FastTrack for Nutanix Kubernetes Engine

Product Code: CNS-CAS-FST-KARBON

At-a-Glance

Stage: Deploy

The FastTrack for Nutanix Kubernetes Engine (NKE) accelerates the deployment of NKE to Nutanix Cloud Infrastructure (NCI). NKE empowers IT Teams to deliver and manage an end-to-end, production-ready Kubernetes environment with push-button simplicity while preserving a native user experience. This offer is ideal for the Deploy stage of the hybrid multicloud journey.

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin with an enablement and discovery session. After the enablement session, the consultant installs and configures and demonstrates NKE. After the deployment, the consultant creates a customized As-built document and updated Configuration workbook to document the final configuration of NKE.

The services Includes the following activities:

- Conduct an enablement session introducing Nutanix Kubernetes Engine

- Architectural overview and review of NKE components

- Review features and functions of NKE, including deployment topologies, scaling out nodes, one-click upgrades, and built-in addons

- Deploy and configure NKE

    o Deploy sample stateful application leveraging NUS Volumes as persistent volume storage provider

    o Demonstrate Nutanix Container Storage Interface (CSI) capabilities such as provisioning, snapshots, and volumes management

    o Demonstrate how to scale worker nodes

    o Demonstrate NKE one-click upgrade

    o Demonstrate how to perform basic troubleshooting and monitoring using Kibana and Prometheus add-ons

Optional Activities

- Demonstrate north / south communications through Ingress Controller and Kubernetes Load Balancer service

- Implement basic network policies through Calico

- Implement Nutanix CSI for NUS Files

- Implement unstructured data use cases using NUS Objects

Limitations

- For each quantity purchased, deployment is limited to 1 on-premises NCI or NC2 Cluster in a single physical site

- Enablement session limited to a maximum of ten participants

- Excludes integration with external systems

- All 3rd-party integrations must be CNCF certified (https://landscape.cncf.io) and considered official (i.e., stable helm chart).

Supported Hypervisors

- Nutanix AHV

Prerequisites

- Fully supported and functional on-premises NCI or NC2 cluster that meets all product requirements

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

- Fully supported and functional Prism Central instance

  Note: 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.

- Active Directory service accounts available for use

- Fundamental understanding of Cloud Native, Docker, and Kubernetes

- Necessary network infrastructure preparation (all service/pod CIDR ranges and IPAM-enabled virtual network)

- Internet connectivity through proxy without authentication or direct connection

- Completed Pre-deployment Questionnaire

Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)

- Nutanix Unified Storage (NUS) Pro Edition

- Nutanix Kubernetes Engine

- Hypervisor licenses for NCI

Deliverables

- Project Kickoff
- Project Status Report(s)
- Deployment
- As-built Guide
- Project Closeout

Duration

Typically 3 days

Related Products

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Cloud Clusters (NC2)
- Nutanix Unified Storage (NUS)

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