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We here at CertylQ eventually got enough of the industry's greedy exam paid for. Our team of IT professionals comes with years of experience in the IT industry Prior to training CertlQ we worked in test areas where we observed the horrors of the paywall exam preparation system.

The misuse of the preparation system has left our team disillusioned. And for that reason, we decided it was time to make a difference. We had to make In this way, CertylQwas created to provide quality materials without stealing from everyday people who are trying to make a living.

Doubt Support

We have developed a very scalable solution using which we are able to solve 400+ doubts every single day with an average rating of 4.8 out of 5.

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We provide lifetime free updates to our customers. To make life easier for our valued customers and fulfill their needs





John

October 19, 2022



Thanks you so much for your help. I scored 972 in my exam today. More than 90% were from your PDFs!

Dana

September 04, 2022



Thanks a lot for this updated AZ-900 Q&A. I just passed my exam and got 974, I followed both of your Az-900 videos and the 6 PDF, the PDFs are very much valid, all answers are correct. Could you please create a similar video/PDF for DP900, your content/PDF's is really awesome. The team did a really good job. Thank You ...

Ahamed Shibly

2 months ag



Customer support is realy fast and helpful, I just finished my exam and this video along with the 6 PDF helped me pass! Definitely recommend getting the PDFs.
Thank you!

October 22, 2022



Passed my exam today with 891 marks. Out of 52 questions, 51 were from certyiq PDFs including Contoso case study.
Thank You certyiq team!

Henry Rome

2 months ago



These questions are real and 100 % valid. Thank you so much for your efforts, also your 4 PDFs are awesome, I passed the DP900 exam on 1 Sept. With 968 marks. Thanks a lot, buddy!

Esmaria

2 months ago



Simple easy to understand explanations. To anyone out there wanting to write AZ900, I highly recommend 6 PDF's.Thank you so much, appreciate all your hard work in having such great content. Passed my exam Today -3

September with 942 score.

Linux Foundation

(KCNA)

Kubernetes and Cloud Native Associate

Total: 138 Questions

Link: https://certyiq.com/papers/linux-foundation/kcna

Question: 1	CertylO
What native runtime is Open Container Initiative (OCI) compliant?	
A. runC	
B. runV	
C. kata-containers	
D. gvisor	
Answer: A	

Question: 2 CertylQ

Which API object is the recommended way to run a scalable, stateless application on your cluster?

- A. ReplicaSet
- B. Deployment
- C. DaemonSet
- D. Pod

Answer: B

Question: 3 CertylQ

A CronJob is scheduled to run by a user every one hour. What happens in the cluster when it's time for this CronJob to run?

- A. Kubelet watches API Server for CronJob objects. When it's time for a Job to run, it runs the Pod directly.
- B. Kube-scheduler watches API Server for CronJob objects, and this is why it's called kube-scheduler.
- C. CronJob controller component creates a Pod and waits until it finishes to run.
- D. CronJob controller component creates a Job. Then the Job controller creates a Pod and waits until it finishes to run.

Answer: D

Question: 4 CertyIQ

What is the purpose of the kubelet component within a Kubernetes cluster?

- A. A dashboard for Kubernetes Clusters that allows management and troubleshooting of applications.
- B. A network proxy that runs on each node in your cluster, implementing part of the Kubernetes Service concept.
- C. A component that watches for newly created Pods with no assigned node, and selects a node for them to run on.
- D. An agent that runs on each node in the cluster. It makes sure that containers are running in a Pod.

Answer: D

Question: 5 CertylQ

What is the default value for authorization-mode in Kubernetes API server?

- A.--authorization-mode=RBAC
- B.--authorization-mode=AlwaysAllow
- C.--authorization-mode=AlwaysDeny
- D.--authorization-mode=ABAC

Answer: B

Question: 6 CertyIQ

Let's assume that an organization needs to process large amounts of data in bursts, on a cloud-based Kubernetes cluster. For instance: each Monday morning, they need to run a batch of 1000 compute jobs of 1 hour each, and these jobs must be completed by Monday night. What's going to be the most cost-effective method?

A.Run a group of nodes with the exact required size to complete the batch on time, and use a combination of taints, tolerations, and nodeSelectors to reserve these nodes to the batch jobs.

B.Leverage the Kubernetes Cluster Autoscaler to automatically start and stop nodes as they're needed.

C.Commit to a specific level of spending to get discounted prices (with e.g. "reserved instances" or similar mechanisms).

D.Use PriorityClasses so that the weekly batch job gets priority over other workloads running on the cluster, and can be completed on time.

Answer: B

Question: 7 CertyIQ

What is a Kubernetes service with no cluster IP address called?

- A.Headless Service
- **B.Nodeless Service**
- C.IPLess Service
- **D.Specless Service**

Answer: A

Question: 8 CertyIQ

CI/CD stands for:

A.Continuous Information / Continuous Development

B.Continuous Integration / Continuous Development

C.Cloud Integration / Cloud Development

D.Continuous Integration / Continuous Deployment

Answer: D

Question: 9 CertylQ What default level of protection is applied to the data in Secrets in the Kubernetes API? A.The values use AES Symmetric Encryption B.The values are stored in plain text C.The values are encoded with SHA256 hashes D.The values are base64 encoded **Answer: D Question: 10 CertyIQ** What function does kube-proxy provide to a cluster? A.Implementing the Ingress resource type for application traffic. B. Forwarding data to the correct endpoints for Services. C.Managing data egress from the cluster nodes to the network. D.Managing access to the Kubernetes API. **Answer: B Question: 11** CertylQ How long should a stable API element in Kubernetes be supported (at minimum) after deprecation?

A.9 months

B.24 months

C.12 months

D.6 months

Answer: C

Question: 12 CertyIQ

What is the name of the lightweight Kubernetes distribution built for IoT and edge computing?

A.OpenShift

B.k3s

C.RKE

D.k1s

Answer: B

Question: 13 CertyIQ

B.Cluster Autoscaler	
C.Horizontal Pod Autoscaler	
D.Vertical Pod Autoscaler	
Answer: B	
Question: 14	CertyIQ
Which of the following statements is correct concerning Open Policy Agent (OPA)?	
A.The policies must be written in Python language.	
B.Kubernetes can use it to validate requests and apply policies.	
C.Policies can only be tested when published.	
D.It cannot be used outside Kubernetes.	
Answer: B	
Question: 15	CertyIQ
In a cloud native world, what does the IaC abbreviation stands for?	
A.Infrastructure and Code	
B.Infrastructure and Code	
C.Infrastructure above Code	
D.Infrastructure across Code	
D.IIII astructure across code	
Answer: B	
Question: 16	Control
In which framework do the developers no longer have to deal with capacity, deployments, scaling an tolerance, and OS?	CertyIQ and fault
A.Docker Swam	
B.Kubernetes	
C.Mesos	
D.Serverless	
Answer: D	
Question: 17	CertyIQ
Which of the following characteristics is associated with container orchestration?	Jertyle

Kubernetes ___ allows you to automatically manage the number of nodes in your cluster to meet demand.

A.Node Autoscaler

Ouestion: 21	CertylO
Answer: D	
D.kubectl logs -f test-container-1	
C.kubectl logs -l test-container-1	
B.kubectl logs -c test-container-1	
A.kubectl logs -p test-container-1	
Which is the correct kubectl command to display logs in real time?	
Question: 20	CertyIQ
Allower	
Answer: B	
D.An end to end testing project for Kubernetes applications.	
C.A custom scheduler for Kubernetes.	
B.A package manager for Kubernetes applications.	
A.An open source dashboard for Kubernetes.	
What is Helm?	
Question: 19	CertylQ
Answer: A	
D.DaemonSet	
C.Deployment	
B.CronJob	
A.StatefulSet	
Which of the following workload require a headless service while deploying into the namespace?	
Question: 18	CertyIQ
Answer: B	
D.Virtual Machine distribution	
C.Deploying application JAR files	
B.Dynamic scheduling	

How to load and generate data required before the Pod startup?

A.Use an init container with shared file storage.

B.Use a PVC volume.

A.Application message distribution

C.Use a sidecar container with shared volume.

D.Use another pod with a PVC.

Answer: A

Question: 22 CertylQ

What is the core functionality of GitOps tools like Argo CD and Flux?

- A.They track production changes made by a human in a Git repository and generate a human-readable audit trail.
- B.They replace human operations with an agent that tracks Git commands.
- C.They automatically create pull requests when dependencies are outdated.
- D.They continuously compare the desired state in Git with the actual production state and notify or act upon differences.

Answer: D

Question: 23 CertylQ

Which Kubernetes resource workload ensures that all (or some) nodes run a copy of a Pod?

- A.ReplicaSet
- **B.StatefulSet**
- C.DaemonSet
- **D.Deployment**

Answer: C

Question: 24 CertylQ

We can extend the Kubernetes API with Kubernetes API Aggregation Layer and CRDs. What is CRD?

- A.Custom Resource Definition
- **B.Custom Restricted Definition**
- C.Customized RUST Definition
- **D.Custom RUST Definition**

Answer: A

Question: 25 CertyIQ

The Kubernetes project work is carried primarily by SIGs. What does SIG stand for?

- A.Special Interest Group
- **B.Software Installation Guide**
- C.Support and Information Group

D.Strategy Implementation Group

Answer: A

Question: 26 CertyIQ

What is the order of 4C's in Cloud Native Security, starting with the layer that a user has the most control over?

A.Cloud -> Container -> Cluster -> Code

B.Container -> Cluster -> Code -> Cloud

C.Cluster -> Container -> Code -> Cloud

D.Code -> Container -> Cluster -> Cloud

Answer: D

Question: 27 CertylQ

Which group of container runtimes provides additional sandboxed isolation and elevated security?

A.rune, cgroups

B.docker, containerd

C.runsc, kata

D.crun, cri-o

Answer: C

Question: 28 CertylQ

What is the common standard for Service Meshes?

A.Service Mesh Specification (SMS)

B.Service Mesh Technology (SMT)

C.Service Mesh Interface (SMI)

D.Service Mesh Function (SMF)

Answer: C

Question: 29 CertyIQ

Which statement about Ingress is correct?

A.Ingress provides a simple way to track network endpoints within a cluster.

B.Ingress is a Service type like NodePort and ClusterIP.

C.Ingress is a construct that allows you to specify how a Pod is allowed to communicate.

D.Ingress exposes routes from outside the cluster to services in the cluster.

Answer: D

Question: 30 CertyIQ

What best describes cloud native service discovery?

A.It's a mechanism for applications and microservices to locate each other on a network.

B.It's a procedure for discovering a MAC address, associated with a given IP address.

C.It's used for automatically assigning IP addresses to devices connected to the network.

D.It's a protocol that turns human-readable domain names into IP addresses on the Internet.

Answer: A

Question: 31 CertyIQ

What components are common in a service mesh?

A.tracing and log storage

B.circuit breaking and Pod scheduling

C.data plane and runtime plane

D.service proxy and control plane

Answer: D

Question: 32 CertyIQ

Which storage operator in Kubernetes can help the system to self-scale, self-heal, etc?

A.Rook

B.Kubernetes

C.Helm

D.Container Storage Interface (CSI)

Answer: A

Question: 33 CertyIQ

What fields must exist in any Kubernetes object (e.g. YAML) file?

A.apiVersion, kind, metadata

B.kind, namespace, data

C.apiVersion, metadata, namespace

D.kind, metadata, data

Answer: A

Question: 34 CertylQ

Which of the following would fall under the responsibilities of an SRE?

- A.Developing a new application feature.
- B.Creating a monitoring baseline for an application.
- C.Submitting a budget for running an application in a cloud.
- D.Writing policy on how to submit a code change.

Answer: B

Question: 35 CertyIQ

What are the initial namespaces that Kubernetes starts with?

A.default, kube-system, kube-public, kube-node-lease

B.default, system, kube-public

C.kube-default, kube-system, kube-main, kube-node-lease

D.kube-default, system, kube-main, kube-primary

Answer: A

Question: 36 CertyIQ

What is a probe within Kubernetes?

- A.A monitoring mechanism of the Kubernetes API.
- B.A pre-operational scope issued by the kubectl agent.
- C.A diagnostic performed periodically by the kubelet on a container.
- D.A logging mechanism of the Kubernetes API.

Answer: C

Question: 37 CertyIQ

Which Kubernetes feature would you use to guard against split brain scenarios with your distributed application?

- A.Replication controllers
- **B.Consensus protocols**
- C.Rolling updates
- D.StatefulSet

Answer: D

Question: 38 CertylQ

What feature must a CNI support to control specific traffic flows for workloads running in Kubernetes?

- A.Border Gateway Protocol
- **B.IP Address Management**
- C.Pod Security Policy
- **D.Network Policies**

Answer: D

Question: 39 CertyIQ

What is the main role of the Kubernetes DNS within a cluster?

- A.Acts as a DNS server for virtual machines that are running outside the cluster.
- B.Provides a DNS as a Service, allowing users to create zones and registries for domains that they own.
- C.Allows Pods running in dual stack to convert IPv6 calls into IPv4 calls.
- D.Provides consistent DNS Names for Pods and Services for workloads that need to communicate with each other.

Answer: D

Question: 40 CertylQ

Scenario: You have a Kubernetes cluster hosted in a public cloud provider. When trying to create a Service of type LoadBalancer, the external-ip is stuck in the "Pending" state. Which Kubernetes component is failing in this scenario?

- A.Cloud Controller Manager
- **B.Load Balancer Manager**
- C.Cloud Architecture Manager
- D.Cloud Load Balancer Manager

Answer: A

Question: 41 CertyIQ

What are the characteristics for building every cloud-native application?

- A.Resiliency, Operability, Observability, Availability
- B.Resiliency, Containerd, Observability, Agility
- C.Kubernetes, Operability, Observability, Availability
- D.Resiliency, Agility, Operability, Observability

Answer: D

Question: 42 CertylQ

What does CNCF stand for?

- A.Cloud Native Community Foundation
- **B.Cloud Native Computing Foundation**
- **C.Cloud Neutral Computing Foundation**
- **D.Cloud Neutral Community Foundation**

Answer: B

Question: 43 CertyIQ

Kubernetes supports multiple virtual clusters backed by the same physical cluster. These virtual clusters are called:

A.namespaces

B.containers

C.hypervisors

D.cgroups

Answer: A

Question: 44 CertylQ

What component enables end users, different parts of the Kubernetes cluster, and external components to communicate with one another?

A.kubectl

B.AWS Management Console

C.Kubernetes API

D.Google Cloud SDK

Answer: C

Question: 45 CertylQ

Which command will list the resource types that exist within a cluster?

A.kubectl api-resources

B.kubectl get namespaces

C.kubectl api-versions

D.curl https://kubectrl/namespaces

Answer: A

Question: 46 CertyIQ

Which of these components is part of the Kubernetes Control Plane?

A.coredns

Question: 47	CertyIQ
Answer: b	
Answer: B	
D.kubelet	
C.kube-proxy	
B.cloud-controller-manager	

Which of the following systems is NOT compatible with the CRI runtime interface standard?

A.CRI-0

B.dockershim

C.systemd

D.containerd

Answer: C

Question: 48 CertyIQ

What is a key feature of a container network?

A.Proxying REST requests across a set of containers.

B.Allowing containers running on separate hosts to communicate.

C.Allowing containers on the same host to communicate.

D.Caching remote disk access.

Answer: B

Question: 49 CertyIQ

How can you monitor the progress for an updated Deployment/DaemonSets/StatefulSets?

A.kubectl rollout watch

B.kubectl rollout progress

C.kubectl rollout state

D.kubectl rollout status

Answer: D

Question: 50 CertyIQ

What is the goal of load balancing?

A. Automatically measure request performance across instances of an application.

B.Automatically distribute requests across different versions of an application.

C.Automatically distribute instances of an application across the cluster.

D.Automatically distribute requests across instances of an application.
Answer: D

Question: 51 CertyIQ

How are ReplicaSets and Deployments related?

- A.Deployments manage ReplicaSets and provide declarative updates to Pods.
- B.ReplicaSets manage stateful applications, Deployments manage stateless applications.
- C.Deployments are runtime instances of ReplicaSets.
- D.ReplicaSets are subsets of Jobs and CronJobs which use imperative Deployments.

Answer: A

Question: 52 CertylQ

What factors influence the Kubernetes scheduler when it places Pods on nodes?

- A.Pod memory requests, node taints, and Pod affinity.
- B.Pod labels, node labels, and request labels.
- C.Node taints, node level, and Pod priority.
- D.Pod priority, container command, and node labels.

Answer: A

Question: 53 CertylQ

What is the core metric type in Prometheus used to represent a single numerical value that can go up and down?

- A.Summary
- **B.Counter**
- C.Histogram
- D.Gauge

Answer: D

Question: 54 CertylQ

What is the primary mechanism to identify grouped objects in a Kubernetes cluster?

- A.Custom Resources
- **B.Labels**
- C.Label Selector
- D.Pod

Answer: B		

Question: 55 CertyIQ

What is the name of the Kubernetes resource used to expose an application?

A.Port

B.Service

C.DNS

D.Deployment

Answer: B

Question: 56 CertylQ

What is a DaemonSet?

A.It's a type of workload that ensures a specific set of nodes run a copy of a Pod.

B.It's a type of workload responsible for maintaining a stable set of replica Pods running in any node.

C.It's a type of workload that needs to be run periodically on a given schedule.

D.It's a type of workload that provides guarantees about ordering, uniqueness, and identity of a set of Pods.

Answer: A

Question: 57 CertyIQ

What is the telemetry component that represents a series of related distributed events that encode the end-to-end request flow through a distributed system?

A.Metrics

B.Logs

C.Spans

D.Traces

Answer: D

Question: 58 CertyIQ

In the Kubernetes platform, which component is responsible for running containers?

A.etcd

B.CRI-O

C.cloud-controller-manager

D.kube-controller-manager

Answer: B

Question: 59	CertylQ
Services and Pods in Kubernetes are objects.	
A.JSON	
B.YAML	
C.Java	
D.REST	
Answer: D	
Question: 60 What Kubernetes component handles network communications inside and outside of a cluster, using	CertylQ
system packet filtering if available?	operating
A.kube-proxy	
B.kubelet	
C.etcd	
D.kube-controller-manager	
Answer: A	
Question: 61	CertyIQ
What Kubernetes control plane component exposes the programmatic interface used to create, manainteract with the Kubernetes objects?	age and
A.kube-controller-manager	
B.kube-proxy	
C.kube-apiserver	
D.etcd	
Answer: C	
Question: 62	CertylQ
Question: 62 Which type of Service requires manual creation of Endpoints?	CertyIQ

B.Services without selectors

D.ClusterIP with selectors

C.NodePort

Answer: B

Question: 63	CertylQ	
Which of these commands is used to retrieve the documentation and field definitions for a Ku	ubernetes resource?	
A.kubectl explain		
B.kubectl api-resources C.kubectl gethelp		
Answer: A		
Question: 64	CertylQ	
Which of the following is a lightweight tool that manages traffic flows between services, enf and aggregates telemetry data, all without requiring changes to application code?	orces access policies	
A.NetworkPolicy		
B.Linkerd		
C.kube-proxy		
D.Nginx		
Answer: B		
Question: 65	CertylQ	
Which Kubernetes resource uses immutable: true boolean field?		
A.Deployment		
B.Pod		
C.ConfigMap		
D.ReplicaSet		
Answer: C		
Question: 66	CertylQ	
Which statement about the Kubernetes network model is correct?		
A.Pods can only communicate with Pods exposed via a Service.		

Answer: B

C.The Pod IP is only visible inside a Pod.

D.The Service IP is used for the communication between Services.

Question: 67 CertylQ

A.Pod B.ContainerSet C.ReplicaSet D.Deployment Answer: A Question: 68 Can a Kubernetes Service expose multiple ports? A.No, you can only expose one port per each Service.	CertylQ
C.ReplicaSet D.Deployment Answer: A Question: 68 Can a Kubernetes Service expose multiple ports? A.No, you can only expose one port per each Service.	CertylQ
D.Deployment Answer: A Question: 68 Can a Kubernetes Service expose multiple ports? A.No, you can only expose one port per each Service.	CertylQ
Answer: A Question: 68 Can a Kubernetes Service expose multiple ports? A.No, you can only expose one port per each Service.	CertylQ
Can a Kubernetes Service expose multiple ports? A.No, you can only expose one port per each Service.	CertyIQ
A.No, you can only expose one port per each Service.	
B.Yes, but you must specify an unambiguous name for each port.	
C.Yes, the only requirement is to use different port numbers.	
D.No, because the only port you can expose is port number 443.	
Answer: B	
Question: 69	CertyIQ
Which persona is normally responsible for defining, testing, and running an incident management pro	cess?
A.Site Reliability Engineers	
B.Project Managers	
C.Application Developers	
D.Quality Engineers	
Answer: A	
Question: 70	CertylQ

A.Rolling update

B.Blue/Green deployment

C.Canary deployment

D.Recreate deployment

Answer: A

CertyIQ Question: 71

Which command provides information about the field replicas within the spec resource of a deployment object?

A.kubectl get deployment.spec.replicas

B.kubectl explain deployment.spec.replicas

C.kubectl describe deployment.spec.replicas

D.kubectl explain deployment --spec.replicas

Answer: B

Question: 72 CertyIQ

Which of the following is a responsibility of the governance board of an open source project?

- A.Decide about the marketing strategy of the project.
- B.Review the pull requests in the main branch.
- C.Outline the project's "terms of engagement".
- D.Define the license to be used in the project.

Answer: C

Question: 73 CertyIQ

What is the role of a NetworkPolicy in Kubernetes?

- A.The ability to cryptic and obscure all traffic.
- B.The ability to classify the Pods as isolated and non isolated.
- C.The ability to prevent loopback or incoming host traffic.
- D.The ability to log network security events.

Answer: B

Question: 74 CertylQ

What are the most important resources to guarantee the performance of an etcd cluster?

A.CPU and disk capacity.

- B.Network throughput and disk I/O.
- C.CPU and RAM memory.
- D.Network throughput and CPU.

Answer: D

Question: 75 CertylQ

How do you deploy a workload to Kubernetes without additional tools?

- A.Create a Bash script and run it on a worker node.
- B.Create a Helm Chart and install it with helm.
- C.Create a manifest and apply it with kubectl.

D.Create a Python script and run it with kubectl.

Answer: C

Question: 76 CertyIQ

How do you perform a command in a running container of a Pod?

A.kubectl exec --

B.docker exec

C.kubectl run --

D.kubectl attach -i

Answer: A

Question: 77 CertyIQ

How to create a headless service?

A.By specifying .spec.ClusterIP: headless

B.By specifying .spec.clusterIP: None

C.By specifying .spec.ClusterIP: 0.0.0.0

D.By specifying .spec.ClusterIP: localhost

Answer: B

Question: 78 CertyIQ

How does dynamic storage provisioning work?

A.A user requests dynamically provisioned storage by including an existing storage class in their PersistentVolumeClaim.

B.An administrator creates a storage class and includes it in their pod YAML definition file without creating a PersistentVolumeClaim.

C.A pod requests dynamically provisioned storage by including a storage class and the pod name in their PersistentVolumeClaim.

D.An administrator creates a PersistentVolume and includes the name of the PersistentVolume in their pod YAML definition file.

Answer: A

Question: 79 CertyIQ

Which of the following are tasks performed by a container orchestration tool?

- A.Schedule, scale, and manage the health of containers.
- B.Create images, scale, and manage the health of containers.
- C.Debug applications, and manage the health of containers.

D.Store images, scale, and manage the health of containers.

Answer: A

Question: 80 CertylQ

Which of the following is a definition of Hybrid Cloud?

A.An architecture that uses a combination of services running in public and private data centers, only including data centers from the same cloud provider.

B.A cloud native architecture that uses a combination of services running in public clouds, excluding data centers in different availability zones.

C.A cloud native architecture that uses a combination of services running in different public and private clouds, including on-premises data centers.

D.An architecture that uses a combination of services running in public and private data centers, excluding serverless functions.

Answer: C

Question: 81 CertyIQ

What is a Kubernetes Service Endpoint?

A.It is the API Endpoint of our Kubernetes cluster.

B.It is a name of special Pod in kube-system namespace.

C.It is an IP address that we can access from the Internet.

D.It is an object that gets IP addresses of individual Pods assigned to it.

Answer: D

Question: 82 CertyIQ

Why is Cloud-Native Architecture important?

A.Cloud Native Architecture revolves around containers, microservices and pipelines.

B.Cloud Native Architecture removes constraints to rapid innovation.

C.Cloud Native Architecture is modern for application deployment and pipelines.

D.Cloud Native Architecture is a bleeding edge technology and service.

Answer: B

Question: 83 CertylQ

Which kubernetes component is the smallest deployable unit of computing?

A.StatefulSet

B.Deployment

Which are the two primary modes for Service discovery within a Kubernetes cluster?	
Question: 84	CertyIQ
Answer: D	
D.Container	
C.Pod	

A.Environment variables and DNS

B.API Calls and LDAP

C.Labels and Radius

D.Selectors and DHCP

Answer: A

Question: 85 CertylQ

Which of the following capabilities are you allowed to add to a container using the Restricted policy?

A.CHOWN

B.SYS_CHROOT

C.SETUID

D.NET_BIND_SERVICE

Answer: D

Question: 86 CertyIQ

What methods can you use to scale a deployment?

A.With kubectl edit deployment exclusively.

B.With kubectl scale-up deployment exclusively.

C.With kubectl scale deployment and kubectl edit deployment.

D.With kubectl scale deployment exclusively.

Answer: C

Question: 87 CertyIQ

Which is an industry-standard container runtime with an "emphasis" on simplicity, robustness, and portability?

A.cri-o

B.lxd

C.containerd

D.kata-runtime

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Question: 88 CertyIQ

What does vertical scaling an application deployment describe best?

- A.The act of adding/removing applications to meet demand.
- B.The act of adding/removing node instances to the cluster to meet demand.
- C.The act of adding/removing resources to applications to meet demand.
- D.The act of adding/removing application instances of the same application to meet demand.

Answer: C

Question: 89 CertylQ

What is Serverless computing?

- A.A computing method of providing backend services on an as-used basis.
- B.A computing method of providing services for AI and ML operating systems.
- C.A computing method of providing services for quantum computing operating systems.
- D.A computing method of providing services for cloud computing operating systems.

Answer: A

Question: 90 CertyIQ

What is the purpose of the CRI?

- A.To provide runtime integration control when multiple runtimes are used.
- B. Support container replication and scaling on nodes.
- C.Provide an interface allowing Kubernetes to support pluggable container runtimes.
- D.Allow the definition of dynamic resource criteria across containers.

Answer: C

Question: 91 CertyIQ

In CNCF, who develops specifications for industry standards around container formats and runtimes?

- A.Open Container Initiative (OCI)
- B.Linux Foundation Certification Group (LFCG)
- C.Container Network Interface (CNI)
- D.Container Runtime Interface (CRI)

Answer: A

Question: 92
Which of the following options includes valid API versions?

A.alpha1v1, beta3v3, v2

B.alpha1, beta3, v2 C.v1alpha1, v2beta3, v2 D.v1alpha1, v2beta3, 2.0

Answer: C

Question: 93 CertyIQ

Which of the following will view the snapshot of previously terminated ruby container logs from Pod web-1?

A.kubectl logs -p -c ruby web-1

B.kubectl logs -c ruby web-1

C.kubectl logs -p ruby web-1

D.kubectl logs -p -c web-1 ruby

Answer: A

Question: 94 CertylQ

A Kubernetes ____ is an abstraction that defines a logical set of Pods and a policy by which to access them.

A.Selector

B.Controller

C.Service

D.Job

Answer: C

Question: 95 CertyIQ

How many hosts are required to set up a highly available Kubernetes cluster when using an external etcd topology?

A.Four hosts. Two for control plane nodes and two for etcd nodes.

B.Four hosts. One for a control plane node and three for etcd nodes.

C.Three hosts. The control plane nodes and etcd nodes share the same host.

D.Six hosts. Three for control plane nodes and three for etcd nodes.

Answer: D

Question: 96 CertylQ

Which of these events will cause the kube-scheduler to assign a Pod to a node?	
A.When the Pod crashes because of an error.	
B.When a new node is added to the Kubernetes cluster.	
C.When the CPU load on the node becomes too high.	
D.When a new Pod is created and has no assigned node.	
Answer: D	
Question: 97	CertyIQ
Which resource do you use to attach a volume in a Pod?	
A.StorageVolume	
B.PersistentVolume	
C.StorageClass	
D.PersistentVolumeClaim	
Answer: D	
Question: 98 Which key-value store is used to persist Kubernetes cluster data?	CertyIQ
A.etcd	
B.ZooKeeper	
C.ControlPlaneStore D.Redis	
Answer: A	
Question: 99	CertyIQ
What Linux namespace is shared by default by containers running within a Kubernetes Pod?	Jordin
What Linux hamespace is shared by default by containers furning within a Nubernetes Four	
A.Host Network	
B.Network	
C.Process ID	
D.Process Name	
Answer: B	
Question: 100	CertyIQ
What is a Dockerfile?	
A.A bash script that is used to automatically build a docker image.	

- B.A config file that defines which image registry a container should be pushed to.
- C.A text file that contains all the commands a user could call on the command line to assemble an image.
- D.An image layer created by a running container stored on the host.

Answer: C

Question: 101 CertyIQ

What does the "nodeSelector" within a PodSpec use to place Pods on the target nodes?

A.Annotations

B.IP Addresses

C.Hostnames

D.Labels

Answer: D

Question: 102 CertyIQ

What do Deployments and StatefulSets have in common?

- A.They manage Pods that are based on an identical container spec.
- B.They support the OnDelete update strategy.
- C.They support an ordered, graceful deployment and scaling.
- D.They maintain a sticky identity for each of their Pods.

Answer: A

Question: 103 CertyIQ

What is the practice of bringing financial accountability to the variable spend model of cloud resources?

A.FaaS

B.DevOps

C.CloudCost

D.FinOps

Answer: D

Question: 104 CertylQ

What is a best practice to minimize the container image size?

A.Use a DockerFile.

B.Use multistage builds.

C.Build images with different tags.

Answer: B

Question: 105 CertyIQ

Which tools enable Kubernetes HorizontalPodAutoscalers to use custom, application-generated metrics to trigger scaling events?

- A.Prometheus and the prometheus-adapter.
- B.Graylog and graylog-autoscaler metrics.
- C.Graylog and the kubernetes-adapter.
- D.Grafana and Prometheus.

Answer: A

Question: 106 CertylQ

Which of the following is a valid PromQL query?

A.SELECT * from http_requests_total WHERE job=apiserver

B.http_requests_total WHERE (job="apiserver")

C.SELECT * from http_requests_total

D.http_requests_total(job="apiserver")

Answer: D

Question: 107 CertyIQ

Which of the following best describes horizontally scaling an application deployment?

- A.The act of adding/removing node instances to the cluster to meet demand.
- B.The act of adding/removing applications to meet demand.
- C.The act of adding/removing application instances of the same application to meet demand.
- D.The act of adding/removing resources to application instances to meet demand.

Answer: C

Question: 108 CertyIQ

How many different Kubernetes service types can you define?

A.2

B.3

C.4

D.5

Answer: C

Question: 109 CertyIQ

What is the difference between a Deployment and a ReplicaSet?

- A. With a Deployment, you can't control the number of pod replicas.
- B.A ReplicaSet does not guarantee a stable set of replica pods running.
- C.A Deployment is basically the same as a ReplicaSet with annotations.
- D.A Deployment is a higher-level concept that manages ReplicaSets.

Answer: D

Question: 110 CertyIQ

The Container Runtime Interface (CRI) defines the protocol for the communication between:

- A.The kubelet and the container runtime.
- B.The container runtime and etcd.
- C.The kube-apiserver and the kubelet.
- D.The container runtime and the image registry.

Answer: A

Question: 111 CertyIQ

Which authorization-mode allows granular control over the operations that different entities can perform on different objects in a Kubernetes cluster?

- A.Webhook Mode Authorization Control
- **B.Role Based Access Control**
- C.Node Authorization Access Control
- **D.Attribute Based Access Control**

Answer: B

Question: 112 CertyIQ

Which of the following is a correct definition of a Helm chart?

A.A Helm chart is a collection of YAML files bundled in a tar.gz file and can be applied without decompressing it.

B.A Helm chart is a collection of JSON files and contains all the resource definitions to run an application on Kubernetes.

C.A Helm chart is a collection of YAML files that can be applied on Kubernetes by using the kubectl tool.

D.A Helm chart is similar to a package and contains all the resource definitions to run an application on Kubernetes.

Question: 113 CertyIQ

Which of the following sentences is true about namespaces in Kubernetes?

- A. You can create a namespace within another namespace in Kubernetes.
- B. You can create two resources of the same kind and name in a namespace.
- C.The default namespace exists when a new cluster is created.
- D.All the objects in the cluster are namespaced by default.

Answer: C

Question: 114 CertyIQ

How does Horizontal Pod autoscaling work in Kubernetes?

A.The Horizontal Pod Autoscaler controller adds more CPU or memory to the pods when the load is above the configured threshold, and reduces CPU or memory when the load is below.

B.The Horizontal Pod Autoscaler controller adds more pods when the load is above the configured threshold, but does not reduce the number of pods when the load is below.

C.The Horizontal Pod Autoscaler controller adds more pods to the specified DaemonSet when the load is above the configured threshold, and reduces the number of pods when the load is below.

D.The Horizontal Pod Autoscaler controller adds more pods when the load is above the configured threshold, and reduces the number of pods when the load is below.

Answer: D

Question: 115 CertyIQ

What is a Pod?

A.A networked application within Kubernetes.

- B.A storage volume within Kubernetes.
- C.A single container within Kubernetes.
- D.A group of one or more containers within Kubernetes.

Answer: D

Question: 116 CertyIQ

What element allows Kubernetes to run Pods across the fleet of nodes?

- A.The node server.
- B.The etcd static pods.
- C.The API server.
- D.The kubelet.

Question: 117	CertyIQ
What is the Kubernetes object used for running a recurring workload?	
A.Job	
B.Batch	
C.DaemonSet	
D.CronJob	
Answer: D	

In the DevOps framework and culture, who builds, automates, and offers continuous delivery tools for developer teams?

A.Application Users

B.Application Developers

C.Platform Engineers

D.Cluster Operators

Answer: C

Question: 119 CertyIQ

Which kubectl command is useful for collecting information about any type of resource that is active in a Kubernetes cluster?

A.describe

B.list

C.expose

D.explain

Answer: A

Question: 120 CertyIQ

The cloud native architecture centered around microservices provides a strong system that ensures

A.fallback

B.resiliency

C.failover

D.high reachability

Answer: B

Question: 121 CertyIQ

Which of the following is the correct command to run a nginx deployment with 2 replicas?

A.kubectl run deploy nginx --image=nginx --replicas=2

B.kubectl create deploy nginx --image=nginx --replicas=2

C.kubectl create nginx deployment --image=nginx -replicas=2

D.kubectl create deploy nginx --image=nginx --count=2

Answer: B

Question: 122 CertyIQ

What does "Continuous Integration" mean?

- A.The continuous integration and testing of code changes from multiple sources manually.
- B.The continuous integration and testing of code changes from multiple sources via automation.
- C.The continuous integration of changes from one environment to another.
- D.The continuous integration of new tools to support developers in a project.

Answer: B

Question: 123 CertyIQ

Which of the following options is true about considerations for large Kubernetes clusters?

- A.Kubernetes supports up to 1000 nodes and recommends no more than 1000 containers per node.
- B.Kubernetes supports up to 5000 nodes and recommends no more than 500 pods per node.
- C.Kubernetes supports up to 5000 nodes and recommends no more than 110 pods per node.
- D.Kubernetes supports up to 50 nodes and recommends no more than 1000 containers per node.

Answer: C

Question: 124 CertyIQ

Which component of the node is responsible to run workloads?

- A.The kubelet.
- B.The kubeproxy.
- C.The kube-apiserver.
- D.The container runtime.

Answer: D

Question: 125 CertylQ

The IPv4/IPv6 dual stack in Kubernetes:

- A.Translates an IPv4 request from a service to an IPv6 service.
- B.Allows you to access the IPv4 address by using the IPv6 address.
- C.Requires NetworkPolicies to prevent services from mixing requests.
- D.Allows you to create IPv4 and IPv6 dual stack services.

Answer: D

Question: 126 CertyIQ

What does "continuous" mean in the context of CI/CD?

- A.Frequent releases, Manual processes, Repeatable, Fast processing
- B.Periodic releases, Manual processes, Repeatable, Automated Processing
- C.Frequent releases, Automated processes, Repeatable, Fast processing
- D.Periodic releases, Automated processes, Repeatable, Automated processing

Answer: C

Question: 127 CertyIQ

What is ephemeral storage?

- A.Storage space that need not persist across restarts.
- B.Storage that may grow dynamically.
- C.Storage used by multiple consumers (e.g. multiple Pods).
- D.Storage that is always provisioned locally

Answer: A

Question: 128 CertyIQ

What is the reference implementation of the OCI runtime specification?

A.lxc

B.cri-o

C.runc

D.docker

Answer: C

Question: 129 CertyIQ

What is a Service?

- A.A static network mapping from a Pod to a port.
- B.A way to expose an application running on a set of Pods.
- C.The network configuration for a group of Pods.
- D.An NGINX load balancer that gets deployed for an application.

Answer: B

Question: 130 CertyIQ

What's the difference between a security profile and a security context?

A.Security Contexts configure Clusters and Namespaces at runtime. Security profiles are control plane mechanisms to enforce specific settings in the Security Context.

B.Security Contexts configure Pods and Containers at runtime. Security profiles are control plane mechanisms to enforce specific settings in the Security Context.

C.Security Profiles configure Pods and Containers at runtime. Security Contexts are control plane mechanisms to enforce specific settings in the Security Profile.

D.Security Profiles configure Clusters and Namespaces at runtime. Security Contexts are control plane mechanisms to enforce specific settings in the Security Profile.

Answer: B

Question: 131 CertyIQ

At which layer would distributed tracing be implemented in a cloud native deployment?

A.Network

B.Application

C.Database

D.Infrastructure

Answer: B

Question: 132 CertyIQ

What framework does Kubernetes use to authenticate users with JSON Web Tokens?

A.OpenID Connect

B.OpenID Container

C.OpenID Cluster

D.OpenID CNCF

Answer: A

Question: 133 CertylQ

Which of the following is a feature Kubernetes provides by default as a container orchestration tool?

- A.A portable operating system.
- B.File system redundancy.
- C.A container image registry.
- D.Automated rollouts and rollbacks.

Answer: D

Question: 134 CertyIQ

Which of the following sentences is true about container runtimes in Kubernetes?

- A.If you let iptables see bridged traffic, you don't need a container runtime.
- B.If you enable IPv4 forwarding, you don't need a container runtime.
- C.Container runtimes are deprecated, you must install CRI on each node
- D. You must install a container runtime on each node to run pods on it.

Answer: D

Question: 135 CertylQ

If a Pod was waiting for container images to download on the scheduled node, what state would it be in?

- A.Failed
- **B.Succeeded**
- C.Unknown
- **D.Pending**

Answer: D

Question: 136 CertylQ

Which of the following scenarios would benefit the most from a service mesh architecture?

- A.A few applications with hundreds of pod replicas running in multiple clusters, each one providing multiple services.
- B.Thousands of distributed applications running in a single cluster, each one providing multiple services.
- C.Tens of distributed applications running in multiple clusters, each one providing multiple services.
- D.Thousands of distributed applications running in multiple clusters, each one providing multiple services.

Answer: D

Question: 137 CertyIQ

Which one of the following is an open source runtime security tool?

A.lxd

B.containerd

Answer: C	
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Which of these is a valid container restart policy?

A.On login

B.On update

C.On start

D.On failure

Answer: D

Thank you

Thank you for being so interested in the premium exam material. I'm glad to hear that you found it informative and helpful.

If you have any feedback or thoughts on the bumps, I would love to hear them. Your insights can help me improve our writing and better understand our readers.

Best of Luck

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