

# 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

## Duration

Essential	Advanced	Enterprise
Typically up to 3 days, delivered virtually	Typically up to 5 days, delivered virtually	Typically up to 7 days, delivered virtually

**Note:** In-person delivery may incur additional charges.

## Related Products

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

## Terms and Conditions

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