

Kyverno Certified Associate (KCA)

A Cloud Native Computing Foundation (CNCF) Publication
cncf.io



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CLOUD NATIVE
COMPUTING FOUNDATION

This document provides the curriculum outline of the Knowledge, Skills and Abilities that a Kyverno Certified Associate (KCA) can be expected to demonstrate.

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18% - Fundamentals of Kyverno

- Kyverno Policies & Rules
- YAML Manifests
- Admission Controllers
- OCI Images

18% - Installation, Configuration, and Upgrades

- Helm-based Installation and Configuration
- Kyverno Custom Resource Definitions (CRDs)
- Controller Configuration with Flags
- Configuring Kyverno RBAC, roles, and permissions
- High Availability Installations
- Upgrading Kyverno

12% - Kyverno CLI

- apply
- test
- jp
- Installing Kyverno CLI

10% - Applying Policies

- Applying Policy in Cluster
- Resource Selection
- Common Policy Settings for Kyverno Rules

32% - Writing Policies

- Validation Rules
- Preconditions
- Background Scans
- Mutation Rules
- Generation Rules
- VerifyImage Rules
- Variables & API Calls in Policies
- JSON Patches
- Autogen Rules
- Cleanup Policies
- Common Expression Language (CEL)

10% - Policy Management

- Policy Reports
- PolicyExceptions
- Kyverno Metrics



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Cloud native computing uses an open source software stack to deploy applications as microservices, packaging each part into its own container, and dynamically orchestrating those containers to optimize resource utilization. The Cloud Native Computing Foundation (CNCF) hosts critical components of those software stacks including Kubernetes, Fluentd, Linkerd, Prometheus, OpenTracing and gRPC; brings together the industry's top developers, end users, and vendors; and serves as a neutral home for collaboration. CNCF is part of The Linux Foundation, a nonprofit organization. For more information about CNCF, please visit: <https://cncf.io/>.