

Database Design

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

At-a-Glance

Stage: Design

The Database Design provides invaluable support to database teams by offer 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 engagement covers critical aspects, including capacity planning, performance optimization, security considerations, and ensuring high availability. The engagement 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 design session, database teams can ensure an optimized and well-architected database environment, enhancing performance, security, and overall operational efficiency.

Related Services

- Database Planning and Assessment
- Database Recommended Practices
- Infrastructure Design

Service Scope

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, 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 design sessions require collaboration with key customer stakeholders from architecture, databases, and applications.

The service includes the following activities:

- Conduct a database design session:
 - 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 design session, including:
 - NCI or NC2 cluster and database virtual machine (VM) sizing
 - NCI or NC2 storage design, if applicable
 - Network requirements
 - Security
 - Data protection
 - Availability

- Recoverability
- Ensure that the design includes recommended practices for both VM and database engine

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

- For each quantity purchased, design is limited to up to 5 databases for one of the supported databases listed below
- Excludes Nutanix Database Service (NDB) design
- Excludes core infrastructure design

Supported Databases

- Microsoft SQL Server
- Oracle
- PostgreSQL

Supported Hypervisors

- Nutanix AHV
- VMware ESXi

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

Prerequisites

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

Required Product Licenses

- None

Delivered Artifacts

Delivered Artifact	Description
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

Typically up to 3 days

Delivery Type

Delivery Type	Delivery Activities
In-person	<ul style="list-style-type: none">• In-person 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 Database Service (NDB)

Terms and Conditions

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