

Cloud & IT Automation

FastTrack for Nutanix Kubernetes Engine

BENEFITS

- Accelerate your adoption of the Nutanix Kubernetes Engine by leveraging experienced consultants
- Understand how the Nutanix Kubernetes Engine helps you to optimize the use of Kubernetes in your environment
- Identify requirements and considerations to successfully deploy your applications as containers

OVERVIEW

Nutanix Kubernetes Engine, formerly Karbon, is a turnkey offering that provides simplified provisioning and operations of Kubernetes clusters. Kubernetes is an open source container orchestration system for deploying and managing container-based applications.

The FastTrack for Nutanix Kubernetes Engine service provides you with a deployment of Nutanix Kubernetes Engine on an existing Nutanix Enterprise Cloud platform running the AHV hypervisor and Prism Central.

SERVICE SCOPE

This service includes a maximum of 10 participants and addresses:

- Deliver a product overview session introducing Nutanix Kubernetes Engine
- Lead an architectural overview and review of Nutanix AOS, AHV, Prism, Nutanix Kubernetes Engine and Kubernetes components
- Review features and functions of Nutanix Kubernetes Engine, including deployment topologies, scaling out nodes, one-click upgrades and built-in add-ons
- Deploy Nutanix Kubernetes Engine cluster
- Deploy sample stateful application leveraging Nutanix Volumes as persistent volume storage provider
- Demonstrate Nutanix Container Storage Interface (CSI) capabilities such as provisioning, snapshots and volumes management
- Demonstrate how to scale worker nodes
- Demonstrate Nutanix Kubernetes Engine one-click upgrade
- Demonstrate how to perform basic troubleshooting and monitoring using Kibana and Prometheus add-ons
- Knowledge transfer including review/coaching session on the deployment

Note: Integration with external systems is beyond the scope of this FastTrack deployment.

PREREQUISITES

- Existing functional and properly sized Nutanix cluster running latest versions of AOS, AHV and Prism Central
- Fundamental understanding of Cloud Native, Docker and Kubernetes
- Necessary network infrastructure preparation (all service/pod CIDR ranges and IPAM-enabled virtual network)
- Appropriate Nutanix product license
- Internet connectivity, through proxy without authentication or direct connection
- Required accounts (user/service) and access permissions (i.e., LDAP)
- Knowledge of command line and file editors
- Previously deployed Files instance required if deploying Nutanix CSI for Files
- Previously deployed Objects instance required if deploying unstructured data use cases

- Showcase north / south communications through Ingress Controller and Kubernetes LoadBalancer service (optional)
- Implement basic network policies through Calico (optional)
- Implement Nutanix CSI for Files (optional, see prerequisites)
- Implement unstructured data use cases using Nutanix Objects (optional, see prerequisites)

Note: All 3rd-party integrations must be CNCF certified (<https://landscape.cncf.io>) and considered official (i.e., stable helm chart).

DELIVERABLES

- Knowledge transfer workshop
- Requirements gathering and design review workshop
- Deployment of Nutanix Kubernetes Engine as per Nutanix best practices
- Operational overview and handover
- Project documentation

TASK

| | Duration |
|---|------------------|
| FastTrack for Nutanix Kubernetes Engine | typically 3 days |

TERMS AND CONDITIONS

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T. 855.NUTANIX (855.688.2649) | F. 408.916.4039
info@nutanix.com | www.nutanix.com | [@nutanix](https://twitter.com/nutanix)

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