

NKP Deployment

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

At-a-Glance

Stage: Deploy

Accelerate your Nutanix Kubernetes Platform (NKP) rollout with expert deployment on supported hardware and infrastructure—on-premises or in the cloud. This service supports environments including Nutanix Cloud Infrastructure (NCI) and Nutanix Cloud Clusters (NC2), making it ideal for the Deploy phase of your cloud-native journey.

Related Services

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

Service Scope

Our experienced consultants, equipped with deep domain expertise, begin by deploying the Nutanix Kubernetes Platform (NKP) in alignment with Nutanix recommended practices and the customer-provided Design Document. Following deployment, they deliver a tailored As-built Guide and Configuration Workbook, thoroughly documenting the final cluster configuration to support ongoing operations and scalability.

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
- Set up/configure NKP deployment host for NKP cluster deployments
- Seed a single NKP image registry, if required
- Deploy a single NKP-supported Cluster API (CAPI) provisioned NKP cluster
- Configure the default supported container storage interface (CSI) based on the CAPI provisioning method used
- Configure NKP-based identity provider (IdP) authentication
- Provide Knowledge Transfer (KT) session on the NKP UI, to include cluster creation, identity provider authentication, user token generation, and resource alerts

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
- Configure NKP licensing
- Configure NKP banner
- Provide KT session on NKP Disaster Recovery (DR) backups, to include example namespace backup and restore
- Provide KT session on NKP observability (monitoring and logging)

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 multicloud management capabilities.

The Enterprise Edition includes the following activities:

- Everything in the Advanced Edition
- Deploy a single NKP workload cluster using the same CAPI provisioning method
- Configure an NKP Workspace and Projects
- Configure NKP user interface (UI)-based role-based access control (RBAC)
- Provide KT session on NKP provided Kubecost and Insights

Limitations

- 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 limited to NKP out-of-box functionality

Essential Edition

- For each quantity purchased, deployment is limited to a single on-premises NCI or NC2 Cluster in a single physical site or cloud region
- Cluster API provisioning method limited to the Nutanix infrastructure
- Configuration of the NKP product is limited to the features available in the NKP Starter 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 Activity Limitations for Essential Edition

- Configure up to 2 storage classes for NUS Files

Advanced Edition

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

Note: If CAPI is on Nutanix infrastructure, the limitations listed 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

Note: For more than 1 provider type, a custom statement of work (SOW) is required

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

Supported On-premises Providers

- Nutanix Cloud Infrastructure (NCI)

Advanced and Enterprise Edition

- Preprovisioned Bare Metal
- VMware vSphere

Supported Public Cloud Providers

- Nutanix Cloud Clusters (NC2)

Advanced and Enterprise Edition

- Amazon Web Services (AWS)
- Microsoft Azure
- Google Cloud Platform (GCP)

Enterprise Edition

- Amazon Elastic Kubernetes Service (EKS)
- Microsoft Azure Kubernetes Services (AKS)

Prerequisites

- Fully supported and functional on-premises NCI cluster or NC2 cluster that meets all product requirements for NKP
- Fully supported and functional NUS Files or Objects deployment that meets 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.

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

Note: For information on the requirements for deploying NKP, see Basic Installations by Infrastructure in the *Nutanix Kubernetes Platform 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 Infrastructure, Storage, Networking, and NKP Design Document
- Completed Pre-Install Questionnaire

Required Product Licenses

Essential Edition

- Nutanix Kubernetes Platform Starter

Advanced Edition

- Nutanix Kubernetes Platform Pro

Enterprise Edition

- Nutanix Kubernetes Platform Ultimate

Delivered Artifacts

- As-built Guide
- Configuration Workbook

Level of Effort

Essential	Advanced	Enterprise
Typically up to 3 days	Typically up to 5 days	Typically up to 7 days

Delivery Type

Delivery Type	Delivery Activities
Virtual	<ul style="list-style-type: none">Virtual deployment

Related Products

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

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