

NKP Bundle Basic Edition

Product Code: CNS-NKP-B-BAS-WD

At-a-Glance

Stage: Design and Deploy

The NKP Bundle Basic Edition provides a structured design and deployment approach for Nutanix Kubernetes Platform (NKP) environments, ensuring a secure foundation for containerized workloads. Designed specifically for small NKP environments, this service is ideal for organizations adopting NKP in limited-scale deployments and seeking a streamlined, best-practice-driven experience.

The bundle focuses on:

- Gathering and validating solution requirements for NKP clusters
- Designing NKP architecture for interoperability and security
- Deploying an NKP cluster with integrated identity and storage solutions
- Transferring knowledge to empower your teams for ongoing operations

This offering is only suitable for NKP environments with up to 64 vCPUs for NKP Pro or Ultimate software licenses and up to 128 cores for NKP Pro or Ultimate full-stack licenses.

Related Services

- Infrastructure Design
- Infrastructure Deployment

Service Scope

The NKP Bundle Basic Edition begins with a design workshop led by certified Nutanix consultants who bring deep technical expertise and real-world experience. This engagement delivers immediate value by:

- Reviewing containerized workload use cases and resource requirements
- Assessing NKP control plane, worker nodes, and infrastructure sizing
- Designing NKP architecture, including cluster API provisioning, networking, storage, and identity integration
- Planning for scalability, security, and operational readiness

Following design, consultants deploy an NKP cluster, including:

- Configuring NKP deployment host and image registry
- Deploying NKP cluster using CAPX (Nutanix Infrastructure) provisioning
- Integrating identity provider authentication and container storage interface (CSI)
- Configuring NKP licensing and platform applications

Knowledge transfer sessions ensure your teams can confidently manage NKP operations, including cluster creation, observability, and resource monitoring.

By the end of the engagement, your infrastructure team will:

- Gain a validated NKP architecture aligned with Nutanix-recommended practices

- Receive expert guidance for containerized workload integration
- Be equipped with operational knowledge for ongoing NKP management

This service includes the following activities:

NKP Design

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
 - Review containerized workload use case system resource requirements with customer application owners
 - Assess the quantity and capacity requirements for NKP Control Plane, Workers, and infrastructure nodes based on solution sizing
- Develop NKP architecture, interoperability, and security
- Identify integration required for the customer-supplied identity provider (IdP) used for cluster-based authentication
- Define virtual networking for NKP nodes, including east–west and north–south traffic patterns
 - Plan communications for NKP Control Plane and Workers
- Identify virtual storage for NKP nodes and containerized workload design
- Identify the storage container to be used with NKP
- Identify a container image registry solution
- Plan SSL certificate strategy
- Identify NKP node operating system (OS) image
- Review graphics processing unit (GPU)-targeted containerized workload use cases and assess NKP Worker node pools, quantity, and capacity requirements based on solution sizing
- Identify the platform applications to be enabled
- Develop a validation plan

NKP Deployment

- Set up and configure NKP deployment host for NKP cluster deployments
- Seed a single NKP image registry, if required
- Deploy a single NKP management cluster and a single NKP workload cluster via CAPX
- Configure the storage container to be used with NKP
- Configure NKP-based IdP authentication
- Configure NKP node OS image, if required
- Deploy NKP applications
- Apply NKP licensing
- Configure NKP banner
- Configure Harbor for container registry, as required

Knowledge Transfer

Provide a KT session on:

- the NKP user interface (UI), to include cluster creation, identity provider authentication, user token generation, and resource alerts
- NKP observability (monitoring and logging)

Project Management

Nutanix Project Management (PM) oversees Nutanix resources and aligns execution with your goals, scope, and timelines.

Core project management activities may include the following:

- Serve as a single point of contact for all project communication
- End-to-end Nutanix resource management
- Coordinate change window(s) and implementation schedules with customer
- Track and facilitate readiness and prerequisite completion
- Conduct project kickoff/tech readiness meeting(s)
- Integrate customer resources into the high-level project timeline
- Send status update(s)
- Manage timeline(s)
- Deliver created artifacts to the customer
- Facilitate project closeout activities

Limitations

- For each quantity purchased, design and deployment are limited to a single on-premises NCI or NC2 cluster in a single physical site
- Limited to NKP environments with:
 - Up to 64 vCPUs of NKP Pro or Ultimate software licenses
 - Up to 128 cores of NKP Pro or Ultimate full-stack licenses

Note: For NKP environments that exceed or are expected to scale beyond these limits, the Advanced or Enterprise Edition of the NKP Design Workshop and NKP Deployment is required.

- Excludes continuous integration (CI) design of containerized workloads
- Selected CAPI provisioner must support the hardware platform where NKP is deployed
- Excludes Nutanix data services for Kubernetes (NDK) design or deployment

NKP Design

- Excludes CAPI infrastructure provisioner design
- Excludes considerations that require customization or enhancement of the existing Nutanix products' capabilities
- Containerized workload system requirements review limited to up to 3 applications

- Excludes continuous delivery design of containerized workloads
- Excludes SSL certificate strategy planning
- Selected CAPI provisioner limited to the Nutanix infrastructure
- Excludes continuous delivery design of containerized workloads
- NKP Compute-base machine template design limited to a single template
- GPU workload-related design limited to a single node pool

NKP Deployment

- Excludes configurations requiring customization or enhancements of the existing product's capabilities
- Cluster API provisioning method limited to the Nutanix infrastructure
- Configuration of the NKP product is limited to the features available in the NKP Pro license
- Configure up to 1 default storage class for NUS Volumes
- Configure up to 1 volume snapshot storage class for NUS Volumes
- Configure up to 1 storage class for NUS Files
- Configure up to 1 NKP-supported IdP source for cluster authentication

Knowledge Transfer

- KT session limited to NKP out-of-box functionality

Project Management

- Excludes scheduling customer resources and activities
- Excludes detail project plan (schedule) development & management
- Excludes responsibility for creating, managing, or delivering change management communications

Supported On-premises Providers

- Nutanix Cloud Infrastructure (NCI)

Supported Public Cloud Providers

- Nutanix Cloud Clusters (NC2)

Prerequisites

NKP Design

- Targeted containerized workload use cases have been identified
- Customer-provided Infrastructure, Storage, and Networking Design Document

NKP Deployment

- 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 Volumes 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.

- Completed Pre-delivery Questionnaire

Required Product Licenses

- Nutanix Kubernetes Platform (NKP) Pro or Ultimate only

Note: NKP Starter license requires the NKP Design Workshop Essential Edition and NKP Deployment Essential Edition offers

Delivered Artifacts

| Documentation Option | Delivered Artifact | Description |
|------------------------|------------------------|---|
| Workshop Documentation | Configuration Workbook | Captures all necessary settings gathered during design workshops to support solution deployment. |
| | As-built Guide | Captures all the configuration settings to ensure that what is deployed matches the Configuration Workbook. |

Level of Effort

Typically up to 8 days

Delivery Type

| Bundle Edition | Language Support | Resource Location | Delivery Activities |
|----------------|------------------------------------|---------------------------|--|
| AIC Virtual | English (Local where available) | India-based Resource Only | <ul style="list-style-type: none"> Virtual workshop Virtual documentation Virtual deployment Virtual project management <p>Note: Any in-person project management activities to be provided solely at Nutanix's discretion.</p> |

| Bundle Edition | Language Support | Resource Location | Delivery Activities |
|----------------|------------------|--------------------|--|
| Virtual | Local | In-region Resource | <ul style="list-style-type: none">• Virtual workshop• Virtual documentation• Virtual deployment• Virtual project management Note: Any in-person project management activities will be provided solely at Nutanix's discretion. |
| In-person | Local | In-region Resource | <ul style="list-style-type: none">• In-person workshop• Virtual documentation• Virtual deployment• Virtual project management Note: Any in-person project management activities will be provided solely at Nutanix's discretion. |

Related Products

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

Terms and Conditions

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