

25% - CLUSTER ARCHITECTURE, INSTALLATION, AND CONFIGURATION

Certified Kubernetes Administrator Exam (CKA)

✗ BEFORE NOV 25

Manage role based access control (RBAC)

Use Kubeadm to install a basic cluster

Manage a highly-available Kubernetes cluster

Provision underlying infrastructure to deploy a Kubernetes cluster

Perform a version upgrade on a Kubernetes cluster using Kubeadm

Implement etcd backup and restore

✓ ON OR AFTER FEB 10

Manage role based access control (RBAC)

Implement and configure a highly-available control plane

Prepare underlying infrastructure for installing a Kubernetes cluster

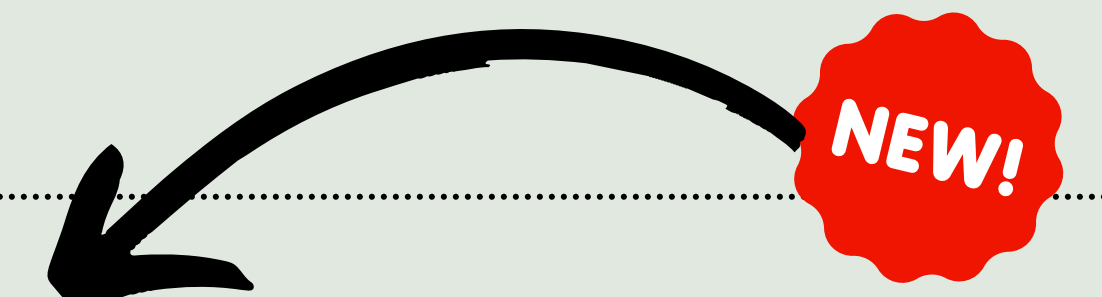
Manage the lifecycle of Kubernetes clusters

Create and manage Kubernetes clusters using kubeadm

Use Helm and Kustomize to install cluster components

Understand extension interfaces (CNI, CSI, CRI, etc.)

Understand CRDs, install and configure operators



15% - WORKLOADS AND SCHEDULING

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✗ BEFORE NOV 25

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 common templating tools

✓ ON OR AFTER FEB 10

Understand application deployments and how to perform rolling update and rollbacks

Use ConfigMaps and Secrets to configure applications

Configure workload autoscaling

Understand the primitives used to create robust, self-healing, application deployments

Configure Pod admission and scheduling (limits, node affinity, etc.)

20% - SERVICES AND NETWORKING

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✗ BEFORE NOV 25

Understand host networking configuration on the cluster nodes

Understand connectivity between Pods

Understand ClusterIP, NodePort, LoadBalancer service types and endpoints

Know how to use Ingress controllers and Ingress resources

Know how to configure and use CoreDNS

Choose an appropriate container network interface plugin

✓ ON OR AFTER FEB 10

Understand connectivity between Pods

Define and enforce Network Policies

Use ClusterIP, NodePort, LoadBalancer service types and endpoints

Use the Gateway API to manage Ingress traffic

Know how to use Ingress controllers and Ingress resources

Understand and use CoreDNS

NEW!

10% - STORAGE

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✗ BEFORE FEB 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

✓ ON OR AFTER FEB 10

Implement storage classes and dynamic volume provisioning

Configure volume types, access modes and reclaim policies

Manage persistent volumes and persistent volume claims

30% - TROUBLESHOOTING

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✗ BEFORE NOV 25

Evaluate cluster and node logging

Understand how to monitor applications

Manage container stdout & stderr logs

Troubleshoot application failure

Troubleshoot cluster component failure

Troubleshoot networking

✓ ON OR AFTER FEB 10

Implement storage classes and dynamic volume provisioning

Configure volume types, access modes and reclaim policies

Manage persistent volumes and persistent volume claims