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## **Linux-Foundation**

# **KCNA**

Kubernetes and Cloud Native Associate (KCNA)









## Question: 30

Which project in this list is a leading project in the observability space?

- A. Jaeger
- B. Vitess
- C. Argo
- D. Kubernetes

**Answer:** A

Explanation:

https://github.com/cncf/landscape#trail-map



# CLOUD NATIVE TRAIL MAP

The Cloud Native Landscape Lengting has a large number of options. This Cloud Native Trait Map is a recommended process for leveraging open source, cloud native technologies. At each step, you can choose a vendor-supported offering or do it yourself, and everything after step #3 is optional based on your circumstances.

#### HELP ALONG THE WAY

#### A. Training and Certification

Consider training offerings from CNCF and then take the exam to become a Certified Kubernetes Administrator or a Certified Kubernetes Application Developer Cncf. to Atraining

### B. Consulting Help

If you want assistance with Kubernetes and the surrounding ecosystem, consider leveraging a Kubernetes Certified Scrylog Provider

cricLio/kcsp

## C. Join CNCF's End User Community

For companies that don't offer cloud native services externally cnctio/enduser

#### WHAT IS CLOUD NATIVE?

Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

These techniques enable loosely coupled systems that are resilient, manageable, and observable. Combined with robust automation, they allow engineers to make high-impact changes frequently and predictably with minimal toil.

The Cloud Native Computing Foundation sceks to drive adoption of this paradigm by fostering and sustaining an ecosystem of open source, vendor-neutral projects. We democratize state-of-the-art patterns to make these innovations accessible for everyone.

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Question: 31

What is scheduling in Kubernetes

- A. Determining when to execute a cron-job
- B. Assigning pods to nodes
- C. Joining a new nodes to the clusters
- D. Setting a time for automated tasks

**Answer:** B

### Explanation:

https://kubernetes.io/docs/concepts/scheduling-eviction/

# Scheduling

- Kubernetes Scheduler
- Assigning Pods to Nodes
- Pod Overhead
- Taints and Tolerations
- Scheduling Framework
- Scheduler Performance Tuning
- Resource Bin Packing for Extended Resources

Graphical user interface, application

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Question: 32

Which of the following are characteristics of Statefulsets?

- A. Ordered, graceful deployment and scaling
- B. Creates replica sets
- C. Uses headless services

**Answer:** A

Explanation:

https://kubernetes.io/docs/concepts/workloads/controllers/statefulset/

# Using StatefulSets

StatefulSets are valuable for applications that require one or more of the following.

- Stable, unique network identifiers.
- · Stable, persistent storage.
- · Ordered, graceful deployment and scaling.
- · Ordered, automated rolling updates.

Graphical user interface, text, application, email

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Question: 33

Which control plane component is responsible for scheduling pods?

- A. kube-proxy
- B. kube scheduler
- C. kubelet
- D. kube api-server

**Answer:** B

Explanation:

https://kubernetes.io/docs/concepts/overview/components/

### kube-scheduler

Control plane component that watches for newly created Pods with no assigned node, and selects a node for them to run on.

Factors taken into account for scheduling decisions include: individual and collective resource requirements, hardware/software/policy constraints, affinity and anti-affinity specifications, data locality, inter-workload interference, and deadlines.

Graphical user interface, text, application

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Question: 34

What is a benefits of Kubernetes federation?

- A. Avoids scalability limits on pods and nodes
- B. Creates highly available clusters in different regions

## C. Low latency

Answer: A,B,C
Question: 35
Which prometheus metric type represents a single number value that can increase and decrease over time?  A. Gauge B. Histogram C. Summary D. Counter
Answer: A
Explanation:
https://prometheus.io/docs/concepts/metric_types/#gauge
Gauge %
A gauge is a metric that represents a single numerical value that can arbitrarily go up and down.
Gauges are typically used for measured values like temperatures or current memory usage, but also "counts" that can go up and down, like the number of concurrent requests.
Graphical user interface, text
Description automatically generated
Question: 36
What is OPA? A. Open Permission Agent B. Online Policy Audit C. Open Policy Agent D. Offline Policy Accessor
Answer: C
Explanation:
https://www.cncf.io/projects/open-policy-agent-opa/

PROJECTS

# **Open Policy Agent (OPA)**



# An open source, general-purpose policy engine.

Open Policy Agent (OPA) was accepted to CNCF on March 29, 2018 and is at the Graduated project maturity level.

Graphical user interface, text, application, email

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Question: 37

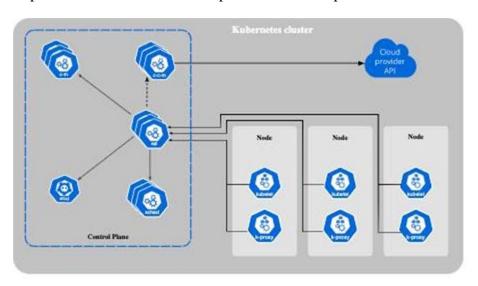
Which of the following is not the part of Kubernetes Control Plane?

- A. kube scheduler
- B. etcd (pronounce: esty-d)
- C. kube api-server
- D. kube-proxy

**Answer:** D

Explanation:

https://kubernetes.io/docs/concepts/overview/components/





Graphical user interface, diagram, application

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Question: 38

Which access control component of Kubernetes is responsible for authorization and decides what requestor is allowed to do?

- A. Service Account
- B. Role-based access control 'RBAC'
- C. Deployment

**Answer:** B

Explanation:

https://kubernetes.io/docs/reference/access-authn-authz/authorization/

## **Authorization Modes**

The Kubernetes API server may authorize a request using one of several authorization modes:

- Node A special-purpose authorization mode that grants permissions to kubelets based on the pods they are scheduled to run. To learn more about using the Node authorization mode, see Node Authorization.
- ABAC Attribute-based access control (ABAC) defines an access control
  paradigm whereby access rights are granted to users through the use
  of policies which combine attributes together. The policies can use any
  type of attributes (user attributes, resource attributes, object,
  environment attributes, etc). To learn more about using the ABAC mode,
  see ABAC Mode.
- RBAC Role-based access control (RBAC) is a method of regulating access
  to computer or network resources based on the roles of individual users
  within an enterprise. In this context, access is the ability of an individual
  user to perform a specific task, such as view, create, or modify a file. To
  learn more about using the RBAC mode, see RBAC Mode
  - When specified RBAC (Role-Based Access Control) uses the rbac.authorization.k8s.io API group to drive authorization decisions, allowing admins to dynamically configure permission policies through the Kubernetes API.
  - To enable RBAC, start the apiserver with --authorizationmode=RBAC.

Text. letter

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Question: 39

Which role is responsible of creating service level indicator 'SLI', service level objective 'SLO', & Service Level Agreements 'SLA'

- A. Site reliability engineer 'SRE'
- B. DevOps
- C. GitOps
- D. Security and compliance engineer
- E. Developer

**Answer:** A

Explanation:

https://www.atlassian.com/incident-management/kpis/sla-vs-slo-vs-sli

## How does this impact SREs?

For those of you following Google's model and using <u>Site Reliability</u> <u>Engineering (SRE) teams</u> to bridge the gap between development and operations, SLAs, SLOs, and SLIs are foundational to success. SLAs help teams set boundaries and error budgets. SLOs help prioritize work. And SLIs tell SREs when they need to freeze all launches to save an endangered error budget—and when they can loosen up the reins.

Text

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Question: 40

Which is NOT a use case for the Kubernetes dashboard?

- A. Troubleshooting any issues with applications
- B. Managing running applications
- C. Installing new Kubernetes cluster
- D. Managing the entire Kubernetes cluster

**Answer: C** 



# **SAMPLE QUESTIONS**

These questions are for demo purpose only. **Full version** is up to date and contains actual questions and answers.

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