

June 2023

Professional Services

Service Descriptions

NUTANIX



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Nutanix Cloud Infrastructure (NCI) Services

NUTANIX

NCP Migration and Operations Workshop

Product Code: CNS-NCP-WRK-MGO

At-a-Glance

Stage: Plan

The Nutanix Cloud Platform (NCP) Migration and Operations Workshop gives IT teams in-depth insights and practical guidance to achieve a successful migration to NCP. This workshop is ideal for the Plan stage of a Hybrid Multicloud journey and is suitable for complex solutions, including software-defined networking, automation, databases, and end user computing.

Service Scope

Delivered by highly skilled consultants with solid domain expertise and rich experience, the workshop begins with a discovery session to understand the operating environment and required outcomes. Critical areas identified during the discovery session are then addressed in a customized workshop.

Upon completion of the customized workshop, IT teams will:

- Know the areas of consideration vital to achieving a successful migration to NCP
- Understand and know how to resolve challenges that could stall migrations
- Plan and drive an optimized, efficient transition to new technologies and operating models

Potential workshop topics include but are not limited to the following:

Nutanix Cloud Infrastructure (NCI)

- Migrate workloads from VMware vSphere to Nutanix AHV
- Migrate business-critical applications to Nutanix AHV
- Explore data protection and disaster recovery (DR) solutions
- Integrate 3rd-party solutions with NCI
- Execute a full-stack transformation
- Manage environmental and operational considerations
- Operationalize and automate infrastructure and workload lifecycle
- Understand operational considerations when re-platforming

Software-defined Networking

- Migrate from VMware NSX to Nutanix Flow Virtual Networking
- Integrate Cisco Appliance Centric Infrastructure (ACI) into Nutanix AHV

Automation

- Migrate from VMware Aria (VRA/VRO) to Nutanix Cloud Manager (NCM) Self-Service
- Integrate existing Ansible/Terraform deployments into Nutanix AHV
- Migrate from VMware Tanzu to Nutanix-based Container solutions
- Migrate from RedHat OpenShift on VMware ESXi to RedHat OpenShift on Nutanix AHV

Databases

- Migrate existing databases to Nutanix AHV
- Operationalize and automate database lifecycle with Nutanix Database Services (NDB)
- Migrate NDB from VMware ESXi to Nutanix AHV

End User Computing (EUC)

- Migrate Citrix on VMware ESXi to Nutanix AHV
- Migrate VMware Horizon to Citrix Virtual Apps and Desktops (CVAD) or Citrix Desktop-as-a-Service (DaaS)
- Migrate EUC users and their data to Nutanix Unified Storage (NUS) Files
- Explore EUC data protection and disaster recovery for EUC multisite solutions

Limitations

- Migration is not included in the workshop

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- Knowledge of current operations and existing product suite
- Understanding of future vision for the environment
- Completed discovery session and worksheet

Required Product Licenses

- None

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Workshop
- High-level Summary Presentation
- Project Closeout

Duration

Typically up to 4 days

Related Products

- Nutanix Cloud Platform (NCP)
- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Nutanix Database Services (NDB)
- End User Computing (EUC)

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NCI Design Workshop

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

At-a-Glance

Stage: Design

The Nutanix Cloud Infrastructure (NCI) Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for on-premises NCI 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.

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 NCI design elements. It also details requirements, constraints, assumptions, design decisions, identified risks, and mitigations.

Starter Edition

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

The Starter Edition includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NCI architecture
- Define integration with AD/LDAP and IPAM/DNS environments
- Develop NCI cluster design
- Design virtual networking, including integration with the physical network
- Design virtual storage
- Validate NCI sizing and platform selection based on workload details provided by the customer
- Develop a plan for system functional validation testing
- Design security including data-at-rest encryption, SSL certificate, password complexity, and syslog

Pro Edition

For customers looking for a more comprehensive design that focuses on migrating existing workloads and storage, including multisite architectures and disaster recovery (DR) capabilities.

The Pro Edition includes the following activities:

- Everything included in the Starter Edition
- Develop and plan a multisite on-premises design
- Design for one of the Nutanix Unified Storage (NUS) data services (Objects, Volumes, or Files)

- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*
- Assess datacenter infrastructure and rack design
- Gather RPO and RTO requirements for workloads, including DR and replication considerations
- 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 migration methodology

Ultimate Edition

For customers looking to fully transform and secure infrastructure with advanced RBAC, Flow Virtual Networking, or Flow Network Security.

The Ultimate Edition includes the following activities:

- Everything included in Starter and Pro Editions
- Assess the current state of elements included in the design
- Support multiple clusters
- Design RBAC and Nutanix categories/tagging
- Design for all Nutanix Unified Storage (NUS) data services (Objects, Volumes, or Files)
- Design for Nutanix Flow Virtual Networking (VPC) or Nutanix Flow Network Security Microsegmentation

Limitations

Starter Edition

- One production environment at one physical site for a single supported hypervisor
- Limited to general virtualization and database workloads; end user computing (EUC) workload designs are available via workload-specific offerings

Pro Edition

- Detailed migration planning is not included in the Pro Edition. It is available as part of the Virtual Machine Migration Workshop

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- None

Required Product Licenses

- None

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Workshop
- Project Closeout

Note: This offer is available with several documentation options, defined here <https://www.nutanix.com/support-services/consulting-services/documentation-tiers>

Duration

Starter: Typically up to 5 days *Pro:* Typically up to 10 Days *Ultimate:* Typically up to 15 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Nutanix Database Services (NDB)

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NCI Disaster Recovery Design Workshop

Product Code: CNS-INF-A-WRK-DRD-STD

At-a-Glance

Stage: Design

The Nutanix Cloud Infrastructure (NCI) Disaster Recovery (DR) Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive DR design for NCI based on Nutanix DR solutions, including Asynchronous, NearSync, Synchronous DR, and Metro Availability. This workshop is ideal during the Design stage of a Hybrid Multicloud journey for on-premises to on-premises disaster recovery.

Service Scope

Delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the disaster recovery 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 DR Design document and configuration workbook that addresses conceptual, logical, and physical NCR DR design elements. It also details requirements, constraints, assumptions, design decisions, identified risks, and mitigations.

The service includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions, including recovery point (RPO) and recovery time (RTO) requirements
- Map RPO and RTO requirements into a DR solution
- Review Nutanix DR technologies and how each would fit into a solution
- Review virtual infrastructure components and integration with the DR solution
- Develop a plan for system functional validation testing

Sync / Async / NearSync DR Solutions

- Design availability zones
- Design protection policies
- Design recovery plans
- Design custom IP mappings
- Design categories

Metro Availability Solutions

- Design remote sites
- Design witness
- Design containers
- Design DRS / Affinity / HA settings on VMware ESXi clusters

Protection Domain-based Solutions

- Design remote sites
- Design protection domains
- Design VM classification

Limitations

- NCI DR architecture for a single multi-cluster environment
- Limited to general virtualization workloads; database and end user computing (EUC) workload designs are available via workload-specific offerings

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- None

Required Product Licenses

- None

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Project Closeout
- Workshop

Note: This offer is available with several documentation options, defined here <https://www.nutanix.com/support-services/consulting-services/documentation-tiers>

Duration

Typically up to 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)

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NCI Cluster Deployment or Expansion

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

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure (NCI) Cluster Deployment or Expansion accelerates the deployment of hybrid cloud infrastructure to support any application and workload. IT Teams can deploy on-premises NCI clusters or dedicated Nutanix Unified Storage (NUS) clusters. The clusters can be deployed to various supported hardware platforms, regardless of whether it's Nutanix, our OEM partners, or other platform providers. This offering is ideal for the Deploy stage of the Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin deploying the NCI or dedicated NUS clusters according to Nutanix recommended practices and the customer-provided design document. After the deployment, the consultant creates a customized as-built document and updated configuration workbook to document the final configuration of the cluster(s).

Starter Edition

For customers who want to deploy up to 4 individual on-premises NCI clusters or expand an existing NCI cluster with additional nodes according to customer-provided design and configuration documentation during a single on-premises visit.

The Starter Edition is a basic NCI cluster deployment without any NUS data services and includes the following activities:

- Review customer-provided design and configuration documentation
- Configure layer 2 virtual networking on hypervisor hosts
 - Configure hypervisor vSwitch
- Deploy and configure NCI cluster, including recommended firmware 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 or integrated into an existing dark site webserver)
- Deploy and integrate Prism Central (optional)
- Enable local key management service for encryption (optional)
- Test and validate the deployed clusters

Pro Edition

For customers who want to deploy one of the available Nutanix Unified Storage data services: Objects, Volumes, or Files on one or more NCI clusters deployed with the Starter Edition.

The Pro Edition is appropriate for deploying dedicated NUS clusters and includes the following activities plus one of the optional activities:

- Everything included in the Starter Edition
- Deploy one NUS Files, Volumes, or Objects data service according to a customer-provided design and configuration documentation
 - NUS Objects:
 - Enable Nutanix Objects
 - Deploy object store
 - Generate API keys
 - Configure bucket(s)
 - Test and validate the NUS Objects deployment
 - NUS Volumes:
 - Configure the iSCSI target address
 - Configure volume groups
 - Test and validate the NUS Volumes deployment
 - NUS Files:
 - Deploy NUS Files
 - Configure file server and shares
 - Test and validate the NUS Files deployment
- Optional services (choose one):
 - Deploy and configure 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

Ultimate Edition

For customers who want to deploy any combination of the available Nutanix Unified Storage data services: Objects, Volumes, or Files on one or more NCI clusters deployed with the Starter Edition.

The Ultimate Edition is appropriate for deploying dedicated NUS clusters to consolidate all data services and includes the following activities plus one of the optional activities:

- Everything included in the Starter Edition
- Deploy any combination of NUS Files, Volumes, or Objects data service according to a customer-provided design and configuration documentation
 - NUS Objects:
 - Enable Nutanix Objects
 - Deploy object store
 - Generate API keys
 - Configure bucket(s)

- Test and validate the NUS Objects deployment
- NUS Volumes:
 - Configure the iSCSI target address
 - Configure volume groups
 - Test and validate the NUS Volumes deployment
- NUS Files:
 - Deploy NUS Files
 - Configure file server and shares
 - Test and validate the NUS Files deployment
- Optional activities: (choose one):
 - Deploy and configure 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

Limitations

- Maximum of 4 individual NCI or dedicated NUS clusters or 64 nodes at a single physical site
- Does not include creation or updates to existing design documentation

Starter Edition

- Hypervisor vSwitch limited to 2 vSwitches and 5 port groups
- For VMware vSphere clusters, vCenter Server Appliance (VCSA) deployment limited to one standalone appliance

Pro Edition

- Deployment of one NUS Files, Volumes, or Objects data service per NCI or dedicated NUS cluster up to a maximum of 4 clusters according to the customer-provided design (customer choice of one)

Ultimate Edition

- 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, and NUS (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.

- 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)
- Deployment
- As-built Guide
- Project Closeout

Duration

Starter: Typically up to 3 days

Pro: Typically up to 4 days

Ultimate: Typically up to 5 days

Note: Duration varies based on supported hypervisor, cluster, and node quantity

Related Products

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

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FastTrack for NCI Flow Network Security Microsegmentation

Product Code: CNS-INF-FST-FLOW

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Cloud Infrastructure (NCI) Flow Network Security Microsegmentation accelerates the deployment of Flow Network Security, which creates software-based firewalls that inspect traffic within the datacenter for critical applications and data. IT Network teams have a choice of available scenarios to deploy for their on-premises NCI cluster or Nutanix Cloud Clusters (NC2) for Amazon Web Services (AWS). This offer is ideal for the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement session to identify requirements. After the enablement session, the consultant configures NCI Flow Network Security for one of the available scenarios. Enablement sessions require collaboration with key customer stakeholders from networking, virtualization, and application teams.

The service includes the following activities:

- Conduct NCI Flow Network Security enablement session
 - Review AHV networking terminology
 - Discuss Flow Network Security policies
 - Explain the Flow Network Security policy evaluation order
 - Explain categories usage in Flow Network Security policies
- Configure and customize one of the following scenarios
 - Configure a single Application Security policy (2- or 3-tier)
 - Configure a single Isolation Environment policy
 - Configure a single Quarantine policy
 - Configure a Virtual Desktop Infrastructure (VDI) policy with support for AD groups

Limitations

- Limited to a single Prism Central instance
- Application Security policy limited to a total of 5 VMs in all tiers
- Isolation Environment policy limited to 5 VMs within a category
- Quarantine policy limited to 5 VMs
- VDI policy limited to 3 Active Directory groups, with 3 users per group

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) for AWS cluster that meets all product requirements for Flow Network Security
- Fully supported and functional on-premises Prism Central instance
- Prism Central and Prism Element time should be in sync
- Active Directory domain and user group requirements as required for the VDI policy

Note: For information on the requirements for configuring NCI Flow Network Security, see *Flow Microsegmentation Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Pro or Ultimate Edition

Deliverables

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

Duration

Typically up to 2 days, delivered remotely

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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FastTrack for NCI Flow Virtual Networking VPC

Product Code: CNS-INF-FST-FVN

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Cloud Infrastructure (NCI) Flow Virtual Networking (VPC) accelerates the deployment of software-defined network virtualization solutions, which provides overlay capabilities for on-premises Nutanix AHV clusters, with in-depth networking expertise from highly skilled consultants. IT Network teams have a choice of available scenarios to enable Flow Virtual Networking for on-premises sites. This offer is ideal for the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement and discovery session. After the enablement and discovery session, the consultant configures NCI Flow Virtual Networking for one of the available scenarios. Enablement sessions require collaboration with key customer stakeholders from networking, virtualization, and application teams.

Starter Edition

For customers who want to enable NCI Flow Virtual Networking for a single Prism Central in a single physical site.

The Starter Edition includes the following activities:

- Conduct NCI Flow Network Security enablement and discovery session
 - Provide NCI Flow Virtual Networking architecture overview
 - Analyse and determine physical network readiness
 - Describe VPC implementation
 - Plan VPC subnets
 - Plan connectivity to external subnets
 - Gather and document NAT gateway implementation requirements
 - Identify static route requirements
 - Discover management plane and operational dependencies
- Configure Flow Virtual Networking on Prism Central
 - Integrate Flow Virtual Networking into an existing DNS service
 - Create an external network (NAT)
 - Create VPCs
 - Create subnets
 - Configure and assign floating IPs

- Create policy-based routing policies for the following use cases
 - Traffic flow between subnets
 - Traffic flow in/out of a VPC
- Create and execute a Flow Virtual Networking Test Plan to validate the solution

Pro Edition

For customers who want to enable NCI Flow Virtual Networking for 2 Prism Central instances in 2 physical sites with VPN connectivity.

The Pro Edition includes the following activities:

- Everything included in the Starter Edition
- Enable Flow Virtual Networking on both Prism Central instances
- Configure a VPN endpoint between Prism Central instances

Limitations

Starter Edition

Configuration limited to:

- A single external network (NAT)
- 5 VPCs, 10 subnets per VPC, and 5 floating IPs per VPC
- 5 floating IPs per VPC and up to 10 VMs
- 5 policy-based routing policies

Pro Edition

- VPN endpoint configuration is limited to the on-premises Nutanix VPN gateway

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster(s) that meets all product requirements for Flow Network Security

Note: For information on the requirements for configuring NCI Flow Virtual Networking, see *Prerequisites for Flow Virtual Networking* on the Nutanix Support Portal.

- At least one external VLAN accessible from Prism Central
- Access to Customer networking team to implement static routes

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Pro or Ultimate Edition

Deliverables

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

Duration

Starter: Typically up to 4 days

Pro: Typically up to 5 days

Related Products

- Nutanix Cloud Infrastructure (NCI)

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NCI Disaster Recovery Deployment

Product Code: CNS-INF-SVC-DRD

At-a-Glance

Stage: Deploy

The Nutanix Cloud Infrastructure (NCI) Disaster Recovery (DR) Deployment accelerates the deployment of NCI DR solutions, including Asynchronous, NearSync, Synchronous DR, Metro Availability, and Protection Domain-based DR on on-premises NCI clusters. This offering is ideal for the Deploy stage of the Hybrid Multicloud journey for on-premises to on-premises disaster recovery.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by reviewing the customer-provided DR design document and requirements. The consultant then deploys and configures one of the supported DR solutions according to Nutanix recommended practices and the customer-provided design document. After the deployment, the consultant creates a customized as-built document and updated configuration workbook to document the final configuration of the cluster(s).

Asynchronous or NearSync DR Solution Edition

For customers deploying Asynchronous or NearSync replication between on-premises availability zones.

The Asynchronous or NearSync Edition includes the following activities:

- Review customer-provided DR design documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review requirements for Nutanix Guest Tools (NGT)
- Based upon customer-provided DR design:
 - Configure availability zones
 - Configure protection policies
 - Configure recovery plans
 - Configure custom IP mappings
- Deploy and integrate Prism Central, as required
- Install NGT (optional, requires supported guest operating systems)
- Test and validate recovery of nonproduction-protected VMs

Synchronous and Metro Availability Solution Edition

For customers deploying Nutanix synchronous replication to ensure a zero-data loss configuration between on-premises availability zones within a metro region.

The Metro Availability Solution Edition includes the following activities:

- Review customer-provided DR design documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review network bandwidth and latency to support synchronous replication

- Review Metro Availability operational modes (manual, automatic resume, witness)
- Based upon customer-provided DR design:
 - Configure remote sites on each NCI cluster
 - Deploy Metro Witness VM at 3rd site (optional)
 - Configure source and destination containers
 - Configure protection domain(s) between containers
 - For VMware ESXi clusters, configure DRS affinity rules and HA settings
- Migrate test VMs onto Metro Availability containers
- Test and validate migration of test VMs between sites
- Test and validate the DR process for failed site
- Test and validate the clean-up process and migration back to the primary site

Protection Domain-based Solution Edition

For customers leveraging legacy Protection Domain-based Async DR and NearSync DR technologies between on-premises availability zones.

The Protection Domain-based Solution Edition includes the following activities:

- Review customer-provided DR design documentation, RPO, and RTO requirements
- Review sizing for Nutanix snapshots
- Review requirements for Nutanix Guest Tools (NGT)
- Based upon customer-provided DR design:
 - Configure remote sites
 - Configure protection domains
 - Assign VMs to the protection domains
- Install NGT on VMs (optional)

Note: NGT is required for cross-hypervisor DR

- Test and validate recovery of nonproduction-protected VMs
 - Validate recovery from the primary site protection domain
 - Validate recovery from remote site protection domain
 - Validate protection domain migration (planned event)
 - Validate protection domain activation (unplanned event)
 - Validate post-DR clean-up procedures

Limitations

- Disaster Recovery to Nutanix Cloud availability zone (also known as Nutanix DRaaS) is not included

Asynchronous or NearSync DR Solution Edition

- Configuration limited to:
 - 2 availability zones
 - 5 protection policies

- 5 recovery plans
- 20 custom IP mappings
- Installation of NGT limited to 5 VMs
- Test and validate recovery of up to 5 nonproduction-protected VMs

Synchronous and Metro Availability Solution Edition

- Migrate up to 5 test VMs onto Metro Availability containers

Protection Domain-based Solution Edition

- Configure up to 10 protection domains
- Installation of NGT limited to 5 VMs
- Test and validate recovery of up to 5 nonproduction-protected VMs

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI source cluster and NCI target cluster that meets all product requirements for the selected DR solution.

Note: For information on the requirements for configuring Nutanix Disaster Recovery, see Disaster Recovery Requirements in *Nutanix Disaster Recovery Guide* on the Nutanix Support Portal.

- Completed Pre-Install Worksheet

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor license for NCI

Deliverables

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

Note: This offer is available with several documentation options, defined here <https://www.nutanix.com/support-services/consulting-services/documentation-tiers>

Duration

Async, NearSync, Sync:
Typically up to 3 days

Metro Availability:
Typically up to 3 days

Protection Domains:
Typically up to 2 days

Related Products

- Nutanix Cloud Infrastructure (NCI)

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FastTrack for Nutanix Move Application Migration

Product Code: CNS-INF-FST-MOVE

At-a-Glance

Stage: Migrate

FastTrack for Nutanix Move Application Migration accelerates the deployment of a cross-hypervisor mobility solution to migrate virtual machines (VMs) with minimal downtime with in-depth migration expertise from highly skilled consultants. Additionally, consultants demonstrate the migration of virtual machines. This offer is ideal for the Migrate state of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement session. After the enablement session, the consultant deploys and configures Nutanix Move and a single VM source and destination, minimizing the time for migrating VMs.

The service includes the following activities:

- Conduct a Nutanix Move Application Migration enablement session
 - Review integration among AOS and hypervisors
 - Provide Nutanix Move features and functionality overview
- Deploy Nutanix Move appliance
 - Configure Nutanix Move to connect to the VM source environment
 - Configure Nutanix Move to connect to the target cluster
 - Demonstrate migration of VMs

Limitations

- Deploy a single Nutanix Move appliance
- Connect to a single existing supported target cluster
- Connect to a single existing supported VM source environment
- Migration limited to 5 non-production VMs
- In-guest VM reconfiguration is not included

Supported Source Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V
- Microsoft Azure
- Amazon Web Service EC2

Prerequisites

- Fully supported and functional on-premises NCI cluster, Nutanix Cloud Clusters (NC2), or Microsoft Azure target cluster that meets all product requirements for Nutanix Move Application Migration
- Fully supported and functional source environment

Note: For information on the requirements for using Nutanix Move Application Migration, see *Move User Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI cluster

Deliverables

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

Duration

Typically up to 2 days delivered remotely

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)

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Nutanix Unified Storage (NUS) Services

NUS Mine Backup Appliance Deployment

Product Code: CNS-INF-SRV-DPD-MIN

At-a-Glance

Stage: Deploy

The Nutanix Unified Storage (NUS) Mine Backup Appliance Deployment accelerates the deployment of the Nutanix Mine dedicated backup solution with in-depth expertise from highly skilled consultants. IT Teams have a choice of available backup vendors when deploying component VMs on the on-premises dedicated NUS cluster, where the cluster storage is used to store backup workloads. This offer is ideal for the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by deploying and configuring the dedicated NUS cluster. After the cluster deployment, the consultant then deploys and configures the Mine Backup Appliance for one of the supported backup tools according to Nutanix recommended practices and customer-provided design document.

The service includes the following activities:

- Deploy dedicated NUS cluster
 - Review layer 2 networking requirements
 - Deploy cluster
 - Configure Nutanix AHV and NUS to support Mine
 - Integrate dedicated NUS cluster into Prism Central (optional)
 - Test and validate the deployed dedicated NUS cluster
- Deploy Nutanix Mine
 - Deploy foundation for Nutanix Mine VM
 - Deploy the backup engine
 - Configure integration between Veeam and Prism (as needed)
- Configure backup tool (per policy pack)
 - Configure up to five of the backup sources listed below
 - Configure backup policies and assign the configured sources based on the existing design
- Perform test backup and restore of a non-production VM
 - VM-level restore
 - File-level restore

Limitations

- Dedicated NUS cluster limited to single on-premises cluster with up to 8 nodes at a single physical site
- Backup tool configuration limited to a single supported backup tool

- Backup configuration limited to 5 sources and five backup policies
- Test backup and restore limited to a single VM-level restore and a single file-level restore

Supported Hypervisor

- Nutanix AHV

Supported Backup Tools

- HYCU
- Veeam
- Commvault

Supported Backup Sources

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V
- Physical Linux sources
- Physical Windows sources

Prerequisites

- Fully supported and functional on-premises dedicated NCI cluster with up to 8 nodes that meets all product requirements for NUS and NUS Mine Backup Appliance

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

- Completed Pre-install worksheet

Required Product Licenses

- Nutanix Unified Storage (NUS)
- Backup software licenses for the dedicated NUS cluster

Deliverables

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

Duration

Typically up to 4 days

Note: Duration varies based on the backup tool and the number of backup policies created

Related Products

- Nutanix Unified Storage (NUS)
- NUS Mine Integrated Backup

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FastTrack for Files

Product Code: CNS-INF-FST-FILES

At-a-Glance

Stage: Deploy

FastTrack for Files speeds up the enablement and deployment of the Nutanix Unified Storage (NUS) Files data service, providing scale-out distributed file storage solutions with in-depth expertise from highly skilled consultants. IT Storage teams have a choice of available deployment scenarios for on-premises NCI cluster, dedicated NUS cluster, or Nutanix Cloud Clusters (NC2). This offering is ideal during the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement and discovery session. After the enablement session, the consultant installs and configures the NUS Files data service for one of the available scenarios. Enablement sessions require collaboration with key customer stakeholders from storage, virtualization, and application teams.

The service includes the following activities:

- Conduct NUS Files enablement and discovery session
 - Provide NUS architectural overview
 - Review NUS Files features and functionality
 - Review integration with Nutanix Cloud Infrastructure (NCI), disaster recovery (DR), and NUS Files
 - Gather and document solution requirements
- Configure and customize one of the following scenarios:
 - Deploy NUS Files and copy non-nested SMB or NFS shares and one dataset
 - Deploy NUS Files and configure and demonstrate the protection domain or Smart DR process using a non-production environment
- Integrate NUS Files into existing antivirus solution using ICAP protocol (optional)

Limitations

- Limited to one of the listed scenarios
- Limited to one NCI, dedicated NUS, or NC2 cluster for non-Smart DR configurations and 2 clusters for Smart DR environments
- Copy of one dataset limited to 25GB
- Reconfiguration of client workstation(s) is not included

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises non-production NCI cluster, dedicated NUS cluster, or NC2 cluster that meets all product requirements
- Optional fully supported and functional on-premises disaster recovery NCI, dedicated NUS cluster, or NC2 cluster that meets all product requirements

Note: For information on NUS Files Prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

- Active Directory service accounts available for use by NUS Files
- Access to configure DNS, if not managed by Active Directory
- For Smart DR, both NCI and dedicated NUS clusters are managed under a single Nutanix Prism Central

Required Product Licenses

NCI Clusters

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS) Pro Edition

Dedicated NUS Clusters

- Nutanix Unified Storage (NUS) Pro Edition

Deliverables

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

Duration

Typically up to 2 days, delivered remotely

Related Products

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

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Nutanix Cloud Management (NCM) Services

FastTrack for NCM Intelligent Operations

Product Code: CNS-INF-FST-PC

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Cloud Manager (NCM) Intelligent Operations accelerate the configuration of advanced analytics and intelligent insights into managing the Nutanix Cloud Platform (NCP) with in-depth expertise from highly skilled consultants. IT teams have a choice of available scenarios for on-premises sites. This offer is ideal for the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement session. After the enablement session, the consultant configures NCM Intelligent Operations and one of the available scenarios.

The service includes the following activities:

- Conduct an NCM Intelligent Operations enablement session
 - Demonstrate utilization forecasting and what-if analysis
 - Demonstrate VM right-sizing using X-Play
- Create custom reports
- Create custom dashboards
- Choose one of the following supported scenarios:
 - Assistance integrating with a custom remote API
 - Demonstrate SQL monitoring
 - Demonstrate external VMware vCenter monitoring

Limitations

- Limited to one Prism Central instance
- Creation of up to 3 custom reports
- Creation of up to 3 custom dashboards
- If integrating with a custom remote API, a maximum of 4 hours spent

Supported Hypervisors

- Nutanix AHV
- VMware ESXi
- Microsoft Hyper-V

Prerequisites

- Fully supported and functional on-premises NCI cluster that meets all product requirements for Prism Central and NCM Intelligent Operations
- Fully supported and functional on-premises Prism Central instance

Note: For information on the requirements for configuring NCM Intelligent Operations, see *Prism Central Installation or Upgrade in Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Ability to resize Prism Central VM, if needed, to support chosen scenario
- Ability to download and import Nutanix-provided VMs for demonstration purposes

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM)
- Hypervisor licenses for NCI cluster

Deliverables

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

Duration

Typically up to 2 days, delivered remotely

Related Products

- Nutanix Cloud Manager (NCM)

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FastTrack for NCM Self-Service

Product Code: CNS-CAS-FST-CALM

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Cloud Manager (NCM) Self-Service accelerates the deployment and configuration of NCM Self-Service, which streamlines how teams manage, deploy, and scale applications across hybrid clouds with self-service, automation, and centralized role-based governance, with expertise from highly skilled automation consultants. This offer is ideal for the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid automation domain expertise and rich experience begin with an enablement session. After the enablement session, the consultant deploys and configures NCM Self-Service and imports and publishes an NCM Self-Service blueprint. Enablement sessions require collaboration with key stakeholders from virtualization, automation, and application teams.

The service includes the following activities:

- Conduct an enablement session introducing NCM Self-Service
 - Architectural overview and review of NCM Self-Service components
 - Overview of features and functions of NCM Self-Service
- Deploy and configure NCM Self-Service with one:
 - Project
 - Identity provider
 - Platform
- Import and publish one NCM Self-Service blueprint
 - Integrate Active Directory, including domain join and placement into a specific organizational unit (OU), static or dynamic IP addressing, DNS registration
 - Integrate an IPAM system (optional)
 - Demonstrate deployment of an NCM Self-Service Marketplace blueprint

Available Self-Service Blueprints

Guest OS:

- Windows Server 2019
- CentOS server 8.x
- RHEL server 8.x
- SLES 15.x
- Ubuntu server 20.x

Supported providers:

- Nutanix AHV
- VMware ESXi
- Microsoft Azure
- Amazon Web Services
- Google Cloud Platform

Limitations

- Enablement session limited to a maximum of ten participants
- Configuration limited to one project, identity provider, and platform
- Available identity providers include Active Directory, Open LDAP, or similar
- Imported Blueprints may include integration of one IPAM system: Prism, Infoblox, or BlueCat
- Blueprint deployment demonstration limited to 5 VMs from the published NCM Self-Service Marketplace

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

Prerequisites

- Fully supported and functional on-premises NCI cluster that meets all product requirements for Prism Central and NCM Self-Service

Note: For information on the requirements for deploying NCM Self-Service, see *Calm Prerequisites and Deployment* in *Calm Administration and Operations Guide* on the Nutanix Support Portal.

- Fully supported and functional on-premises Prism Central instance

Note: For information on the requirements for configuring NCM Intelligent Operations, see *Prism Central Installation or Upgrade* in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Preconfigured provider accounts

Note: For information on configuring provider accounts, see *Provider Accounts Setting in Calm* in *Calm Administration and Operations Guide* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Manager (NCM) Pro or Ultimate
- Hypervisor licenses for NCI

Deliverables

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

Duration

Typically up to 3 days, delivered remotely

Related Products

- Nutanix Cloud Manager (NCM)

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Nutanix Database Service (NDB) Services

Database Transformation Strategy KickStart

Product Code: CNS-DAY0-KST-DB

At-a-Glance

Stage: Plan

The Database Transformation Strategy Kickstart offers database teams in-depth insights and practical guidance to archive a successful database transformation. This Kickstart workshop is ideal for the Plan stage of a Hybrid Multicloud journey and is suitable for transforming databases to meet evolving demands of modern applications.

Service Scope

Delivered by highly skilled consultants with solid database domain expertise and rich experience, the KickStart workshop begins with a discovery session to understand the operating environment and required outcomes. Critical areas identified during the discovery session are then addressed in a customized workshop.

Upon completion of this workshop, database teams will:

- Know the areas of consideration vital to achieving desired business outcomes from database transformation
- Understand and know how to resolve challenges that stall database transformations
- Be able to plan and drive an optimized and efficient database transformation model
- Learn how Nutanix Database Service (NDB) helps run databases in a cost-effective environment that meets business requirements

Potential workshop topics include but are not limited to the following:

- Learn how to free up critical database resources to perform higher-value work
- Explore opportunities to automate database provisioning and management of operational activities like patching, upgrading, and cloning databases
- Identify opportunities to optimize cost through standardization, reduction of sprawl, and simplification
- Develop efficient resourcing models to grow the database footprint without increasing the database team
- Construct a DBaaS strategy for running databases in both public and private clouds
- Learn valuable data protection strategies that increase recoverability while minimizing storage costs
- Understand recommended practices that optimize database performance

Limitations

- Transformation activities are not included in the workshop

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Completed Database Questionnaire

Required Product Licenses

- None

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Workshop
- High-level Summary Presentation
- Project Closeout

Duration

Typically up to 2 hours, delivered remotely

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database Planning and Assessment Workshop

Product Code: CNS-DBM-A-WRK-PAS-STD

At-a-Glance

Stage: Assess

The Database Planning and Assessment Workshop offers database teams an assessment of the current database environment with the essential knowledge and planning insights needed to successfully bring databases workloads onto the Nutanix Cloud Platform (NCP). This workshop is ideal for the Assess stage of the Hybrid Multicloud journey.

Service Scope

Delivered by highly skilled consultants with solid database domain expertise and rich experience, the workshop begins with a discovery session. Utilizing the completed questionnaire, the consultant guides the database team through a detailed review of existing infrastructure, database footprint, and associated SLAs. The consultant assesses database and server performance metrics, working closely with database teams to discover pain points and identify where most of their time is spent. Database workshops require collaboration with key customer stakeholders from architecture, virtualization, and database teams.

Upon completion of this workshop, database teams will:

- Recognize areas for database improvement based on an in-depth review of the current design, environment, and operational processes
- Understand recommendations for improving the performance, scalability, and efficiency of the database platform when using Nutanix-based solutions

The service includes the following activities:

- Discover pain points and collect data
- Assess and summarize the database environment in terms of its current health and architecture, with a focus on technical aspects and business requirements
- Review and apply relevant industry database recommended practices
- Document clear recommendations for improving the performance, manageability, and scalability of the database environment in alignment with Nutanix solutions
- Leverage documentation to review recommended practices and communicate current infrastructure and database concerns to business stakeholders
- Discuss Nutanix-based solution migrating operational efficiency and performance

Limitations

- Each workshop covers one supported database listed below
- Quantity of databases limited to the quantity specified at the time of purchase
- Deployment and migration are not included in the workshop

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Completed Database Configuration Worksheet

Required Product Licenses

- None

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Workshop
- Assessment Report
- Project Closeout

Duration

Typically up to 3 days for the initial database, plus 4 hours for each additional database

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database Design Workshop

Product Code: CNS-DBM-A-WRK-DES-STD

At-a-Glance

Stage: Design

The Database Design Workshop provides invaluable support to database teams by offering in-depth and practical guidance for creating a robust and comprehensive design tailored explicitly for running databases on Nutanix Cloud Infrastructure (NCI) clusters or Nutanix Cloud Clusters (NC2). This workshop covers critical aspects, including capacity planning, performance optimization, security considerations, and ensuring high availability. The workshop proves particularly beneficial during the Design stage of a Hybrid Multicloud journey, especially for complex database solutions such as Database-as-a-Service (DBaaS). By leveraging the expertise gained from the workshop, database teams can ensure an optimized and well-architected database environment, enhancing performance, security, and overall operational efficiency.

Service Scope

Delivered by highly skilled consultants with strong database domain expertise and rich experience, begin with assessing the existing database environment and understanding capacity, performance, security, and availability requirements. After the design workshop, the consultant develops a Database Design document and Configuration workbook that addresses conceptual, logical, and physical database design elements. It also details requirements, constraints, assumptions, design decisions, identified risks, and mitigations. Database workshops require collaboration with key customer stakeholders from architecture, database, and application.

The service includes the following activities:

- Conduct a database design workshop:
 - Discuss the design goals and gather business and technical requirements, including risks, constraints, and assumptions
 - Review and validate requirements against existing NCI or NC2 cluster(s)
- Create a database design addressing requirements identified during the workshop, including:
 - NCI or NC2 cluster and database virtual machine (VM) sizing
 - NCI or NC2 cluster design, if applicable
 - Network requirements
 - Security
 - Data protection
 - Availability
 - Recoverability
- Ensure that the design includes recommended practices for both infrastructure and database engine

Limitations

- Each workshop covers one supported database listed below

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Completed Database Configuration Worksheet
- Existing database and database VM performance metrics

Required Product Licenses

- None

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Workshop
- Design Presentation
- Design Document
- Project Closeout

Duration

Typically up to 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Deployment and Database Migration - Starter Edition

Product Code: CNS-DBM-STR-STD

At-a-Glance

Stage: Deploy and Migrate

The Nutanix Database Services (NDB) Deployment and Database Migration Starter Edition offer database teams in-depth and practical guidance to create a comprehensive database migration plan for migrating databases to the Nutanix Cloud Platform (NCP). Additionally, highly skilled consultants migrate the databases and deploy and configure NDB. This offering benefits the Deploy and Migrate stages of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with a database migration planning workshop. After the migration workshop, the consultant develops a Migration Plan document and migrates the databases. The consultant then deploys and configures NDB and demonstrates database lifecycle management with NDB. Database workshops require collaboration with key customer stakeholders from architecture, virtualization, and database teams.

The Starter Edition includes the following activities:

Database Migration Planning and Migration

- Conduct a database migration planning workshop
- Create database migration plan and rollback options
- Deploy a database virtual machine (VM) and an empty database
- Validate source and target database(s)
- Migrate database(s)
- Validate the migrated database(s)

Database Reference VM Creation

- Collect Reference VM details
- Build Reference VM to meet NDB requirements
- Discuss recommended practices implemented in the Reference VM

NDB Deployment

- Conduct an architectural overview and review of NCI and NDB components
- Review NDB features and functionality
- Deploy and configure NDB
- Demonstrate the use of NDB based on the use case

Limitations

- Database migration is limited to 2 databases of the same supported database listed below or 2 TiB of total database size in a single migration wave
- NDB deployment is limited to a single NCI or NC2 cluster

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

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

- Completed Database Configuration Worksheet
- Template VM for a supported database type

Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Services (NDB)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Workshop
- Migration Plan
- Migration Procedure
- Migration Summary
- Deployment
- As-built Guide
- Project Closeout

Duration

Typically up to 8 days, delivered remotely

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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FastTrack for NDB

Product Code: CNS-DBM-FST-ERA

At-a-Glance

Stage: Deploy

FastTrack for Nutanix Database Service (NDB) accelerates the deployment of NDB, simplifying database management and speeding up software development across clouds. Database teams can deploy NDB on an on-premises Nutanix Cloud Infrastructure (NCI) cluster or Nutanix Cloud Clusters (NC2). Additionally, highly skilled consultants create a Database Reference VM for one of the supported databases. This offering is ideal for the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with creating a Database Reference virtual machine (VM). After creating the VM, the consultant installs and configures NDB and demonstrates database lifecycle management with NDB.

The service includes the following activities:

Database Reference VM Creation

- Collect Reference VM details
- Build Reference VM to meet NDB requirements
- Discuss recommended practices implemented in the Reference VM

NDB Deployment and Configuration

- Conduct an architectural overview and review of NCI and NDB components
- Review NDB features and functionality
- Deploy and configure NDB
- Demonstrate the use of NDB based on the use case

Limitations

- NDB deployment is limited to a single NCI or NC2 cluster
- Database Reference VM creation is limited to one of the supported databases listed below

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

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

- Completed Database Configuration Worksheet

Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Services (NDB)
- Hypervisor licenses for NCI
- Database software licenses for databases

Deliverables

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

Duration

Typically up to 4 days, delivered remotely

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Deployment

Product Code: CNS-DBM-A-SVC-EDP-STD

At-a-Glance

Stage: Deploy

Nutanix Database Service (NDB) Deployment accelerates the deployment of NDB, simplifying database management and speeding up software development across clouds. Database teams can deploy NDB on an on-premises Nutanix Cloud Infrastructure (NCI) cluster or Nutanix Cloud Clusters (NC2). Additionally, highly skilled consultants create a Database Reference VM for one of the supported databases. This offering is ideal for the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with creating a Database Reference virtual machine (VM). After creating the VM, the consultant installs and configures NDB and demonstrates database lifecycle management with NDB.

The service includes the following activities:

Database Reference Virtual Machine (VM) Creation

- Collect Reference VM details
- Build Reference VM to meet NDB requirements
- Discuss recommended practices implemented in the Reference VM

NDB Deployment and Configuration

- Conduct an architectural overview and review of NCI and NDB components
- Review NDB features and functionality
- Deploy and configure NDB
- Demonstrate the use of NDB based on the use case

Limitations

- NDB deployment is limited to a single NCI or NC2 cluster
- Database Reference VM creation is limited to one of the supported databases listed below

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

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

- Completed Database Configuration Worksheet

Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Services (NDB)
- Hypervisor licenses for NCI
- Database software licenses for databases

Deliverables

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

Duration

Typically up to 4 days, delivered remotely

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Database Patching

Product Code: CNS-DBM-A-SVC-PAT-STD

At-a-Glance

Stage: Deploy

Nutanix Database Service (NDB) Database Patching accelerates the deployment of NDB patching, which speeds the rollout of security patches across some or all the databases managed by NDB. This offering is ideal for the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin manually patching a database VM to create a software profile version. The consultant then demonstrates how to patch one non-production database VM.

The service includes the following activities:

- Collect information for existing Nutanix Cloud Infrastructure (NCI) cluster or Nutanix Cloud Clusters (NC2) and database server VMs registered to NDB
- Review NDB patching feature compatibility with the supported database type
- Verification of existing NDB instance
- Manually patch an existing database VM
- Create a new NDB software profile version
- Demonstrate how to apply the database patch to one non-production database VM

Limitations

- Limited to one NDB instance and one of the supported databases listed below
- NDB software profile version is limited to 1 existing profile
- NDB patching demonstration is limited to one non-production database

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

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

- Fully supported and functional NDB instance

Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

- One non-production database
- Existing NDB software profile
- Database patch from database vendor is accessible and available for use

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Services (NDB)
- Hypervisor licenses for NCI
- Database software licenses

Deliverables

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

Duration

Typically up to 2 days, delivered remotely

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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NDB Database Cloning

Product Code: CNS-DBM-A-SVC-ARC-STD

At-a-Glance

Stage: Deploy

Nutanix Database Service (NDB) Database Cloning offers database teams in-depth and practical guidance to create a comprehensive database cloning solution to protect and copy databases running on the Nutanix Cloud Platform and managed by NDB. NDB creates and refreshes clones to a point-in-time either by using database transaction logs or by using snapshots. Clones are created and refreshed to point-in-time in minutes, accelerating clone and refresh operations. This offer benefits the Deploy stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with an enablement session providing an overview of how to define service-level agreements (SLAs) in NDB and how to apply those SLAs to databases through the NDB Time Machine. NDB Time Machine leverages the Nutanix time-efficient snapshots to create database clones. These database clones are highly space-efficient, consuming near-zero bytes with only the further writes constituting its size, significantly lowering the cost of managing multiple copies of databases. After the enablement session, the consultant configures and demonstrates NDB Time Machine and copy data management (CDM) for database cloning. Enablement sessions require collaboration with key stakeholders from database and backup teams.

The service includes the following activities:

- Conduct an enablement session introducing NDB Time Machine and Cloning
 - Provide an overview of the backup architecture of the supported database and how NDB SLA constructs are based on backup policies
 - Explain the significance of the NDB Time Machine in defining backup policies
 - Explain how to configure SLAs in terms of backup and retention
 - Understand backup and recovery requirements and define SLA policies
 - Explain database backup management using SLAs
 - Snapshot frequency based on the defined RPO and RTO
 - Log catch-up requirement
- Demonstrate database protection and restoration from Time Machine
- Configure NDB CDM for one of the supported databases listed below
- Demonstrate NDB CDM options for creating clones, including:
 - Schedule
 - Refresh
 - Pre/Post command execution

Limitations

- Cloning is limited to one NDB instance and one supported database listed below
- Definition of SLAs limited to 2 SLA profiles based on business requirements
- Demonstrations limited to 1 non-production database VM

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

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

- Fully supported and functional NDB instance

Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see *NDB Software Compatibility with Nutanix and VMware Product in Nutanix Database Service Release Notes* on the Nutanix Support Portal.

- One non-production database
- Existing database Time Machine for cloning

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Services (NDB)
- Hypervisor licenses for NCI
- Database software licenses

Deliverables

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

Duration

Typically up to 2 days, delivered remotely

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database Migration Planning Workshop

Product Code: CNS-DBM-A-WRK-MIG-STD

At-a-Glance

Stage: Migrate

The Database Migration Planning Workshop offers database teams in-depth and practical guidance to create a comprehensive database migration plan for migrating databases to the Nutanix Cloud Platform (NCP). Additionally, highly skilled consultants migrate a test database. This offering benefits the Migrate stage of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with solid database domain expertise and rich experience begin with a discovery session that collects availability requirements, current and desired database versions, application dependencies, and maintenance windows. The consultant then conducts a workshop based on the discussions undertaken during the discovery session and creates a migration plan. Migration of a test database is also performed.

Note: Database workshops require collaboration with key customer stakeholders from architecture, virtualization, and database teams.

The service includes the following activities:

- Conduct a database migration discovery session:
 - Discuss migration goals such as availability requirements, current and desired database versions, application dependencies, and maintenance windows.
- Conduct database migration workshop:
 - Discuss migration options and constraints for each migration method based on the database versions, operating system, and application availability
 - Review database sizing and performance requirements
- Create database migration plan and rollback options
- Conduct migration of a test database to NCP

Limitations

- Database migration is limited to one of the supported databases listed below and one test database of 200 GB of total database size

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

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

- Completed Database Configuration Worksheet
- Template VM for a supported database type

Note: For information on the supported AOS, AHV, and vSphere software versions for NDB, see NDB Software Compatibility with Nutanix and VMware Product in *Nutanix Database Service Release Notes* on the Nutanix Support Portal.

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Database Services (NDB)
- Database software licenses for target databases

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Workshop
- Migration Plan
- Migration Summary
- Project Closeout

Duration

Typically up to 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database Migration

Product Code: CNS-DBM-A-MIG

At-a-Glance

Stage: Migrate

Database Migration offers database teams strong database domain expertise to migrate database workloads to the Nutanix Cloud Platform (NCP). This offer is ideal for the Migrate state of a Hybrid Multicloud journey.

Service Scope

Highly skilled consultants with strong database domain expertise and rich experience begin with validating the customer-provided migration plan to ensure the database migration requirements and rollback options are valid. The consultant then migrates the database(s) according to the migration plan.

This service includes the following activities:

- Validate database migration plan and rollback options
- Validate source and target database(s)
- Migrate the database(s) based on the migration plan
- Validate migrated database data and application connectivity after migration

Limitations

- Migration planning is not included
- Quantity of databases and total database TiB limited to the quantity specified at the time of purchase
- Minimum of 3 databases per migration wave is required
- Performance validation after the migration is not included but is available as a separate custom statement of work (SOW)

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Customer-provided database migration plan
- Fully supported and functional on-premises NCI cluster or Nutanix Cloud Clusters (NC2) that meets all product requirements

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

- Completed Database Configuration Worksheet
- Target database VMs running on NCI or NC2 cluster

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Migration
- Migration Procedure
- Migration Summary
- Project Closeout

Duration

Typically 5 days per 2 databases or 2 TiB size, plus 12 hours for each additional database or 1 TiB.

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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Database FitCheck

Product Code: CNS-DBM-A-SVC-FIT

At-a-Glance

Stage: Optimize

The Database FitCheck offers database teams in-depth and practical guidance to identify potential performance issues, misconfiguration, and recommended practices for databases for running databases on Nutanix Cloud Infrastructure (NCI) clusters or Nutanix Cloud Clusters (NC2). The offering proves potentially beneficial during the Optimize stage of a Hybrid Multicloud journey, especially for complex database solutions such as Database-as-a-Service (DBaaS). By leveraging the expertise gained from FitCheck, database teams can ensure an optimized and high-performing database environment.

Service Scope

A series of workshops are delivered by highly skilled consultants with strong database domain expertise and rich experience to evaluate existing supported databases deployed on a single on-premises NCI cluster or NC2 according to Nutanix recommended practices. After the assessment, the consultant creates a customized Findings Report with the current configuration of the databases and recommended remediations.

This service includes the following activities:

- Discover pain points and collect data on previous and existing support tickets
- Conduct a series of workshops with key customer stakeholders and subject matter experts (SMEs) to review recommended practices in various layers of the full technology stack, including NCI/NC2, hypervisor, and database
- Assess the current full-stack deployment in terms of configuration, operations, and usage
- Review the environment post-deployment to confirm a supported configuration that is aligned with Nutanix recommended practices
- Provide clear recommendations to improve the performance, manageability, and scalability of the database environment
- Serve as a reference to review recommended practices and communicate current infrastructure and database issues to stakeholders

Limitations

- Each FitCheck covers one NCI or NC2 cluster and one supported database listed below
- Quantity of databases limited to the quantity specified at the time of purchase
- Remediation of identified issues is not included but is available as a custom statement of work (SOW)

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Prerequisites

- Supported and functional on-premises NCI cluster or NC2

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

- Completed Database Configuration Worksheet
- Customer-provided database and database virtual machine (VM) performance metrics

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Hypervisor licenses for NCI
- Database software licenses

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- As-built Guide(s)
- FitCheck Findings Presentation (optional)
- FitCheck Report
- Project Closeout

Duration

Typically up to 3-1/2-days for the first database and 6 hours for each additional database

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Database Service (NDB)

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