

Database Modernization

Database Automation Starter with Nutanix Database Service

BENEFITS

- Accelerate adoption of NDB by leveraging the knowledge of our experienced consultants
- Get started with NDB and understand how to simplify database operations in your environment
- Identify requirements and considerations to support provisioning, cloning, patching, backup and restoration of databases

OVERVIEW

The Database Automation Starter with Nutanix Database Service (NDB), formerly Era, is aimed at getting you up and running quickly on NDB. NDB makes Nutanix Enterprise Cloud the ideal platform to run enterprise-grade databases. NDB is a software suite that automates and simplifies database administration, bringing one-click simplicity and invisible operations to database lifecycle management (LCM) such as database provisioning, copy data management, data protection and patch management services. The API-first architecture makes it easy to integrate Database as a Service (DBaaS) into your environment.

The Starter with NDB service includes NDB installation service, providing you with hands-on experience guided by knowledgeable consultants who evaluate and implement NDB in your environment. This service helps you to rapidly gain experience with the product and how to leverage it to simplify database operations.



NDB Starter service also includes database migration using lift-and-shift or lift-and-reshape. The service is intended for small- to medium-sized standalone database workloads (with no latency sensitivity) migrating to Nutanix Enterprise Cloud platform using Nutanix's Move software or Storage vMotion.

SERVICE SCOPE

The NDB installation and configuration service is scoped for up to 3 days and includes NDB deployment and installation for a single cluster.

Delivers a product overview session, including the following activities:

- Collect information about your existing primary Nutanix cluster and the database VM (brownfield) on that cluster
- Conduct an architectural overview and review of Nutanix AOS, Hypervisor, Prism and NDB components

PREREQUISITES

- Existing and functional system running the latest versions of Nutanix software: AOS and supported hypervisors (VMware vSphere or Nutanix AHV)
- Appropriate Nutanix product licenses
- Appropriate operating system and database software licenses
- Brownfield databases already running on Nutanix and adhering to best practices
- Firewall ports open between the database server, NDB server, NDB Agent VM, Prism, Active Directory and vCenter server
- Compute and storage resources available on Nutanix Cluster along with IP address for NDB Agent VM deployment to enable NDB multi-cluster

- Review features and functions of NDB, including database provisioning, cloning and patch management for common use cases
- Conduct a deep-dive session describing NDB constructs such as profiles, Time Machines, RBAC and programmatic access via CLI and API interfaces
- Demonstrate the use of software, compute, network and database parameter profiles for showcasing one-click database provisioning and standardization
- Demonstrate how an existing database server running on Nutanix can be registered and protected by NDB Time Machine to facilitate database protection and cloning
- Discuss different approaches for migrating legacy virtual and physical databases to the Nutanix platform

Set up NDB and demonstrate functionality:

- Create one required network/vLAN in Prism Element and add vLAN to NDB, then create the network profile
- Create one compute, one network (clustered network profile, if needed) and one database parameter profile for one database of your choice (Oracle databases/SQL Server/MySQL/MariaDB/PostgreSQL)
- Demonstrate and setup RBAC and notifications (up to 2 user accounts)
- Register existing (brownfield) Oracle databases, Microsoft SQL Server, MySQL, MariaDB or PostgreSQL to NDB (if they are running on the Nutanix cluster where the NDB appliance is running) or to the Nutanix cluster managed by NDB, and then create the Time Machine
- Provision new databases on the registered Oracle databases or Microsoft SQL Server, and then create the Time Machine
- Clone database data from an existing Time Machine to new or existing database servers (authorized server) running on Nutanix, including scheduled data refresh (validate one database clone)

Note: For additional cluster installations, procure additional FastTrack services as needed.

Database Migration Service includes:

The Database Migration - Lift & Shift/Reshape service includes migration of database server VMs using either a lift-and-shift or lift-and-reshape operation.

This fixed-outcome service is acquired in 'packs' of database VMs of up to 2 TB in size. For each acquired pack, a Nutanix consultant migrates database VMs of up to 2 TB in a single contiguous migration wave. Multiple packs must be acquired to accommodate larger quantities of database VM workloads and associated database migrations.

Migration service:

The Database Migration - Lift & Shift/Reshape service is scoped for 5 days and employs the following approach:

- Deploy Nutanix Move and configure the current infrastructure as required for the migration process or use VMware Storage vMotion
- Conduct a Database Discovery Workshop to collect and review the list of database server VMs and to determine if they qualify for migration with Nutanix Move or VMware Storage vMotion

DELIVERABLES

- NDB As-built Guide
- Knowledge Transfer Workshop with up to 5 participants
- Database Discovery Workshop
- Final Migration Report, including applied best practices for lift-and-shift or reshape migrations

TASKS

	Duration
NDB installation	up to 3 days
Lift and shift/reshape migration	up to 5 days

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 that can be viewed at <https://www.nutanix.com/support-services/consulting-services/terms-and-conditions>



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