

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.

Related Services

- NDB Deployment and Database Migration
- NDB Deployment

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

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

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 Service (NDB)
- Hypervisor licenses for NCI
- Database software licenses for target databases

Delivered Artifacts

- As-built Guide

Duration

Typically up to 2 days, delivered remotely

Note: In-person delivery may incur additional charges.

Related Products

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

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