Question No: 1

What are two ways a container in a Pod can consume ConfigMap data? (Choose two.)

A. Mounted as a Persistent Volume Claim (PVC)

B. From Read-only files

C. From Read-write files

D. From Environment variables

E. Containers do not consume ConfigMap data

Answer: B, D

Explanation:

Reference: https://kubernetes.io/docs/concepts/configuration/configmap/

Question No: 2

Which VMware product provides the ability to connect and protect microservices across any runtime and any cloud?

A. Tanzu Network Profiler

B. Tanzu Observability

C. Tanzu Service Mesh

D. NSX Advanced Load Balancer

Answer: C

Explanation:

References:

https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/products/vmware-tanzuservice-mesh-datasheet.pdf

Question No: 3

What are three capabilities of the VMware Tanzu Portfolio? (Choose three.)

A. Unified, Global Multi-Cluster Management

B. Container Build Automation

C. Physical Infrastructure Automation

D. Integrated Developer Environment (IDE)

E. Tanzu Programming Language

F. Enterprise-Ready Kubernetes Runtime

Answer: A, B, F

Explanation:

Reference: https://tanzu.vmware.com/tanzu

Question No: 4

What two kubectl commands would provide the status of Pod in a Kubernetes cluster? (Choose two.)

A. kubectl get pods

B. kubectl describe pods

C. kubectl pods status

D. kubectl status pods

Answer: A, B

Explanation:

Reference: https://kubernetes.io/docs/reference/kubectl/overview/

Question No: 5

What is the relationship between Kubernetes and containers?

A. There is no relationship between Kubernetes and containers

B. Kubernetes provides a platform for managing containerized workloads

C. Kubernetes is a place where you store container images

D. Kubernetes provides a way to build containers

Answer: B

Explanation:

Reference:

https://www.stackchief.com/tutorials/What%20is%20Kubernetes%3F%20%7C%20Kubernetes%20Tutorial

Question No: 6

What is the purpose of a container?

A. Make it difficult to change the environment that an application runs on

B. Abstract a running application from the environment that it runs on

C. Make it easy to change the runtime that an application uses

D. Allow a complex application to run as a single unit

Answer: D

Explanation:

Reference: https://www.cio.com/article/2924995/what-are-containers-and-why-do-you-needthem.html

Question No: 7

What is the valid way to deploy a Pod in a Kubernetes cluster?

A. Copy a manifest file to the API server in the /etc/kubernetes/pods directory

B. SSH to the worker node where the Pod is desired to run and issue the command "kubectl apply -f myPod.yaml"

C. Copy a manifest file to a worker node in the /etc/kubernetes/pods directory

D. Issue the command "kubectl apply -f myPod.yaml"

Answer: B

Explanation:

Reference: https://medium.com/analytics-vidhya/mlops-dockers-and-kubernetes-essentials-for-adata-scientist-8bc7b5866957

Question No: 8

VMware Tanzu is a family of products and services for modernizing _____ and _____.

A. Networks and Servers

B. Applications and Infrastructure

C. Networks and Applications

D. Infrastructure and Networks

Answer: B

Explanation:

Reference: https://tanzu.vmware.com/content/blog/all-the-ways-vmware-tanzutm-works-withaws#:~:text=VMware%20Tanzu%20is%20a%20family,deliver%20better%20software%20to%20production.&text=VMware%20Tanzu%20enables%20development%20and,to%20deliver%20transformative%20business%20results

Question No: 9

Which two goals can be achieved using a Kubernetes deployment? (Choose two.)

A. Change the container image in a Pod

B. Define different classes of storage

C. Increase the number of replicas of a given Pod

D. Grant an Active Directory user access to a Kubernetes cluster

E. Ensure that only one instance of a Pod will run on every node in a Kubernetes cluster

Answer: A, C

Explanation:

Question No: 10

Which Kubernetes Service type is invalid?

A. LoadBalancer

B. NodePort

C. InternalName

D. ExternalName

E. ClusterIP

Answer: C

Explanation:

Reference: https://kubernetes.io/docs/concepts/services-networking/service/

Question No: 11

List three benefits of Tanzu Mission Control: (Choose three.)

A. Converts your Kubernetes Clusters to ClusterAPI Mode

B. Enhances operational efficiency

C. Strengthens security and compliance

D. Provides CI/CD Pipeline Automation

E. Increases developer agility and productivity

Answer: B, C, E

Explanation:

Reference: https://tanzu.vmware.com/mission-control

Question No: 12

What is the result of Continuous Delivery?

A. An application build has been produced and ready for deployment to production

B. A broken application build is able to be fixed rapidly

C. An application build artifact has been produced

D. An application build has been produced and deployed to production

Answer: A

Explanation:

Reference: https://www.atlassian.com/continuous-delivery/principles/continuous-integration-vsdelivery-vs-deployment

Question No: 13

Why do enterprises need Application Modernization?

A. To build new applications is the only way to achieve a modern application

B. To realize the benefits of unstructured data over relational databases

C. The cost of maintaining older applications are too great

D. To migrate all applications to the cloud

Answer: C

Explanation:

Reference: https://www.anblicks.com/blog/key-benefits-of-application-modernization/

Question No: 14

Which are three container registries? (Choose three.)

A. Google Container Registry

B. Amazon Container Image Service

C. Docker Hub

D. Open Container Image Registry

E. Harbor

F. VMware Container Registry

Answer: B, E, F

Explanation:

Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-376FCCD1-7743-4202-ACCA-56F214B6892F.html

Question No: 15

Which are three valid ways to specify a Namespace when creating an object in Kubernetes? (Choose three.)

A. Specifying the Namespace in a ConfigMap

B. Specifying the Namespace in the container image for the object provided to "kubectl apply"

C. Specifying the Namespace in the context of the kubectl configuration file

D. Specifying the Namespace as an environment variable

E. Specifying the Namespace in the manifest file for the object provided to "kubectl apply"

F. Using the "--namespace" option when issuing a kubectl command

Answer: B, C, F

Explanation:

Reference: https://www.vmware.com/topics/glossary/content/kubernetes-namespace

Question No: 16

What is the minimum VMware Tanzu Edition that can be used to deploy Tanzu Kubernetes Grid on AWS?
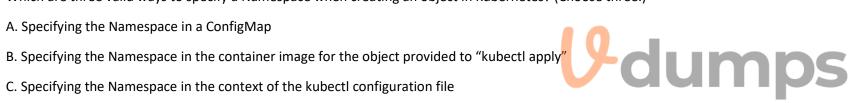
A. Tanzu Advanced

B. Tanzu Enterprise

C. Tanzu Standard

D. Tanzu Basic

Answer: D

Explanation:

Reference: https://vmc.techzone.vmware.com/resource/deploy-tanzu-kubernetes-grid-vmcaws#prerequisites-and-considerations

Question No: 17

Which are two cluster management capabilities of Tanzu Mission Control? (Choose two.)

A. Data protection

B. Multi-cloud distributed clusters

C. Cluster migration

D. Data encryption

E. Cluster observability and diagnostic

Answer: A, E

Explanation:

Reference: https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumcconcepts/GUID-E2B5BE05-596E-4999-9B21-1CDB875A1BBF.html

Question No: 18

Which two statements are true about Kubernetes Pods? (Choose two.)

A. A Pod is always highly available.

B. A Pod runs one or more containers.

C. A Pod can run no more than one container.

D. A Pod is the smallest execution unit in Kubernetes.

E. A Pod is a standard unit of software that packages up code and all its dependencies.

Answer: B, D

Explanation:

Reference: https://www.vmware.com/topics/glossary/content/kubernetes-pods

Question No: 19

Which two VMware Tanzu Editions include Tanzu Mission Control functionality? (Choose two.)

A. Tanzu Basic

B. Tanzu Advanced

C. Tanzu Standard

D. Tanzu Platinum

E. Tanzu Intermediate

Answer: B, C

Explanation:

Question No: 20

Which statement is FALSE regarding Kubernetes Services?

A. A service can be pointed to another service.

B. All services require selectors to function properly.

C. Services expose applications running on a pod or set of pods.

D. Services enable communication between pods running on different nodes.

Answer: B

Explanation:

Reference: https://www.vmware.com/topics/glossary/content/kubernetes-services

Question No: 21

What is the purpose of a Kubernetes Ingress object?

A. To specify HTTP and HTTPS traffic routing rules from outside the cluster to Services within thecluster

B. To load balance across a set of Pods

C. To manage the number of instances of a container image running within the cluster

D. To manage traffic between Services within the cluster

Answer: A

Explanation:

Reference: https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-457B1569-DFDC-4849-959C-72EDA72030AD.html#:~:text=VMware%20Pages&text=A%20Kubernetes%20ingress%20resource%20provides,party%20controllers%2C%20such%20as%20Nginx

Question No: 22

Which Tanzu product enables users to centralized management to consistently and operate and secure Kubernetes infrastructure and modern apps across multiple teams and clouds?

A. Tanzu Mission Control

B. Tanzu Build Service

C. Tanzu Kubernetes Grid

D. Tanzu Observability

Answer: A

Explanation:

Reference: https://cloudsolutions.vmware.com/services/tanzu-mission-control.html

Question No: 23

Which Kubernetes resource provides the specification of the number of running Pod instances?

A. ReplicaSet

B. Service

C. Cronjob

D. Daemonset

Answer: A

Explanation:

Reference: https://kubernetes.io/docs/concepts/workloads/controllers/replicaset/

Question No: 24

Which three platforms are supported by Tanzu Kubernetes Grid? (Choose three.)

A. Amazon Web Services EKS

B. Amazon Web Services EC2

C. Microsoft Azure Kubernetes Services

D. Microsoft Azure Virtual Machines

E. vSphere

F. Google Kubernetes Engine

Answer: B, C, E

Explanation:

Reference: https://docs.vmware.com/en/VMware-Tanzu-Kubernetes-Grid/index.html

Question No: 25

Which open source project is part of the Cloud Native Computing Foundation (CNCF)?

A. Spring

B. Harbor

C. Apache

D. vSphere 7.0

Answer: B

Explanation:

Reference: https://www.cncf.io/projects/harbor/

Question No: 26

Which VMware product monitors full-stack applications and cloud infrastructures with metrics, traces, span logs, and analytics?

A. Tanzu Operations Manager

B. vRealize Log Insight

C. Tanzu Observability

D. Splunk

Answer: C

Explanation:

Reference: https://learning.customerconnect.vmware.com/product/tanzu-observability-bywavefront

Question No: 27

What are two ways a Namespace helps organize a Kubernetes cluster? (Choose two.)

A. Divides cluster resources across users

B. Pools cluster resources between users

C. Provides a naming API

D. Prevents object name collisions

E. Shares objects within a cluster

Answer: A, E

Explanation:

Reference: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/

Question No: 28

What does it mean by a "lift and shift" approach regarding moving applications to the cloud?

A. Retiring the application and replacing it with a different application

B. Code changes and user facing changes

C. No code changes and no user facing changes

D. Code changes and no user facing changes

Answer: C

Explanation:

Reference: https://tanzu.vmware.com/what-is-application-modernization

Question No: 29

Which Tanzu product automates container creation, management, and governance operations at enterprise scale?

A. Tanzu Build Service

B. Tanzu Mission Control

C. Tanzu Container Automation

D. Tanzu Service Mesh

Answer: A

Explanation:

Reference: https://docs.vmware.com/en/VMware-Tanzu-Build-Service/index.html

Question No: 30

Which kubectl command is an example of declarative object management in Kubernetes?

A. kubectl manage

B. kubectl apply

C. kubectl create

D. kubectl patch

Answer: B

Explanation:

Reference: https://kubernetes.io/docs/tasks/manage-kubernetes-objects/declarative-config/

Question No: 31

What default file name is used to build a container image?

A. Containerfile

B. Ocifile

C. Buildpack

D. Dockerfile

Answer: C

Explanation:

Reference: https://docs.vmware.com/en/Tanzu-Build-Service/1.3/vmware-tanzu-build-servicev13/GUID-managing-images.html

Question No: 32

What three open source projects are included in Tanzu Kubernetes Grid? (Choose three.)

A. Contour

B. Vitess

C. Ansible

D. Harbor

E. Crossplane

F. Velero

Answer: A, D, F

Explanation:

Reference: https://docs.vmware.com/en/VMware-Tanzu-Toolkit-for-Kubernetes/index.html

Question No: 33

Which Kubernetes Service type can be accessed only from within the Kubernetes cluster?

A. ClusterIP

B. NodePort

C. LoadBalancer

D. ClusterRoleBinding

Answer: A

Explanation:

Reference: https://kubernetes.io/docs/concepts/services-networking/service/

Question No: 34

What is Sonobuoy?

A. An observability plugin for Kubernetes nodes

B. A diagnostic tool used to understand the state of a Kubernetes cluster

C. A distributed tracing platform used for monitoring microservices-based distributed systems

D. A container networking interface plugin

Answer: B

Explanation:

Reference: https://sonobuoy.io/

Question No: 35

What are two goals of Kubernetes in regards to containers? (Choose two.)

A. To provide middleware application-level services

B. To automate container lifecycle management

C. To describe the desired state for deployed containers

D. To deploy source code and build applications

Answer: B, C

Explanation:

Reference: https://kubernetes.io/docs/concepts/overview/what-is-kubernetes/

Question No: 36

What are two features of Tanzu Application Catalog? (Choose two.)

A. Backups and restores Kubernetes components from a graphical user interface.

B. Provides production ready open source container images.

C. Migrates legacy .NET applications to a Kubernetes infrastructure.

D. Creates a custom Operating System image.

E. Creates a deployment from an extensive library of application components, databases, and runtimes.

Answer: B, D

Explanation:

Reference: https://tanzu.vmware.com/content/blog/announcing-evolution-vmware-applicationcatalog

Question No: 37

If a Kubernetes Pod cannot be scheduled, where can the reason be found?

A. Pod Spec

B. Event

C. Container logs

D. Pod Status

Answer: B

Explanation:

Reference: https://www.datadoghq.com/blog/debug-kubernetes-pending-pods/

Question No: 38

What two problems do containers solve? (Choose two.)

A. Encrypting sensitive data in a packaged way

B. Duplicating the application code across microservices

C. Facilitating microservices deployments

D. Increasing efficiency by eliminating the need for a separate hypervisor for every containerized application

E. Ensuring sets of virtual machines are protected from external network security threats

Answer: B, D

Explanation:

Question No: 39

What are true statements about Microservices? (Choose two.)

A. They don't scale.

B. They are decoupled.

C. They are tightly coupled together.

D. They are used to create modular applications.

E. They are centrally managed.

Answer: B, D

Explanation:

Reference: https://www.oreilly.com/radar/modules-vs-microservices/

Question No: 40

What are three features of Harbor? (Choose three.)

A. Security and Vulnerability Analysis

B. Container Build Service

C. Role-Based Access Control

D. Replication across multiple registries

E. Secure Container Runtime

F. SQL storage

Answer: A, C, D

Explanation:

Reference: https://goharbor.io/

Question No: 41

What layer is present in a virtual machine that is not present in a container?

A. Operating system

B. Application files

C. Application configuration files

D. Supporting libraries

Answer: A

Explanation:

Reference: https://www.electronicdesign.com/technologies/dev-tools/article/21801722/whats-thedifference-between-containers-and-virtual-machines

Question No: 42

What functionalities does Velero provide? (Choose three.)

A. A Helm chart repository

B. An application Continuous Deployment (CD) tool

C. A Kubernetes resource migration tool

D. A disaster recovery tool

E. A Kubernetes cluster deployment tool

F. A tool to safely perform backups and restores

Answer: C, D, F

Explanation:

Reference: https://medium.com/mycloudseries/what-is-velero-1f205650b76c

Question No: 43

What are three capabilities of VMware Tanzu Observability? (Choose three.)

A. Full-Stack Troubleshooting

B. Smart alerting

C. Multi-Cluster Networking

D. Multi-source Log Sink Agent

E. Runtime Cost Analysis

F. Analytics-Driven custom metrics

Answer: A, B, F

Explanation:

Reference: https://tanzu.vmware.com/content/vmware-tanzu-observability-features

https://tanzu.vmware.com/content/blog/byo-spring-boot-apps-tanzu-observability-for-free-no-signup-needed

Question No: 44

Which two products are part of Tanzu Portfolio? (Choose two.)

A. Tanzu Kubernetes control

B. Tanzu Application Build

C. Tanzu Kubernetes Grid

D. Tanzu Build Service

E. Tanzu Service Cloud

Answer: C, D

Explanation:

Reference: https://tanzu.vmware.com/tanzu

Question No: 45

Which state is invalid in a Pod's lifecycle?

A. Failed

B. Running

C. Succeeded

D. Setup

E. Pending

Answer: D

Explanation:

Reference: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle/

Question No: 46

What functionality does Harbor provide?

A. A container runtime to run containers in Kubernetes

B. An artifact repository for container images

C. A backup and restore capability to Kubernetes clusters

D. A dashboard interface for developers to interact with Kubernetes

Answer: B

Explanation:

Reference: https://goharbor.io/docs/2.0.0/working-with-projects/working-with-images/repositories/

Question No: 47

Which are the four components in Tanzu Build Service? (Choose four.)

A. Image Cluster

B. Builder

C. ClusterStore

D. ClusterStack

E. Image

F. Builder Stack

G. Builder Store

Answer: B, C, D, E

Explanation:

Reference: https://docs.vmware.com/en/Tanzu-Build-Service/1.2/vmware-tanzu-build-servicev12/GUID-docs-build-service-index.html

Question No: 48

What s Tanzu Mission Control?

A. A complete modern software development supply chain including build and CI/CD services

B. A ubiquitous kubernetes image that works across all clouds

C. A next-generation cloud firewall

D. A centralized management platform for consistently operating and securing your Kubernetes infrastructure and modern applications across multiple teams and clouds

Answer: D

Explanation:

Reference: https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/index.html

Question No: 49

Which four capabilities are provided by VMware Tanzu Mission Control? (Choose four.)

A. Data Protection

B. CI/CD Pipeline Automation

C. Cluster Lifecycle Management

D. Container Build Services

E. Audit and Compliance

F. Multi-Cluster Network Tunneling

G. Production Kubernetes Runtime

H. Identity and Access Control

Answer: A, C, D, H

Explanation:

Reference: https://tanzu.vmware.com/missioncontrol#:~:text=Today%2C%20Tanzu%20Mission%20Control%20supports,AWS%2C%20and%20Azure%20VMware%20Solution

Question No: 50

What is a defining characteristic of a Microservice?

A. An architectural pattern that encapsulates a specific business capability.

B. A failover mechanism for legacy applications.

C. A new technology to handle API management.

D. Software for automation of container orchestration.

Answer: A

Explanation:

Reference: https://tanzu.vmware.com/microservices

Question No: 51

Which Tanzu product provides a customizable selection of open source, production-ready software packages?

A. Tanzu Application Catalog

B. Tanzu Observability

C. Tanzu Mission Control

D. Tanzu Application Service

Answer: A

Explanation:

Reference: https://tanzu.vmware.com/application-catalog

Question No: 52

What is Antrea?

A. A Kubernetes networking solution based on Open vSwitch

B. A Kubernetes networking solution based on eBPF

C. A Kubernetes networking solution based on OpenStack Neutron

D. A Kubernetes networking solution based on BGP

Answer: A

Explanation:

Reference: https://reposhub.com/go/network/vmware-tanzu-antrea.html

Question No: 53

What are three components of a Kubernetes worker node? (Choose three.)

A. Kubelet

B. Language runtime

C. Container runtime

D. Scheduler

E. Etcd

F. Kube-proxy

Answer: A, C, F

Explanation:

Reference: https://kubernetes.io/docs/concepts/overview/components/#node-components

Question No: 54

List three benefits of vSphere with Tanzu: (Choose three.)

A. Aligns DevOps and IT

B. Manages cost in the cloud

C. Simplifies IT Operations

D. Kubernetes Application Performance Management

E. Optimizes application code

F. Delivers Developer Ready Infrastructure

Answer: A, C, F

Explanation:

Reference:

https://tanzu.vmware.com/tanzu/?utm_source=google&utm_medium=cpc&utm_campaign=amer_gpb&utm_content=g2_t023&utm_term=tanzu%20cloud&_bt=530748658078&_bk=tanzu%20cloud&_bm=b&_bn=g&_bg=124764469
152&gclid=CjwKCAiAqIKNBhAIEiwAu_ZLDmrDD0woeWbzJpuysSLfPQnFXv5qQPZLlqPk1k5yISUHKjI-S91p2BoCsyIQAvD_BwE

Question No: 55

Which VMware Tanzu products use ClusterAPI?

A. Tanzu Kubernetes Grid and Tanzu Application Catalog

B. Tanzu Kubernetes Grid and Tanzu Mission Control

C. Tanzu Application Catalog and Tanzu Mission Control

D. Tanzu Observability and Tanzu Mission Control

Answer: B

Explanation:

Reference: https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/services/tanzumcconcepts.pdf

https://docs.vmware.com/en/VMware-vSphere/7.0/vmware-vsphere-with-tanzu/GUID-4D0D375FC001-4F1D-AAB1-
1789C5577A94.html#:~:text=Tanzu%20Kubernetes%20Grid%20Service%20API&text=It%20is%20a%20declarative%20API,VM%20sizes%2C%20Kubernetes%20software%20version

Question No: 56

Which three are features and benefits of Tanzu Kubernetes Grid? (Choose three.)

A. Monitor full-stack applications to cloud infrastructures with metrics, traces, span logs, and analytics

B. Extend the same consistent Kubernetes runtime across your public cloud and edge environments

C. Provide Container Build Services consistently to a fleet of clusters

D. Automated multicluster operations

E. Local and in-cluster platform services including logging, monitoring, networking, and storage services

F. A continuously maintained catalog of open-source components and applications

Answer: B, D, E

Explanation:

Reference: https://tanzu.vmware.com/kubernetes-grid

Question No: 57

Which Tanzu product provides centralized monitoring and management for Tanzu Kubernetes Grid and other conformant Kubernetes clusters?
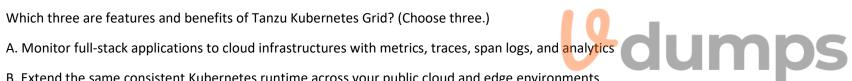
A. Tanzu Build Service

B. Tanzu Application Catalog

C. Tanzu Application Service

D. Tanzu Mission Control

Answer: D

Explanation:

Reference: https://docs.vmware.com/en/VMware-Tanzu-Mission-Control/index.html

Question No: 58

What are two benefits of Containers versus Virtual Machines? (Choose two.)

A. Emulate an entire computing environment, including all OS resources

B. Has the ability to run multiple applications requiring different OSs on a single piece of infrastructure

C. Requires fewer IT resources to deploy, run, and manage

D. Can spin up in milliseconds

Answer: C, D

Explanation:

Reference: https://www.vmware.com/topics/glossary/content/vms-vs-containers

Question No: 59

Which command can be used to build a container image?

A. docker image create

B. oci build

C. docker build

D. tanzu build

Answer: C

Explanation:

Reference: https://stackify.com/docker-build-a-beginners-guide-to-building-docker-images/

Question No: 60

Which Tanzu product provides an enterprise-ready Kubernetes runtime that streamlines operations across multi-cloud infrastructure?

A. Tanzu Kubernetes Grid

B. Tanzu Build Service

C. Tanzu Observability

D. Tanzu Mission Control

Answer: A

Explanation:

Reference: https://tanzu.vmware.com/kubernetes-grid