

# Database Modernization

## Backup Architecture & Copy Data Management

### BENEFITS

- Get started with Nutanix NDB platform and understand how best to simplify database operations in your environment
- Identify requirements and considerations to support provisioning, cloning and patching of databases

### OVERVIEW

Nutanix Database Service (NDB) platform makes Nutanix Enterprise Cloud the ideal platform to run databases.

The copy data management (CDM) feature of NDB enables you to clone your source database using snapshots or transactional logs. NDB uses Nutanix storage-efficient and time-efficient snapshots, thereby lowering the cost of managing multiple copies of your database. This feature can be used with databases such as Oracle, MSSQL, PostgreSQL, MySQL and databases on MariaDB. The NDB CDM feature reduces the time taken to create clones and the complexity to maintain them. The CDM service clone can be scheduled and refreshed to a point in time within minutes, making it highly time efficient.

CDM works based on defined SLAs according to business needs. SLAs can be based on RTO and RPO needs of the organization. SLAs are the data retention policies that specify how long snapshots should be retained and can be customized according to your business needs.

### SERVICE SCOPE

[Deliver a service overview session introducing NDB CDM](#)

- Architectural overview of NDB CDM
- Review features and functions of NDB CDM, including database restore, cloning with snapshot and Point In Time Recovery (PITR)
- Demonstrate (in your environment) how an existing database server running on Nutanix can be registered with Time Machine and apply an SLA
- Clone database data from a Time Machine into new and existing database servers running on Nutanix, including scheduled data refresh (up to one database type)
- Discuss and demonstrate CDM options for creating clones
  1. Schedule
  2. Refresh
  3. Pre / post command execution

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## PREREQUISITES

- Existing and functional Nutanix NDB platform running latest versions of AOS, AHV/ESX
- Appropriate Nutanix product licenses
- Databases must already run on Nutanix

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## DELIVERABLES

- Conduct a knowledge transfer workshop for NDB CDM and backup architecture
- Provide NDB CDM configuration scenarios as per the defined scope
- Create SLAs in NDB based on RPO and RTO requirements
- Apply SLAs while registering database to NDB and create Time Machine

### Deliver a service overview session introducing database backup architecture

- Conduct a deep-dive session describing backup architecture of any database and how NDB SLA constructs are based on backup policies
- Explain the significance of Time Machine in defining backup policies
- Explain how to configure SLAs in terms of backup and retention
- Understand your SLA requirements and demonstrate creation of backup policies
- Explain database backup management using SLAs
  1. Snapshot frequency based on the defined RPO and RTO
  2. Log catch-up requirement
- Demonstrate a database restoration from Time Machine in your environment
- Configure copy data management for one database type (Oracle/SQL Server/PostgreSQL/MySQL)

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## TASK

	Duration
NDB Backup and Copy Data Management Service	typically 2 days

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## TERMS AND CONDITIONS

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