Course Assessment Test

Course Title	Kubernetes in Depth	**Date**	Nov 2024
Name		**Dept**	

1)	*This assessment test is to be given out before course commencement. Answers are to be filled in column entitled "Pre-Course Answer"*
2)	*At the end of the course, the same assessment sheet is to be given out where answers are to be filled in column entitled "Post-Course Answer". Instructor will then share the answers and participants need to total the score in both "Pre" and "Post" columns through self-marking.*
3)	*Assessment sheets will be collected for filling.*

No	Question	Pre-Course Answer	Post-Course Answer
1	Which of the following is the primary control plane component in Kubernetes? a) kube-control b) kube-proxy c) etcd d) kube-apiserver		D
2	Which statement best characterizes a Kubernetes pod? a) A specific node that has replicated containers b) A group of containers that share the same network namespace and storage c) A group of services that exposes multiple deployments d) A configuration file for managing Kubernetes clusters		B
3	Which Kubernetes object is used to define and manage desired state of a containerized application? a) Node b) Deployment c) ConfigMap d) ReplicaSet		B

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4	Which of the following volume types is used for persistent storage across Pod restarts? a) networkDir b) PersistentStorageDir c) PersistentVolumeClaim d) ConfigMap		C
5	What is the role of a PersistentVolume (PV) in Kubernetes? a) It is a dynamically provisioned storage request. b) It represents a piece of storage in the cluster, either provisioned manually or dynamically. c) It is an ephemeral volume for short-lived tasks. d) It is a configuration file for Pod storage		B
6	Which of the following volume types is suitable for temporary storage, automatically cleared when the Pod is deleted? a) emptyDir b) tempDir c) closedDir d) transientDir		A
7	What is the primary purpose of a Kubernetes Service? a) To manage DNS within the cluster b) To provide networking between Pods in a Deployment c) To expose an application to other applications or the internet d) To schedule Pods on Nodes		C
8	What is a Kubernetes NetworkPolicy used for?		B

	a) To restrict access to certain Nodes b) To define how Pods communicate with each other and external resources c) To configure the cluster's load balancer d) To enforce authentication policies for Pods		
9	What is the primary role of the `eksctl` command-line tool? a) To create, manage, and scale EKS clusters b) To troubleshoot Kubernetes EKS clusters that cannot be managed via UI c) To configure Kubernetes NetworkPolicies on EKS d) To provision PersistentVolumes on AWS		A
10	When deploying an EKS cluster, which AWS service is primarily used to manage Kubernetes worker nodes? a) AWS Serverless Nodes b) Amazon EC2 c) AWS CloudFormation Master d) AWS Lambda Nodes		B
Total			