

NUS Design

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

At-a-Glance

Stage: Design

The Nutanix Unified Storage (NUS) Design offers IT teams comprehensive guidance and a structured approach to designing NUS on Nutanix Cloud Infrastructure (NCI). This engagement encompasses NUS Files and Nutanix Objects, addressing critical aspects such as scalability, high availability, disaster recovery, integration, and operational requirements. By focusing on collaboration and comprehensive documentation, the engagement empowers IT teams to ensure scalability, high availability (HA), and seamless integration with existing infrastructure, ultimately achieving optimal outcomes. This engagement is beneficial during the Design stage of a hybrid multicloud journey,

Related Services

- NUS Deployment
- Infrastructure Design
- Infrastructure Deployment

Service Scope

Delivered by highly skilled consultants with solid storage domain expertise and rich experience, the NUS Design service ensures that the solution requirements and required outcomes are identified. Designs require collaboration with key customer stakeholders from architecture, storage, virtualization, and networking teams. After the Design, the consultant develops a Design Document and configuration workbook that addresses conceptual, logical, and physical solution design elements.

The resulting NUS design can be deployed multiple times in various environments, such as development, test, and production, assuming the business and technical requirements remain the same.

Essential Edition

For customers who want to design a single instance of NUS Files or Objects deployed to a single physical site.

The Essential Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the design session
- Deliver an overview of high-level architecture and concepts of either NUS Files or Objects
- Review the customer's current landscape, use cases, and operations, and identify how NUS data services fit into the existing environment
- Assess resources for the existing on-premises NCI or NC2 environment, including available storage, memory, CPU, and network connectivity
- Evaluate and define the integration of other infrastructure services required for the deployment, including but not limited to Active Directory (AD), Domain Name Service (DNS), Network Time Protocol (NTP), directory services, identity services, etc.

NUS Files

- Define NUS File shares and share types based on the use case
- Identify requirements for Files Analytics or Data Lens
- Plan NUS Files Smart Tiering
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*

Note: For security hardening and compliance requirements, see *Nutanix Security Operations Guide* on the Nutanix Support Portal.

- Develop a validation plan that addresses the access and management of NUS Files

Nutanix Objects

- Define Nutanix Objects Store and bucket/s
- Define bucket options, including policies, versioning, lifecycle, and write once, read many (WORM)
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*

Advanced Edition

For customers who want to deploy both NUS Files and Objects to a pair of on-premises NCI or NC2 clusters deployed within a single physical site or across 2 physical sites for production and/or disaster recovery (DR) purposes.

The Advanced Edition includes the following activities:

- Everything included in the Essential Edition

NUS Files

- Design NUS Files DR options (Protection Domain or SmartDR)
- Plan NUS Files data management (Smart Tiering, Smart Sync, and self-service restore (SSR))
- Define requirements for Files Analytics or Data Lens.
- Develop a validation plan, including NUS Files failover and failback scenarios with non-production workloads.

NUS Objects

- Define bucket-level replication use case

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

- Excludes infrastructure design for on-premises NCI, dedicated NUS, or NC2 clusters.

Essential Edition

- For each quantity purchased, design is limited to a single instance of NUS Files or Objects on an on-premises NCI or NC2 cluster deployed within a single physical site

Advanced Edition

- For each quantity purchased, deployment is limited to a pair of on-premises NCI or NC2 clusters deployed within a single physical site or across 2 physical sites

Prerequisites

- None

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

Required Product Licenses

- None

Delivered Artifacts

Delivered Artifact	Description
Configuration Workbook	Captures all required configuration settings and decisions gathered during the design session to support accurate and consistent solution deployment.
Design Document	Captures the customer's solution architecture based on design session outcomes, detailing both high-level and low-level designs. It documents requirements, constraints, assumptions, and risks, and provides clear rationale for design decisions to ensure the solution meets performance, availability, scalability, and other critical objectives.

Level of Effort

Essential	Advanced
Typically 4 days	Typically 6 days

Delivery Type

Delivery Type	Delivery Activities
Virtual	<ul style="list-style-type: none">• Virtual design session• Virtual documentation• Virtual project management <p>Note: Any in-person project management activities provided solely at Nutanix's discretion</p>

Related Products

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

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