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Certified Kubernetes Administrator (CKA) 2020: Upcoming Program Changes

CKA 2020: Available September 01, 2020 00:00 UTC

Duration of Exam: 2 hours

Software Version: Kubernetes v1.19

A certified K8s administrator can work proficiently to design, install, configure, and manage a Kubernetes production-grade cluster. They will have an understanding of key concepts such as Kubernetes networking, storage, security, maintenance, logging and monitoring, application lifecycle, troubleshooting, API object primitives and the ability to establish basic use-cases for end users.

CKA 2020 Domain & Competencies are outlined below

Cluster Architecture, Installation & Configuration – 25%

- Manage role based access control (RBAC)

Services & Networking – 20%

- Understand host networking configuration on the

Troubleshooting – 30%

- Evaluate cluster and node logging
- Understand how to monitor applications

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Kubernetes cluster
using Kubeadm

- Implement etcd backup
and restore

**Workloads & Scheduling –
15%**

- Understand
deployments and how
to perform rolling
update and rollbacks
- Use ConfigMaps and
Secrets to configure
applications
- Know how to scale
applications
- Understand the
primitives used to
create robust, self-
healing, application
deployments
- Understand how
resource limits can
affect Pod scheduling
- Awareness of manifest
management and

Ingress resources

- Know how to configure
and use CoreDNS
- Choose an appropriate
container network
interface plugin

Storage – 10%

- Understand storage
classes, persistent
volumes
- Understand volume
mode, access modes
and reclaim policies for
volumes
- Understand persistent
volume claims primitive
- Know how to configure
applications with
persistent storage

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