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Question 1

Question Type: MultipleChoice

What are the two goals of Cloud-Native?

Options:

- 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 2

Question Type: MultipleChoice

What is the name for a service that has no clusterIp address?

Options:

- A- Headless
- B- NodePort
- C- ClusterIP
- D- LoadBalancer

Answer:

A

Explanation:

<https://kubernetes.io/docs/concepts/services-networking/service/#headless-services>

Headless Services

Sometimes you don't need load-balancing and a single Service IP. In these cases, you can create what are termed "headless" Services, by explicitly specifying `None` for the cluster IP (`.spec.clusterIP`).

You can use a headless Service to interface with other service discovery mechanisms, without being tied to Kubernetes' implementation.

For headless Services, a cluster IP is not allocated, kube-proxy does not handle these Services, and there is no load balancing or proxying done by the platform for them. How DNS is automatically configured depends on the Service has selectors defined:

Question 3

Question Type: MultipleChoice

Which prometheus metric type represents a single number value that can increase and decrease over time?

Options:

A- Gauge

B- Histogram

C- Summary

D- Counter

Answer:

A

Explanation:

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. Values can go up and down, like the number of concurrent requests.

Question 4

Question Type: MultipleChoice

What command use to get documentation about kubernetes resource type

Options:

A- alias k='kubectl'

k api-resources

B- alias k='kubectl'

k api-list

C- alias k='kubectl'

k explain

D- alias k='kubectl'

k get resource

Answer:

C

Explanation:

<https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#explain>

explain

List the fields for supported resources.

This command describes the fields associated with each supported API resource. Fields are identified via a simple JSONPath identifier:

```
<type>.<fieldName>[.<fieldName>]
```

Add the `--recursive` flag to display all of the fields at once without descriptions. Information about each field is retrieved from the server in OpenAPI format.

Use "kubect`l` api-resources" for a complete list of supported resources.

Get the document

```
kubectl explain
```

Get the document

```
kubectl explain
```

Usage

Question 5

Question Type: MultipleChoice

What makes cloud native technology so important?

Options:

- A- It makes data centric
- B- It strengthens team
- C- It removes roadblocks to innovation
- D- It helps gather software requirements
- E- It makes operational centric

Answer:

C

Explanation:

<https://github.com/cncf/foundation/blob/main/charter.md>

Cloud native technologies empower organizations to build and run scalable applications in modern public, private, and hybrid clouds. Containers, service meshes, microservices, immutable infrastructure, and serverless architectures exemplify this approach.

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

Question 6

Question Type: MultipleChoice

Which of the following components is part of the Kubernetes control panel

Options:

A- kubectl

B- kube-proxy

C- Service Mesh

D- kubelet

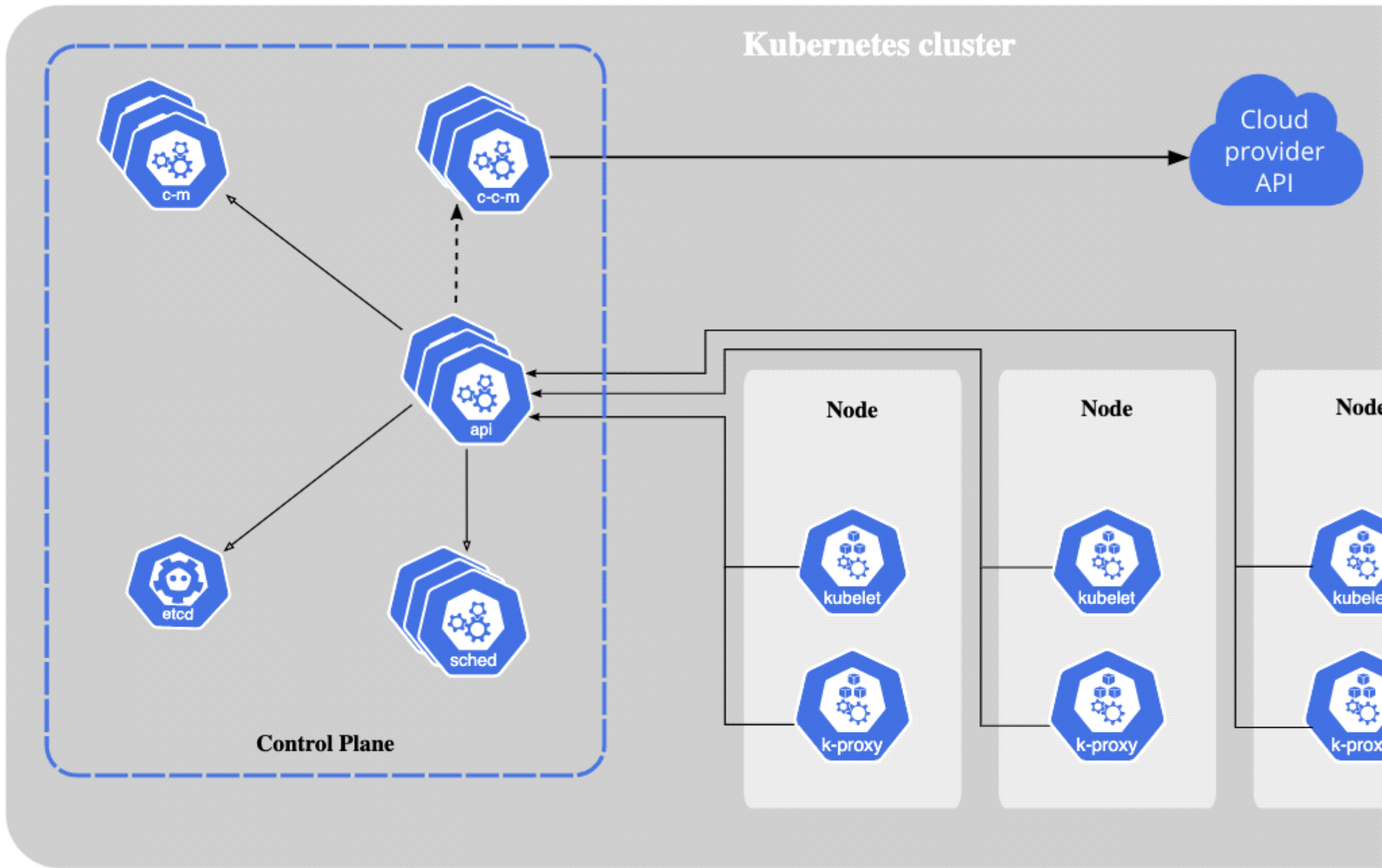
E- Cloud control manager

Answer:

E

Explanation:

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



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