

# Kubernetes Platform Deployment for Red Hat OpenShift

Product Code: CNS-INF-A-SVC-K8

## At-a-Glance

Stage: Deploy

The Kubernetes Platform Deployment service accelerates the deployment of a Kubernetes platform to Nutanix Cloud Infrastructure (NCI). Highly skilled consultants deploy the Kubernetes platform to on-premises NCI clusters that run on supported hardware platforms. This offer is ideal for the Deploy stage of the hybrid multicloud journey.

## Related Services

- Kubernetes Platform Design Workshop for Red Hat

## Service Scope

Highly skilled consultants with solid domain expertise and rich experience begin deploying a Kubernetes Platform to a supported hypervisor 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 Kubernetes platform.

## Red Hat OpenShift

For customers who want to deploy Red Hat OpenShift Container Platform (OCP) to a single on-premises NCI cluster according to customer-provided design and configuration documentation.

The service includes the following activities:

- Review customer-provided design and configuration documentation
- Configure Nutanix Prism Central for Red Hat OpenShift deployments
- Configure virtual networking for Red Hat OpenShift nodes
- Configure virtual storage for Red Hat OpenShift nodes and containerized workloads
- Deploy Red Hat OpenShift Installer Provisioned Infrastructure (IPI) cluster
- Deploy and configure Nutanix Container Storage Interface (CSI)
  - Deploy and configure storage classes for Nutanix
  - Deploy and configure volume snapshot storage classes for Nutanix Unified Storage (NUS) Volumes
  - Deploy and configure storage classes for NUS Files (optional)
- Configure OpenShift image registry on one of the following:
  - NUS Objects
  - NUS Files
- Configure OpenShift Compute node machine sets

## Limitations

### Red Hat OpenShift Edition

- For each quantity purchased, deployment is limited to 1 on-premises NCI Cluster in a single physical site
- 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 2 OpenShift compute node machine sets

### Supported Hypervisors

- Nutanix AHV

## Prerequisites

- Fully supported and functional on-premises NCI 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 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-deployment Questionnaire

### Required Product Licenses

- Nutanix Cloud Infrastructure (NCI)
- Nutanix Unified Storage (NUS)
- Container platform licenses

## Delivered Artifacts

- As-built Guide

## Duration

Typically 3 days

## Related Products

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

### Terms and Conditions

This document contains the entire scope of the service offer. Anything not explicitly included above is out of scope. This service offer is subject to the Nutanix Services General Terms and Conditions that can be viewed at <https://www.nutanix.com/support-services/consulting-services/terms-and-conditions>

©2025 Nutanix, Inc. All rights reserved. Nutanix, the Nutanix logo, and all Nutanix product and service names mentioned herein are registered trademarks or trademarks of Nutanix, Inc. in the United States and other countries. Nutanix, Inc. is not affiliated with VMware by Broadcom or Broadcom. VMware and the various VMware product names recited herein are registered or unregistered trademarks of Broadcom in the United States and/or other countries. All other brand names mentioned herein are for identification purposes only and may be the trademarks of their respective holder(s).