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

✓ AFTER NOV 25

- 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 (NEW!)
- Understand extension interfaces (CNI, CSI, CRI, etc.)
- Understand CRDs, install and configure operators (NEW!)

15% - WORKLOADS AND SCHEDULING

Certified Kubernetes Administrator Exam (CKA)

✕ 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

✓ AFTER NOV 25

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

Certified Kubernetes Administrator Exam (CKA)

✕ 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

✓ AFTER NOV 25

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 NEW!

Know how to use Ingress controllers and Ingress resources

Understand and use CoreDNS

10% - STORAGE

Certified Kubernetes Administrator Exam (CKA)

✕ BEFORE NOV 25

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

✓ AFTER NOV 25

Implement storage classes and dynamic volume provisioning

Configure volume types, access modes and reclaim policies

Manage persistent volumes and persistent volume claims

30% - TROUBLESHOOTING

Certified Kubernetes Administrator Exam (CKA)

✕ 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

✓ AFTER NOV 25

Implement storage classes and dynamic volume provisioning

Configure volume types, access modes and reclaim policies

Manage persistent volumes and persistent volume claims