

NAI GPT Pro Bundle for Cisco

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At-a-Glance

Stage: Plan, Design, Deploy and Optimize

The Nutanix Enterprise AI (NAI) generative pretrained transformer (GPT) Bundle offers a streamlined, full-stack solution for orchestrating AI/ML workloads with Nutanix Enterprise AI GPT-in-a-Box. Purpose-built for AI/ML teams, this service simplifies the deployment and management of large language models (LLMs) in a secure, scalable environment.

NAI GPT-in-a-Box integrates the following core components:

- Nutanix Enterprise AI (NAI) – Optimized for AI/ML model orchestration and performance
- Nutanix Cloud Infrastructure (NCI) – Delivers a resilient, high-performance foundation
- Nutanix Unified Storage (NUS) – Supports high-throughput, scalable data storage
- Nutanix Kubernetes Platform (NKP) – Enables containerized deployment and lifecycle management of LLMs

Covering the key stages of the AI journey—Plan, Design, Deploy, and Optimize—the NAI GPT Bundle empowers teams to reduce complexity, accelerate time-to-value, and confidently build a future-ready AI infrastructure.

Service Scope

The Nutanix AI (NAI) GPT Pro Bundle delivers a comprehensive, end-to-end approach for deploying AI/ML workloads on Nutanix Cloud Infrastructure (NCI). Designed to guide organizations through every stage of implementation, this structured offering ensures optimized performance, scalability, and operational efficiency for NAI GPT environments.

Led by seasoned consultants with deep expertise in both AI/ML technologies and Nutanix platforms, the NAI Bundle follows a proven methodology:

- Discovery & Planning – Assess AI/ML use cases, technical requirements, and current infrastructure to define a clear implementation path.
- Design – Develop a tailored architecture optimized for customer-specific AI/ML workloads and business goals.
- Deployment – Implement the solution in alignment with Nutanix-recommended practices and validated design specifications.
- Knowledge Transfer – Empower customer AI/ML teams with the skills and documentation needed to manage and scale the environment confidently

For customers with the NAI GPT Pro Edition software license for their on-premises NCI environment.

This bundle includes the following activities:

AI/ML Discovery

- Gather and analyze customer AI/ML use case, requirements, and expectations

- Assess and summarize the current state of AI/ML
- Identify data management considerations, including the data source, data preparation for AI/ML use, data protection, and security
- Look at the client's current Data Governance
- Learn the importance of choosing the right LLM
- Identify GPU selection and configuration options
- Explore options for training the model, such as using virtual machines (VMs) or container services
- Review capacity planning and scalability considerations for the number of end users who will leverage the GPT-based application
- Develop a Risk Management Plan

AI/ML Design

- Gather and document solution requirements, constraints, assumptions, dependencies, and decisions in a series of design sessions
- Develop AI Workload design on NCI platform
 - Develop NCI/Nutanix Kubernetes Platform (NKP)/NAI interoperability, security, and scalability for future growth
 - Define integration with Active Directory (AD)/lightweight directory access protocol (LDAP) and domain name service (DNS) environments
 - Review the customer's current data governance
 - Validate existing NCI cluster design
 - Gather graphics processing unit (GPU) requirements based on use cases
 - Design NAI, including documenting the number of instances and identifying the LLM to use based on the use cases
- Validate NCI/NAI sizing based on AI use case 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

NUS Design

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the design session
- Deliver an overview of high-level architecture and concepts of either NUS Files and Objects
- Review the customer's current landscape, use cases, and operations, and identify how NUS data services fit into the existing environment
- Assess resources required for the on-premises NCI environment

- Evaluate and define the integration of other infrastructure services required for the deployment with a focus on NUS (AD, DNS, network time protocol (NTP), directory services, identity services, etc.)
- Define NUS File shares and share types based on the use case
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*
- Develop a Validation Plan that addresses the access and management of NUS Files
- Define Nutanix Objects store and bucket/s
- Plan security hardening and compliance as per the *Nutanix Security Operations Guide*

NKP Design

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the design session
- Review the containerized workload use case system resource requirements with customer application owners
- Assess NKP Control Plane, workers, and infrastructure nodes quantity and capacity requirements based on solution sizing
- Review GPU-targeted containerized workload use cases and assess NKP worker node pools, quantity, and capacity requirements based on solution sizing
- Develop NKP architecture, including cluster API (CAPI) provisioning method, interoperability, security, and scalability for future growth
- Identify integration required for the customer-supplied identity provider (IdP) used for cluster-based authentication
- Identify virtual networking for NKP nodes (east-west/north-south)
- Identify virtual storage for NKP nodes and containerized workload design
- Plan default container storage interface (CSI) integration-based solution for NKP
- Identify an NKP image registry solution as needed
- Plan SSL certificate strategy
- Identify an NKP compute base machine template, as needed
- Design an NKP backup strategy using the default provided NKP backup solution
- Develop a Validation Plan for NKP
- Integrate and finalize all design documents (NCI, NUS, NKP, NAI, networking, storage, security, etc.)
- Develop a comprehensive Validation Plan (leveraging plans from T3/T4 and adding overall system tests)
- Review and update the Risk Management Plan

Infrastructure Deployment for AI Workloads

- Review customer-provided design and configuration documentation
- Validate Cisco Intersight or UCS Server Platform pre-configuration

- Review and validate deployment prerequisites (questionnaires, binaries, virtual networks, IP addresses, existing environment, availability of other infrastructure services such as AD, DNS, NTP, etc.)
- Deploy and configure Cisco HCI UCS cluster, including recommended firmware (via LCM) and AOS using either Cisco Intersight Standalone Mode (ISM) or Cisco Intersight Managed Mode (IMM)
- Deploy and configure the hypervisor cluster on the deployed NCI cluster
 - Configure LCM for automatic updates (online, dark site bundle, or via integration into an existing dark site LCM webserver)
- Configure layer 2 virtual networking on hypervisor hosts
 - Configure hypervisor virtual switches
- Deploy and integrate Prism Central

Optional Activities for Infrastructure Deployment for AI Workloads

- Enable local key management service (KMS) for encryption
- Harden Nutanix Controller VM and AHV according to the *Nutanix Security Guide*
- Optional activities for vGPU
 - Deploy GPU license server
 - Configure a single test VM for vGPU

NUS Deployment

- Deploy NUS Files and Objects
- Deploy and configure the NUS data service per the customer-provided Design document
- Configure NUS File servers and shares
- Configure NUS Objects Store and buckets
- Assign IP addresses for NUS data services
- Configure security for NUS data services
- Configure certificates for NUS Objects
- Configure Internet content adaption protocol (ICAP)
- Configure bucket options (policies, versioning, lifecycle, WORM)
- Configure NUS Files to support workload-specific needs
- Verify NUS Files and Objects data service is accessible

Optional Activities for NUS Deployment

- Configure standard smart tiering
- Deploy and configure File Analytics
- Deploy and configure Data Lens

NKP Deployment Advanced Edition

- Set up/configure NKP deployment host for NKP cluster deployments

- Deploy a single NKP-supported CAPI-provisioned NKP cluster
- Configure an NKP Compute node machine set
- Set up NKP load balancer with fully qualified domain name (FQDN)
- Configure SSL certificates for NKP services
- Configure the default supported CSI based on the CAPI provisioning method used
- Install and configure GPU operator on NKP
- Configure NKP-based IdP authentication
- Deploy NKP platform applications
- Configure NKP licensing
- Configure NKP banner
- Seed a single NKP image registry, if required
- Review the NCI cluster configuration that runs a supported Kubernetes platform, including:
 - Verification of GPU support
 - Installation of GPU operator
 - NKP version and configuration
 - Set up/configuration of NUS files with CSI in NKP
 - Set up/configuration of NKP load balancer with FQDN and SSL certification
- Provide knowledge transfer (KT) session on the following topics:
 - NKP user interface (UI), including cluster creation, identity provider authentication, user token generation, and resource alerts
 - NKP disaster recovery (DR) backups, including example namespace backup and restore
 - NKP observability, including monitoring and logging

NAI Deployment

- Install NAI on the NKP cluster
- Add and update Nutanix helm repository
- Set up Hugging Face
- Import LLM
- Configure endpoint
- Demonstrate the LLM with a sample application

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, deployment is limited to 1 node. A maximum of 31 nodes on a single on-premises NCI cluster.

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

- Limited to Cisco HCI UCS environments

AI/ML Discovery

- Planning is limited to a single AI/ML use case

AI/ML Design

- Infrastructure design is limited to a single AI/ML inference use case in a single physical site
- Management and other cluster designs require a separate *Infrastructure Design* for each additional cluster

NUS Design

- NUS design includes a single NUS Files and a single Objects data service

Infrastructure Deployment

- Excludes Cisco Intersight (standalone and managed modes), Fabric Interconnect, Fabric Extender and UCS Manager configurations
- Excludes creation or updates to existing Design Document
- Excludes deployment of EUC, AI/ML, Kubernetes, or database workloads
- Excludes integration into an external KMS
- Excludes deployment of NCI Flow Network Security, or NCI Advanced Replication

NUS Deployment

- Excludes migration of existing data to NUS Files or NUS Objects

NKP Deployment

- Selected CAPI provisioner must support the hardware platform
- Excludes continuous integration (CI) design of containerized workloads

- Excludes configurations requiring customization or enhancements of the existing product's capabilities
- KT session is limited to NKP out-of-box functionality
- Cluster API provisioning method is limited to the Nutanix infrastructure
- Configuration of the NKP product is limited to the features available in the NKP Pro license
- Configure up to 2 storage classes for NUS Volumes
- Configure up to 2 volume snapshot storage classes for NUS Volumes
- Configure up to 1 NKP-supported IdP source for cluster authentication

Optional Activities for NKP Deployment

- Configure up to 2 storage classes for NUS Files

NAI Deployment

- Excludes training a new LLM

Supported Hypervisors

- Nutanix AHV

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

- Fabric Interconnect, Fabric Extenders, and other network infrastructure components must be deployed, configured, and functioning
- For Cisco Intersight integration, Cisco Intersight infrastructure services must be deployed, configured, and functioning
- Firewall rules to connect to Cisco Intersight and the internet must be implemented per https://www.intersight.com/help/saas/getting_started/system_requirements#port_requirements
- Hardware that meets all product requirements that meets all product requirements for NCI, NKP, NUS, and a supported GPU

Note: For information on the requirements for NCI Clusters, see Field Installation Overview in the *Field Installation Guide* on the Nutanix Support Portal.

For information on NUS Files Prerequisites, see Prerequisites in *Nutanix Files User's Guide* on the Nutanix Support Portal.

For information on NUS Objects Prerequisites, see Objects Prerequisites and Limitations in *Nutanix Objects User's Guide* on the Nutanix Support Portal.

For information on the requirements for deploying NKP, see Basic Installations by Infrastructure in the *Nutanix Kubernetes Platform Guide* on the Nutanix Support Portal

For information on the requirements for NAI, see Nutanix Enterprise AI Requirements in the *Nutanix Enterprise AI Guide on the Nutanix Support Portal*

Fully supported and functional on-premises Prism Central instance

For information on the requirements for configuring NCM Intelligent Operations, see Prism Central Installation or Upgrade in *Prism Central Infrastructure Guide* on the Nutanix Support Portal.

- Required NUS certificates must be generated and made available by the customer

Required Product Licenses

- NAI GPT Pro Only

Delivered Artifacts

Delivered Artifacts will be provided in English only. Delivery in additional languages must be mutually agreed upon in writing by both parties in advance and may be subject to additional fees.

Stage	Artifacts	Description
Planning	Optimized Customer Strategy	Captures the recommended strategic approach developed during the planning session, aligning the customer's business objectives, technical priorities, and operational considerations into a clear, optimized path forward. The strategy provides guidance on sequencing, focus areas, and trade-offs to help customers maximize value, reduce risk, and support long-term success.
	High-level Summary Presentation	Translates planning session discussions into a clear, executive-ready summary that helps customers understand the planned approach, operational impacts, key decisions, and recommended next steps.
Design	Configuration Workbook	Captures all required configuration settings and decisions gathered during the design session to support accurate and consistent solution deployment.
	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.
Deployments	Configuration Workbook	Captures all required configuration settings and decisions gathered during the design session to support accurate and consistent solution deployment.
	As-built Guide	Captures the final, deployed configuration of the solution, detailing how the environment was actually built and configured in comparison to the customer-provided design.

Level of Effort

Typically up to 25 days (varies based upon the number of nodes purchased)

Delivery Type

Delivery Type	Delivery Activities
Virtual	<ul style="list-style-type: none"> • Virtual design session • Virtual documentation • Virtual deployment • Virtual project management <p>Note: Any in-person project management activities provided solely at Nutanix's discretion</p>
In-person	<ul style="list-style-type: none"> • In-person design session • Virtual documentation • In-person NCI infrastructure deployment • Virtual NUS, NKP, and NAI deployment • Virtual project management <p>Note: Any in-person project management activities provided solely at Nutanix's discretion</p>

Related Products

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

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

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