expansion of existing hybrid cloud infrastructure to provide additional capacity for new applications and workloads. Highly skilled consultants can expand on-premises Nutanix Cloud Clusters (NCI) clusters or dedicated Nutanix Unified Storage (NUS) clusters with additional nodes from the same hardware manufacturer as the existing nodes. This offer is ideal for the Deploy stage of the Hybrid Multicloud journey.

## Related Services

- Infrastructure Design Workshop
- Infrastructure Deployment

## Service Scope

Highly skilled consultants with solid domain expertise and rich experience expand the NCI or dedicated NUS cluster(s) according to Nutanix recommended practices and the customer-provided design document. After the expansion, the consultant creates a customized As-built document and updated Configuration Workbook to document the final configuration of the cluster(s).

## On-premises NCI or Dedicated NUS Clusters

The service includes expanding up to 4 individual on-premises NCI clusters at a single physical location 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 nodes, including recommended firmware and AOS matching existing nodes
- Configure the hypervisor cluster on the expanded NCI cluster
  - For VMware vSphere clusters, integrate the new nodes into the existing vSphere cluster
  - For Microsoft Hyper-V clusters, integrate Hyper-V cluster into the existing System Center Virtual Machine Manager (VMM)
- Configure layer 2 virtual networking on hypervisor hosts
  - Configure hypervisor virtual switches to match the existing cluster
- Test and validate the expanded clusters (limited to non-disruptive testing)
- Optional services (choose one):
  - 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

## Limitations

- Expansion is limited to the number of nodes purchased with cluster expansion services
- Maximum of 64 nodes distributed in up to 4 NCI clusters of a single hypervisor type at a single physical site
- Excludes creation or updates to existing Design documentation
- Excludes upgrade of existing cluster hypervisor, AOS, firmware, or hardware
- Excludes deployment of NUS, NCI Flow Network Security, or NCI Advanced Replication
- Excludes deployment of EUC, AI/ML, or database workloads
- Excludes integration into an external key management service (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, NCI (as required)

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

- For VMware ESXi Hypervisor, Enhanced vMotion Compatibility (EVC) must be enabled for cluster expansions
- Customer-provided Design document
- Completed Pre-Install Questionnaire

## Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- Hypervisor licenses for NCI

## Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Expansion
- As-built Guide
- Project Closeout

## Duration

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

## 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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