

Nutanix Kubernetes Platform Deployment

Product Code: CNS-CLDN-A-SVC-DEP

At-a-Glance

Stage: Deploy

The Nutanix Kubernetes Platform (NKP) Deployment service accelerates the deployment of NKP on a supported hardware platform for a supported on-premises or cloud infrastructure provider, including Nutanix Cloud Infrastructure (NCI) or Nutanix Cloud Clusters (NC2) clusters. This offer is ideal for the Deploy stage of the hybrid multicloud journey.

Related Services

- Nutanix Kubernetes Design Workshop
- Infrastructure Deployment
- NC2 Deployment
- NUS Deployment

Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin by deploying NKP according to Nutanix recommended practices and the customer-provided Design document. After the deployment, the consultant creates a customized As-built document and updated Configuration Workbook to document the final configuration of the cluster(s)

Essential Edition

For customers who want to deploy NKP on an on-premises NCI or NC2 cluster.

The Essential Edition includes the following activities:

- Review customer-provided Design and Configuration documentation
- Configure NCI for NKP, as needed
- Configure Nutanix Unified Storage (NUS) Files or Objects data services for NKP, as needed
- Setup/configure NKP deployment host for NKP cluster deployments
- Configure a single NKP image registry, as needed
- Configure virtual networking for NKP nodes
- Configure virtual storage for NKP nodes and containerized workloads
- Deploy a single NKP-supported Cluster API (CAPI) provisioned NKP cluster
- Configure NKP banner and licensing
- Deploy and configure a default supported container storage interface (CSI) based on the CAPI provisioning method used
- Configure NKP-based identity provider (IdP) authentication

Advanced Edition

The Advanced Edition is for customers who want to deploy NKP on a supported cloud or on-premises infrastructure provider, including NKP Platform Applications.

The Advanced Edition includes the following activities:

- Everything in the Essential Edition
- Configure an NKP Compute node machine set
- Deploy NKP Platform Applications

Enterprise Edition

The Enterprise Edition is for customers who want to deploy NKP on a supported cloud or on-premises infrastructure provider. It includes NKP Platform Applications and multicluster management capabilities.

The Enterprise Edition includes the following activities:

- Everything in the Advanced Edition
- Deploy a single additional NKP cluster as an attached workload cluster to the initially deployed NKP management cluster) using the same CAPI provisioning method as before
- Configure NKP Workspace and Project
- Configure NKP user interface (UI)-based role-based access control (RBAC)

Limitations

- Selected CAPI provisioner must support the hardware platform

Essential Edition

- For each quantity purchased, deployment is limited to a single on-premises NCI Cluster or NC2 Cluster in a single physical site
- Cluster API provisioning method limited to the Nutanix infrastructure
- Configure up to 2 storage classes for NUS Volumes
- Configure up to 2 storage classes for NUS Files (optional)
- Configure up to 2 volume snapshot storage classes for NUS Volumes
- Configure up to 1 NKP-supported IdP source for cluster authentication

Advanced Edition

- For each quantity purchased, deployment is limited to a single provider type in a single physical site or cloud region
- Configure up to 1 default storage class based on the CAPI provider method used

Note: If CAPI is on Nutanix infrastructure, the limitations listed above for the Essential edition apply

- Configure up to 1 NKP compute node machine set

Enterprise Edition

- For each quantity purchased, deployment is limited to a single provider type in a single physical site or cloud region

- Configure up to 1 default-provided storage class based on the CAPI provider method used

Note: If CAPI is on Nutanix infrastructure, the limitations listed above for the Essential edition apply

- Configure up to 1 NKP Workspace
- Configure up to 2 NKP Projects
- Configure up to 3 NKP out-of-the-box RBAC personas

Supported Hypervisors

- Nutanix AHV

Supported On-premises Providers

- Pre-provisioned
- Nutanix Cloud Infrastructure (NCI)
- VMware Cloud Director
- VMware vSphere

Supported Public Cloud Providers

Essential and Advanced Editions

- Nutanix Cloud Customers (NC2)
- Amazon Web Services (AWS)
- Microsoft Azure
- Amazon Elastic Kubernetes Service (EKS)
- Microsoft Azure Kubernetes Services (AKS)
- Google Kubernetes Engine (GKE)

Prerequisites

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

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 on-premises 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.

- Customer-provided Design document
- Completed Pre-Install Questionnaire

Required Product Licenses

Essential Edition

- Nutanix Kubernetes Platform Starter or greater

Advanced Edition

- Nutanix Kubernetes Platform Pro or greater

Enterprise Edition

- Nutanix Kubernetes Platform Ultimate

Deliverables

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

Duration

Essential	Advanced	Enterprise
Typically 5 days	Typically 8 Days	Typically 12 days per provider tyer per site

Related Products

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

Terms and Conditions

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