

Experiment 11 - Kubernetes

Total points 11/12 ?

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☐ TE 3☒ TE 4☐ TE 9

ROLL NO *

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✗ What is a cluster? *

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- ☐ A single system made up of servers and other resources
- ☐ A computer program or device that provides services to other computers
- ☐ A specific set of ordered operations
- ☒ A software package that performs a specific function for an end user

✗

✓ In the context of Kubernetes, what is a container? *

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- ☐ An application environment installed on software that imitates dedicated hardware
- ☒ A package that relies on virtual isolation technology to deploy and run applications that access a shared OS kernel
- ☐ A large metal box that is used to hold or transport something
- ☐ A unit that stores data on a computer's memory drive

✓

✓ What is a pod in Kubernetes and what does it do? *

1/1

- ☐ A collection of physical IT components that supports a group of containers
- ☐ A collection of logic circuitry that evaluates a computer's operational code
- ☐ Where you find peas
- ☒ One or more containers grouped together to share resources and run as a unit

✓



✓ What is the function of a node? *

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- ☐ To communicate with hosts on a network
- ☐ To store data collected by the OS
- ☒ To run pods according to master components ✓
- ☐ To channel incoming data from multiple input ports to a specific port

✓ Generally, what is a proxy service used for? *

1/1

- ☐ To supplant an authentic webpage in a search engine's index and search page results
- ☐ To connect external parties and route data between internal and external containers
- ☒ To act as an intermediary between an endpoint device and another server ✓
- ☐ To relay connection requests for inbound network traffic

✓ What is a kubelet? *

1/1

- ☒ A node agent that manages pods and their containers ✓
- ☐ Software that is used to run containers outside of pods
- ☐ A smaller version of Kubernetes
- ☐ A device that collects data in an organized manner for easy access



✓ What is the purpose of a ReplicaSet? *

1/1

- ☐ To prevent clones from invading other clusters
- ☐ To monitor and respond to environmental latency
- ☒ To duplicate pods
- ☐ To create and maintain volumes



✓ What is the mission of the control plane? *

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- ☐ To manage clusters of pods
- ☒ To regulate communication between Kubernetes and clusters
- ☐ To move workloads from one host to another
- ☐ To control nodes



✓ An abstraction in kubernetes which defines a logical set of pods and a policy to access them

*1/1

- ☐ Node
- ☒ Service
- ☐ Container
- ☐ Kubelet



✓ Which of the following are kubernetes hosted solutions? *

1/1

- ☐ Openshift Dedicated
- ☐ Google Container Engine
- ☒ Openshift Dedicated and Google Container Engine
- ☐ Amazon ECS



✓ Which is the intended use for etcd? *

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- ☒ To store all the cluster data, maintain its state and provide access to critical data
- ☐ To link a unique identifier to a value
- ☐ To encrypt cluster data and send it to a secrets manager
- ☐ To authenticate cluster data



✓ What is a Kubernetes volume? *

1/1

- ☐ The software within an OS that controls capacity allocation for nodes
- ☒ A directory for the data accessible to containers in a pod
- ☐ Layering software that puts apps into compartments for easier deployment
- ☐ Code that enables two software programs to communicate



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