Area	Topic	Documentation	Practice Tasks	Time		
5% - Scheduling	торіс	https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/	Add label to a node	2 minutes		
5% - Scheduling						
		https://kubernetes.io/docs/concepts/configuration/assign-pod-node/	Remove label from a node	1 minutes		
		https://kubernetes.io/docs/concepts/configuration/assign-pod-node/	Add label to a pod			
			Remove label to a pod			
			Add label to a deployment			
			Remove label from a deployment			
			Use nodeSelector to schedule a pod on a particular node			
			Use nodeName to shcedule a pod on a particular node			
			Use taints to prevent pods from being scheduled on a particular node			
			Use tolerations to ignore taints			
			Use nodeAffinity to schedule a pod on a particular node			
			Use podAntiAffinity to make sure that pods in the same deployments are not scheduled on the same node			
	Use label selectors to schedule Pods.		Use podAffinity to make sure that pods in the same deployments are not screduled on the same node			
	Ose label selectors to scriedule i ous.	https://kubernetes.io/docs/concepts/workloads/controllers/daemonset/	Create a DaemonSet			
		nttps://kdbernetes.io/docs/concepts/workloads/controllers/daemonset/				
			Edit a DaemonSet			
	Understand the role of DaemonSets.		Delete a DaemonSet			
		https://kubernetes.io/docs/concepts/configuration/manage-compute-resources-container/	Use requests and limits to make put resource restrictions on a Pod			
	Understand how resource limits can affect Pod	https://kubernetes.io/docs/tasks/administer-cluster/manage-resources/memory-default-namespace/	Use LimitRange to set default requests and limits in a Namespace			
	scheduling.	https://kubernetes.io/docs/tasks/administer-cluster/manage-resources/cpu-default-namespace/	Use ResourceQuotas to limit total amount of CPU, Memory and Storage consumed by resources in a Namespace			
	Understand how to run multiple schedulers and					
	how to configure Pods to use them.	https://kubernetes.io/docs/tasks/administer-cluster/configure-multiple-schedulers/	Deploy additional scheduler			
	Manually schedule a pod without a scheduler.	https://kubernetes.io/docs/tasks/administer-cluster/static-pod/	Create a static Pod			
	Know how to configure the Kubernetes scheduler.	https://kubernetes.io/docs/tasks/administer-cluster/configure-multiple-schedulers/	Deploy additional scheduler			
8% - Application						
Lifecycle						
Management	Understand Deployments and how to perform	https://kubernetes.io/docs/concepts/workloads/controllers/deployment/	Perform rolling update for a Deployment			
	rolling updates and rollbacks.	https://kubernetes.io/docs/concepts/workloads/controllers/deployment/#updating-a-deployment	Perform rollback for a Deployment			
		https://kubernetes.io/docs/concepts/cluster-administration/manage-deployment/	Create a secret			
		https://kubernetes.io/docs/tasks/configure-pod-container/configure-pod-configmap/	Access a secret from a Pod			
		https://kubernetes.io/docs/concepts/configuration/secret/	Create a configmap			
	Know various ways to configure applications.	https://kubernetes.io/docs/concepts/services-networking/service/	Access a configmap from a Pod			
	Know how to scale applications.	https://kubernetes.io/docs/concepts/workloads/controllers/deployment/#scaling-a-deployment	Scale a deployment			
		https://kubernetes.io/docs/tasks/configure-pod-container/configure-liveness-readiness-probes/	Create a liveness probe			
	self-healing application.		Create a readiness probe			
11% - Cluster		https://kubernetes.io/docs/reference/setup-tools/kubeadm/kubeadm-upgrade/	Upgrade kubernetes version			
	Facilitate operating system upgrades.	https://kubernetes.io/docs/tasks/administer-cluster/cluster-management/#maintenance-on-a-node	Cordon a node, drain a node, uncordon a node			
	racilitate operating system upgrades.	https://kubernetes.io/docs/tasks/administer-cluster/cluster-management/#maintenance-on-a-node	Create a backup of etcd			
		nttps://kubernetes.io/docs/tasks/administer-cluster/comigure-upgrade-etcu/	Restore etcd			
	Implement backup and restore methodologies.					
12% - Security	Know how to configure authentication and	https://kubernetes.io/docs/reference/command-line-tools-reference/kubelet-authentication-authorization/	Create a user and a context			
	authorization.	https://kubernetes.io/docs/reference/access-authn-authz/rbac/	Assign permissions for a user to use certain namespace			
	Know to configure network policies.	https://kubernetes.io/docs/concepts/services-networking/network-policies/	Create a deny all network policy			
			Create a deny all network policy that is assigned to a particular pod			
			Create a whitelist rule based on pod label			
			Create a whitelist rule based on ip range			
	Create and manage TLS certificates for cluster		·			
	components.	https://kubernetes.io/docs/tasks/tls/managing-tls-in-a-cluster/	Connect a node to a cluster using TLS bootstrapping			
	Understand persistent volumes and know how to					
7% - Storage	create them.	https://kubernetes.io/docs/concepts/storage/persistent-volumes/	Create a persistentVolume			
	Understand access modes for volumes.	https://kubernetes.io/docs/concepts/storage/persistent-volumes/#access-modes	Create a storageClass			
	Understand persistent volume claims primitive.	https://kubernetes.io/docs/concepts/storage/persistent-volumes/#access-modes	Create a persistentVolumeClaim			
		https://kubernetes.io/docs/concepts/storage/volumes/#types-of-volumes	Assign volume to Pods			
	Understand Kubernetes storage objects.	https://kubernetes.io/docs/concepts/storage/storage-classes/	Resize persistentVolumeClaim			
	Know how to configure applications with persistent		Create a statefulSet			
	storage.	https://kubernetes.io/docs/concepts/workloads/controllers/statefulset/				
	Understand service networking.	https://kubernetes.io/docs/concepts/services-networking/service/	Create a service			
	Know how to use Ingress rules.	https://kubernetes.io/docs/concepts/services-networking/ingress/	Create an ingress controller			
	Install Kubernetes masters and nodes.	https://kubernetes.io/docs/setup/independent/create-cluster-kubeadm/	Install single-master Kubernetes manually			
		https://kubernetes.io/docs/setup/independent/control-plane-flags/	Retreive a join token and join a worker node			
			Reset an existing worker node			
	Configure a Highly-Available Kubernetes cluster.	https://kubernetes.io/docs/setup/independent/high-availability/	Install multi-master Kubernetes manually			
	Know where to get the Kubernetes release					
		https://kubernetes.io/docs/setup/release/building-from-source/#designing-and-preparing	Build Kubernetes binary locally			
	binaries.	https://kubernetes.to/docs/setup/release/duliding-if-off-source/#designing-and-preparing				
		https://duberretes.io/docs/sequireteaseroulding-non-source-acesgring-and-preparing	Deploy multi-container Pod Create an init container			