Kubernetes Platform Design Workshop

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

At-a-Glance

Stage: Design

The Kubernetes Platform Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for Kubernetes Platform on Nutanix Cloud Infrastructure (NCI). It covers various aspects such as performance, scalability, flexibility, integration, and operational needs. This workshop is beneficial during the Design stage of the hybrid multicloud journey.

Service Scope

The Design workshop is delivered by highly skilled consultants with strong domain expertise and rich experience to ensure that the solution requirements and required outcomes are identified. Design workshops require collaboration with key customer stakeholders from architecture, virtualization, security, and develop operations. After the design workshop, the consultant develops a Nutanix Design Document for the Kubernetes platform and a Configuration workbook that addresses conceptual, logical, and physical Kubernetes design elements.

Red Hat OpenShift

For customers who want to deploy Red Hat OpenShift Container Platform (OCP) to on-premises Nutanix Cloud Infrastructure (NCI).

The service includes the following activities:

- Gather and document solution requirements, constraints, assumptions, dependencies, risks, mitigations, and decisions in the workshop
    - Review targeted containerized workload use cases
    - Assess Red Hat OpenShift Control Plane, Workers, and infrastructure nodes quantity and capacity requirements based on solution sizing
- Develop NCI architecture, including interoperability, security, and scalability for future growth
- Define integration with AD/LDAP and IPAM/DNS environments
- Develop NCI cluster design
- Design virtual networking for Red Hat OpenShift nodes
    - Plan Container Network Interface (CNI) solution for OpenShift
    - Plan north-south communications for default OpenShift router
- Develop virtual storage for Red Hat OpenShift nodes and containerized workload design
- Plan Nutanix Container Storage Interface (CSI) integration-based solution for OpenShift
- Design Red Hat Image Registry solution integration
- Plan secure sockets layer (SSL) certificates strategy
- Develop validation plan

Limitations

- For each quantity purchased, deployment is limited to 1 on-premises Kubernetes Platform Design in a single physical site
- The design can be deployed multiple times in various environments, such as development, test, production
- Continuous Integration/Continuous Delivery (CI/CD) pipeline or containerized workload deployment is excluded
- NCI Cluster design is excluded

Prerequisites

- Containerized workload use cases have been identified
- Workshop requires key stakeholders from virtualization, network and security, DevOps, and engineering

Required Product Licenses

- None

Deliverables

- Project Schedule
- Project Status Report(s)
- Workshops
- Workshop Slides and Supporting Content
- Configuration Workbook
- Design Document (Standard or Enhanced Documentation only)
- Project Closeout

> **Note:** This offer is available with several documentation options, defined here https://www.nutanix.com/support-services/consulting-services/documentation-tiers

Duration

Typically 5 days

Related Products

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

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