

AI/ML Deployment

Product Code: CNS-INF-A-SVC-DEP-GPT

At-a-Glance

Phase: Deploy

The Nutanix Artificial Intelligence / Machine Learning (AI/ML) Deployment service accelerates the deployment of a Nutanix-provided bootstrap AI/ML inference solution based on a Generative Pre-trained Transformer (GPT) workload on Nutanix Cloud Infrastructure (NCI). The deployed solution will validate that the NCI cluster can be used for virtual machine (VM)- or container-based inference. It also provides an API endpoint for the customer to build out the AI/ML application. This offer is ideal for the Deploy stage of the Nutanix GPT-in-a-box Solution journey.

Service Scope

Highly skilled consultants deploy the Nutanix-provided bootstrap solution by enabling NCM Self-Service in Prism Central, deploying a VM-based blueprint from the NCM Self-Service Marketplace, and configuring it. After the deployment of the solution, the consultant will demonstrate the model validation with sample data.

This service includes the following activities:

- Review the NCI cluster configuration that runs the AI workload
- Deploy Nutanix-provided bootstrap application that will provide a REST API endpoint for the application integration
 - Configure NCM Self-Service
 - Enable NCM Self-Service in Prism Central
 - Deploy one Ubuntu blueprint from the NCM Self-Service Marketplace as the AI compute instance, which includes the following:
 - Configure the compute instance with GPU passthrough
 - Install NVIDIA drivers to use the GPU
 - Configure the compute instance with shared storage (NUS Files or Objects) to store a large language model (LLM)
 - Install the LLM prerequisites, including the Nutanix LLM package and Python libraries
 - Download model files from the LLM provider and generate the model archive
 - Deploy PyTorch serving framework to run the LLM
- Demonstrate the bootstrap application with sample data

Limitations

- Excludes training a new LLM
- Excludes creation or updates to existing design documentation

- Excludes NCI cluster, NUS, and Prism Central deployment.

Note: *NCI Cluster Deployment or Expansion Pro Edition* is recommended

- For each quantity purchased, deployment is limited to 1 on-premises NCI cluster
- NCM Self-Service configuration is limited to 1 blueprint deployment from the NCM Self-Service Marketplace

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI cluster that meets all product requirements for GPT-in-a-Box, NUS, Prism Central, NCM Self-Service, 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.

Note: For information on the requirements for deploying NCM Self-Service, see *Calm Prerequisites and Deployment in Calm Administration and Operations Guide* on the Nutanix Support Portal.

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

- Completed Pre-Install Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI) Ultimate Edition
- Nutanix Unified Storage (NUS) Pro Edition

Deliverables

- Project Kickoff
- Project Schedule
- Project Status Report(s)
- Deployment of bootstrap solution
- Usable API endpoint
- Project Closeout

Duration

Typically up to 2 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- Nutanix Cloud Manager (NCM)

Terms and Conditions

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