

Infrastructure Design Workshop

Product Code: CNS-INF-A-WRK-DSGN

At-a-Glance

Stage: Design

The Nutanix Infrastructure Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for on-premises Nutanix Cloud Infrastructure (NCI) and Nutanix Cloud Clusters (NC2) clusters. It covers various aspects such as scalability, functionality, integration, and operational needs. This workshop is beneficial during the Design stage of a hybrid multicloud journey, especially for complex solutions that involve third-party applications and automation.

Related Services

- Infrastructure Deployment
- NC2 Deployment

Service Scope

A series of design workshops are delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, virtualization, and networking teams. After the design workshop, the consultant develops a Nutanix Design document and configuration workbook that addresses conceptual, logical, and physical solution design elements. It also details requirements, constraints, assumptions, design decisions, identified risks, and mitigations.

Essential Edition

For customers who want a basic Infrastructure design to run greenfield workloads.

The Essential Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NCI or NC2 architecture, including interoperability, security, and scalability for future growth
- Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and IP address management (IPAM)/domain name service (DNS) environments
- Develop NCI or NC2 cluster design
- Design virtual networking, including integration with the physical network
- Design public cloud platform connectivity, including mapping of network constructs from on-premises NCI to public cloud, as required
- Design public cloud platform resource access and usage (NC2 only)
- Design virtual storage, including container layout, compression, and de-duplication
- Design for Nutanix Unified Storage (NUS) data services (Objects, Volumes, or Files) (choice of 1, optional)
- Validate cluster sizing based on workload details provided by the customer

- Plan Controller Virtual Machine (CVM) and AHV security hardening and compliance as per the *Nutanix Security Operations Guide*
- Design management plane and operations dependencies, including Multicloud Manager (MCM) for NC2
- Develop a plan for system functional validation testing
- Design security, including data-at-rest encryption, SSL certificate, password complexity, and syslog

Advanced Edition

For customers looking for a more comprehensive design focused on migrating existing workloads and storage.

The Advanced Edition includes the following activities:

- Everything included in the Essential Edition
- Assess the current state of elements included in the design
- Assess datacenter infrastructure and rack design
- Plan for VM and data protection
- Design to support the migration of existing workloads and storage into the new environment
 - Review the existing environment at a high level to support sizing
 - Develop high-level migration methodology
- Design RBAC and Nutanix categories/tagging
- Design security and required cloud access controls
- Design for Nutanix Flow Virtual Networking VPC (optional)
- Design for Nutanix Flow Network Security Microsegmentation (optional)
- Design for all NUS data services (Objects, Volumes, and Files) (optional)

Site Design Topology

Each edition supports a single site or multisite disaster recovery (DR) topology design.

- **Single Site** – Single site design in a single physical site, public cloud region, or resource location
- **Multisite DR** – DR active/active, active/passive, or hub-spoke design configuration
 - Including data replication for NUS data services (Objects, Volumes, and Files)
 - Including Flow Virtual Networking VPC configurations spanning multiple locations (Advanced Edition only)
 - Gather recovery point objective (RPO) and recovery point objective (RTO) requirements for workloads, including DR and replication considerations

Limitations

- Limited to general virtualization. Workload-specific designs are available that include the NCI Design, including:
 - Database Design Workshop
 - EUC Broker Design Workshop.

- o AI/ML Design Workshop

- Excludes detailed migration planning. Detailed planning, including migration wave planning, is available as part of the Virtual Machine Migration Workshop.
- Excludes design for Cisco Intersight and Cisco UCS Fabric Interconnects

Single Site Edition

- For each quantity purchased, design is limited to a single production environment at one physical site, public cloud region, availability zone, or resource location for a single supported hypervisor

Multisite DR

- For each quantity purchased, design is limited to a single production environment spanning multiple physical sites, public cloud regions, availability zones, or resource locations
- Design is limited to 2 distinct site patterns, though multiple instances of each pattern can be deployed (common for hub-spoke or branch office architectures)

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- None

Related Product Licenses

- None

Delivered Artifacts

- Configuration Workbook
- Design Document (Standard only)

Duration

	Essential	Advanced
Single Site	Typically 8 Days	Typically 12 days
Multisite DR	Typically 12 days	Typically 17 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)

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