AI/ML Design Workshop

Product Code: CNS-NAI-A-AIML-DSN-SD

At-a-Glance

Stage: Design

The Nutanix Artificial Intelligence/Machine Learning (AI/ML) Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive infrastructure design for AI/ML workloads based on a Generative Pre-trained Transformer (GPT). It covers various aspects such as performance, scalability, flexibility, integration, and operational needs. This workshop is beneficial during the Design stage of the AI/ML solution journey.

Related Services

- AI/ML Planning Workshop
- NAI Deployment
- AI/ML Strategy & Optimization Workshop Series

Service Scope

A series of design workshops is delivered by a highly skilled consultant with strong domain expertise and rich experience to ensure that the solution requirements and required outcomes are identified. The consultant works collaboratively with key customer stakeholders from architecture, virtualization, and networking teams during the design workshop to gather requirements and develop the design. After the Design workshop, the consultant develops an infrastructure Design document for the Al/ML inference platform, a configuration workbook that addresses conceptual, logical, and physical NCI design elements. This service includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
- Develop NCI cluster design for AI workloads
 - o Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of workshops
 - o Gather Al-specific requirements, constraints, assumptions, dependencies, and decisions
 - o Develop NCI/NKP/NAI architecture, including interoperability, security, and scalability for future growth
 - o Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and domain name service (DNS) environments
 - o Look at the client's current Data Governance
 - o Develop NCI cluster design
 - o Gather GPU requirements based on Use Cases
 - o Design virtual networking, including integration with the physical network
 - o Design virtual storage, including container layout, compression, and de-duplication
 - o Design NAI Number of instances and which LLM should be used based on the use cases

- Validate NCI/NAI sizing based on workload details provided by the customer Discuss the GPU selection and configuration options for inference
- Assess the network requirements and design virtual networking, including integration with the physical network
- Validate cluster size and platform selection based on workload details provided by the customer
- Design security including data-at-rest encryption, Secure Sockets Layer (SSL) certificate, password complexity, and syslog

Limitations

- For each quantity purchased, infrastructure design is limited to a single AI/ML inference use case.
- Management and other cluster designs require a separate Infrastructure Design Workshop for each additional cluster
- Excludes Nutanix Kubernetes Platform (NKP), Nutanix Database Service (NDB), and Nutanix Unified Storage (NUS) design
- The design service is limited to a single physical site

Note: For AI/ML workloads running on Bare Metal or Public Cloud, a custom Statement of work is required

Supported Hypervisors

Nutanix AHV

Prerequisites

None

Required Product Licenses

• None

Delivered Artifacts

- Configuration Workbook
- Design Document

Level of Effort

Typically up to 5 days

Delivery Type

Delivery Type	Delivery Activities
Virtual	Virtual workshop
	Virtual documentation

Delivery Type	Delivery Activities
In-person	In-person workshopVirtual documentation

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Enterprise AI (NAI)
- Nutanix Kubernetes Platform (NKP)
- Nutanix Unified Storage (NUS)
- Nutanix Database Service (NDB)

Terms and Conditions

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