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Question: 562

What is not semantic versioning?
A. 1.0.0
B. 2022-05-04
C. 1.0.0-alpha
D. 1.0.0-beta.2

Answer: B

Explanation:

https://semver.org/RegEx SemVer at https://regex101.com/r/vkijKf/1/

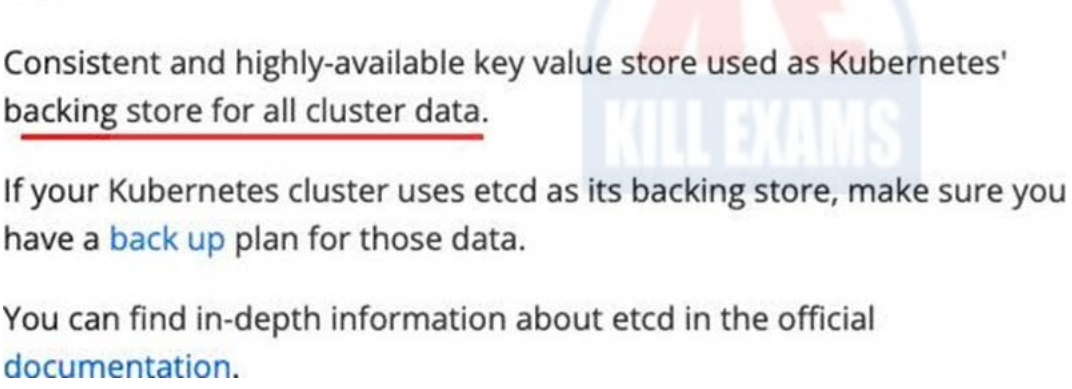
Question: 563

In Kubernetes, what is considered the primary cluster data source?
A. etcd (pronounce: esty-d)
B. api server
C. kubelet
D. scheduler

Answer: A

Explanation:

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



Graphical user interface, text, application, email

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Question: 564

What are the two goals of Cloud-Native?
A. Rapid innovation and automation
B. Slow innovation and stable applications

C. Frequent deployments and well-defined organizational silos
D. Rapid innovation and reliability

Answer: D

Explanation:

https://www.redhat.com/en/topics/cloud-native-apps

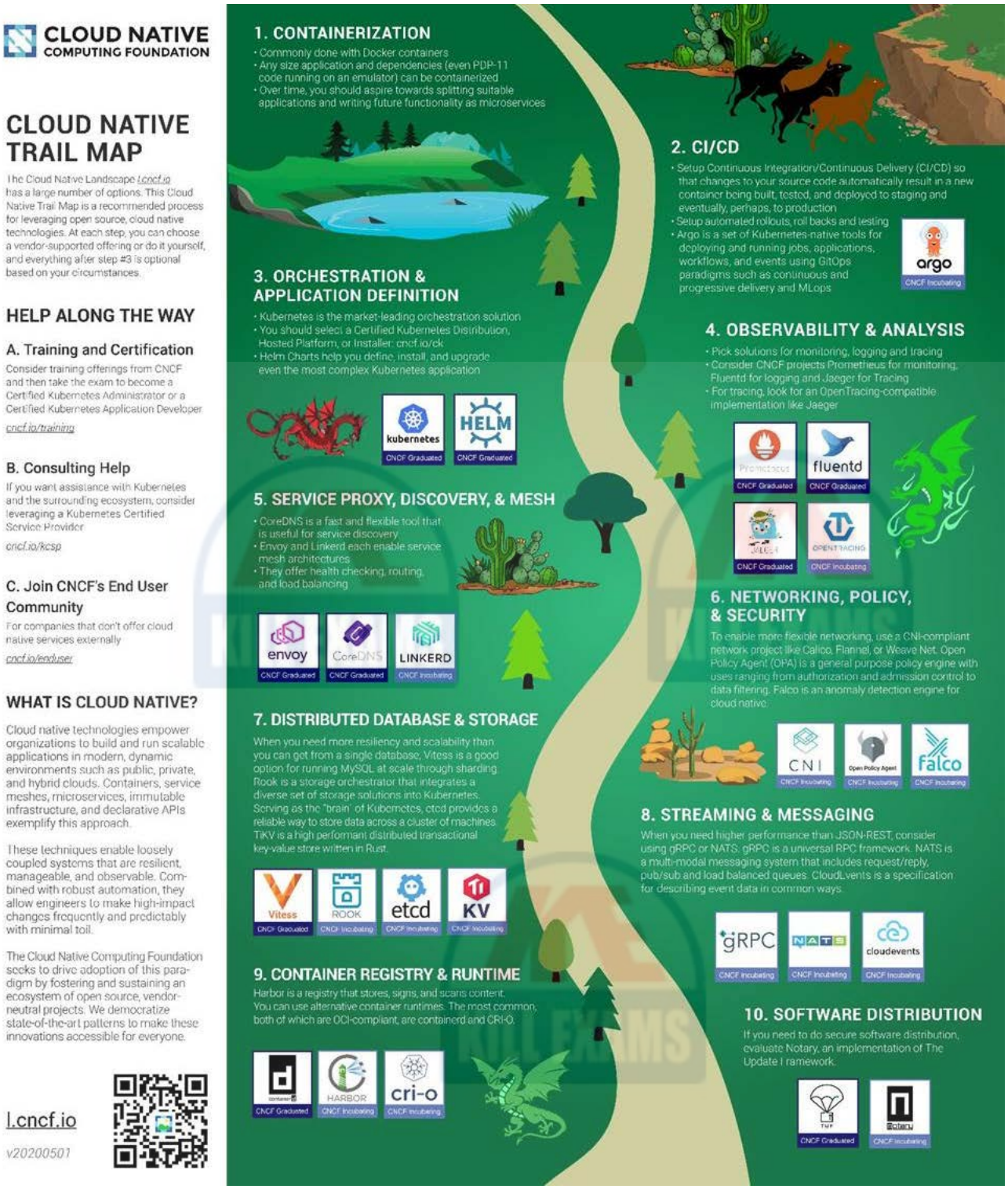
Question: 565

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



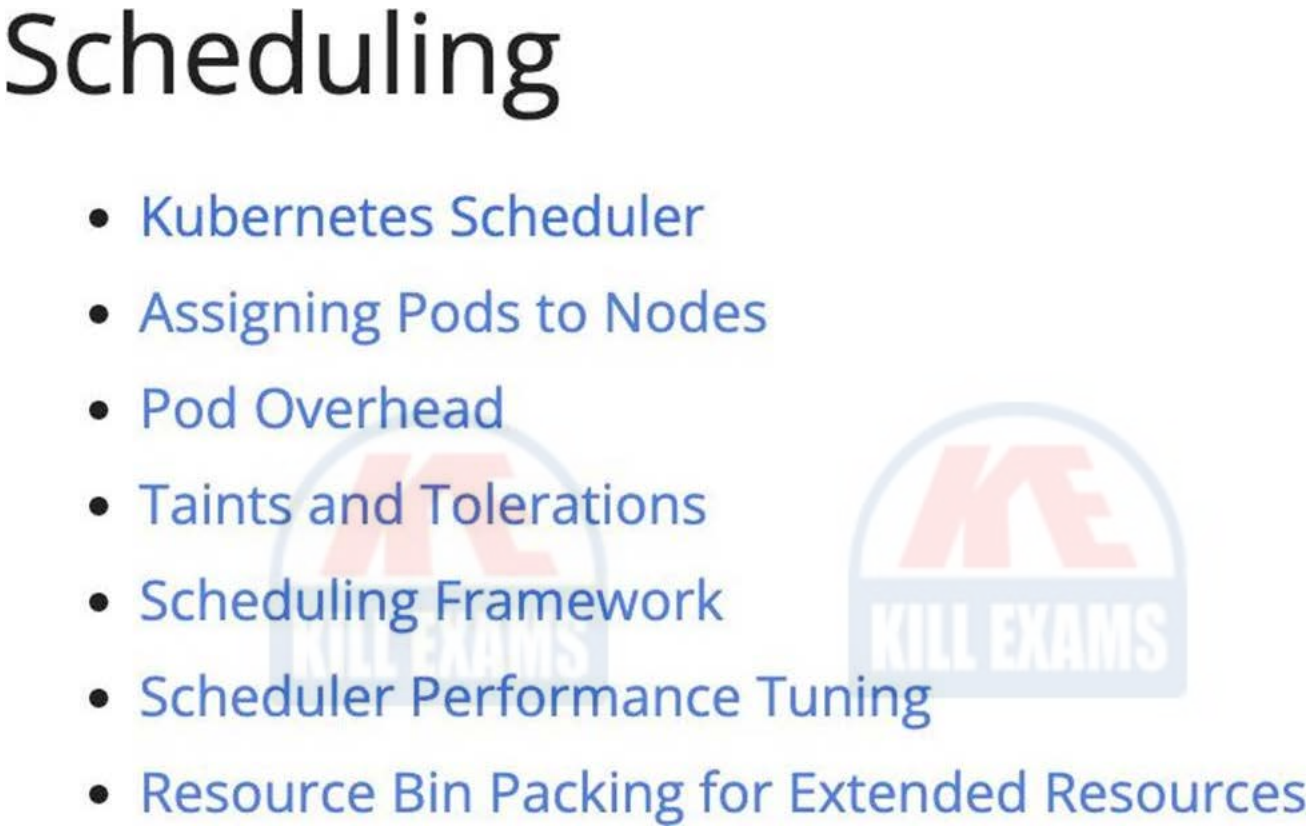
Question: 566

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/



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Question: 567

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: 568

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: 569

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

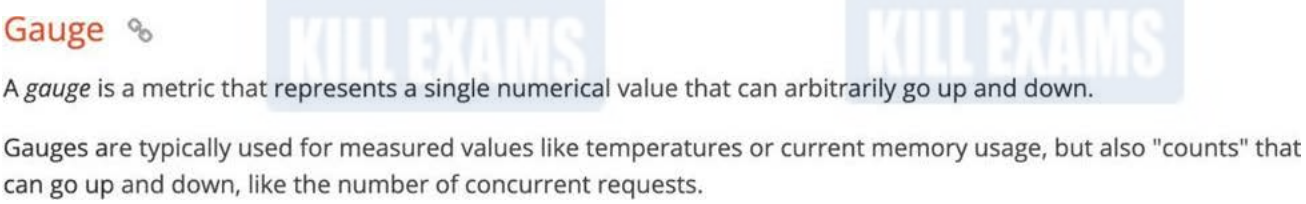
Question: 570

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



Graphical user interface, text

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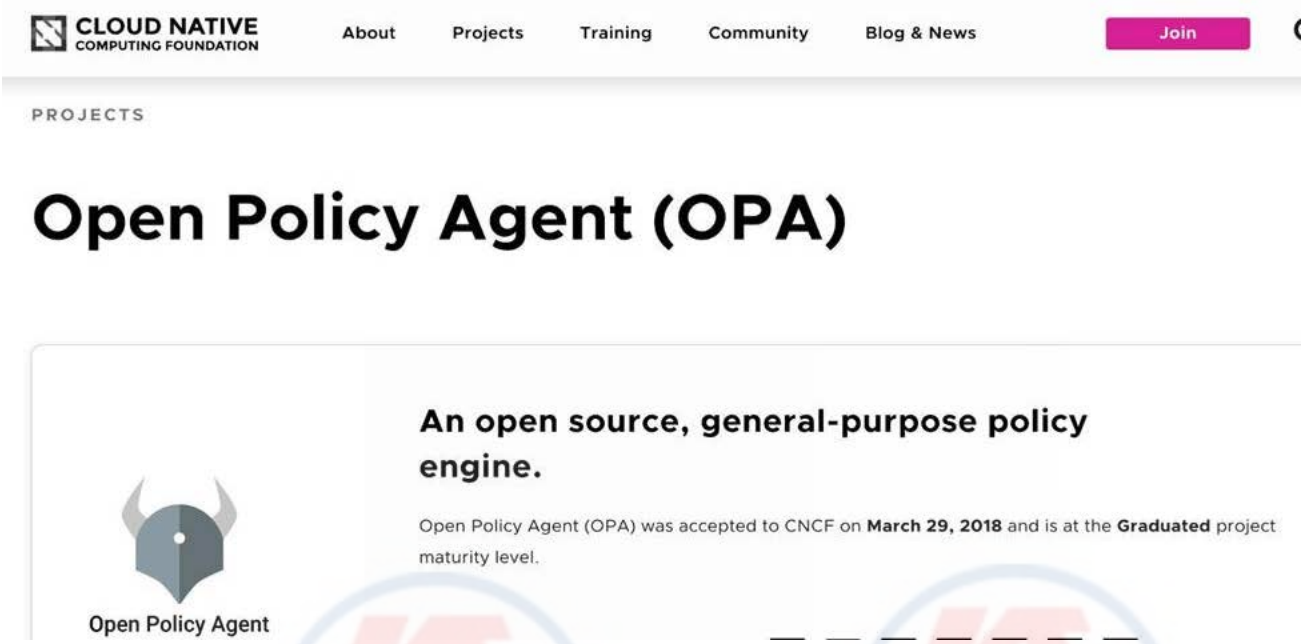
Question: 571

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/



Graphical user interface, text, application, email

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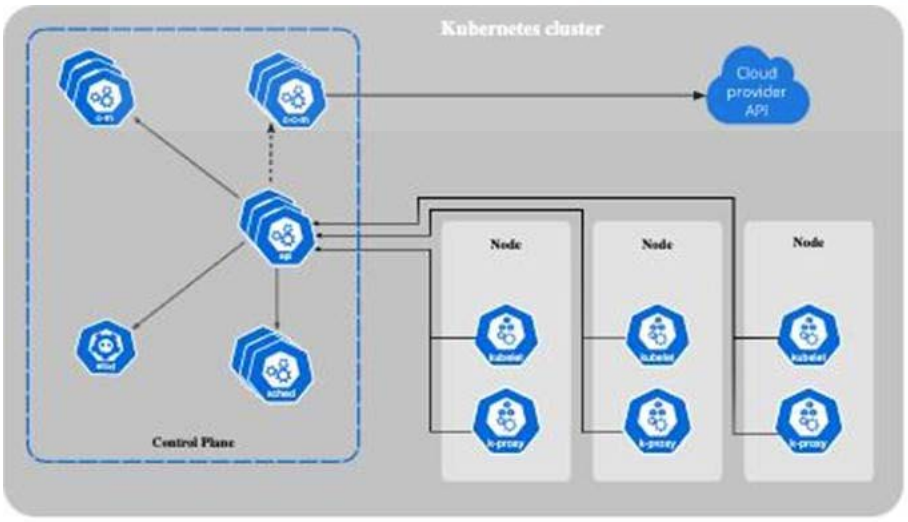
Question: 572

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: 573

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 `--authorization-mode=RBAC`.

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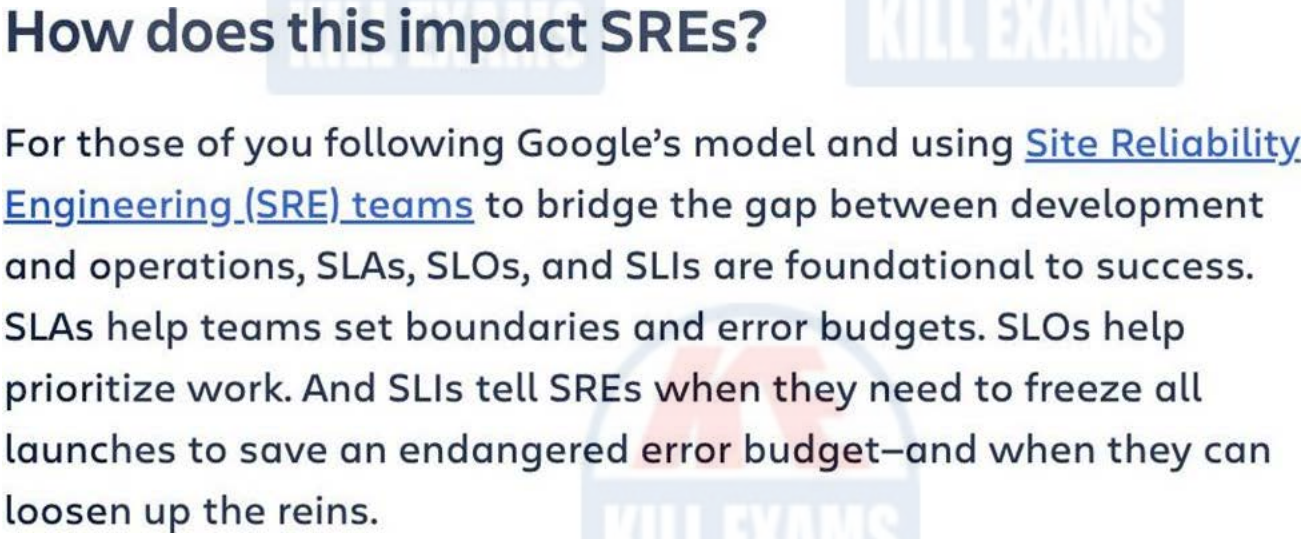
Question: 574

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



Text

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Question: 575

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

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