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EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 30 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 30

Topic #: 1

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You are creating a Google Kubernetes Engine (GKE) cluster with a cluster autoscaler feature enabled. You need to make sure that each node of the cluster will run a monitoring pod that sends container metrics to a third-party monitoring solution. What should you do?

- A. Deploy the monitoring pod in a StatefulSet object.
- B. Deploy the monitoring pod in a DaemonSet object.
- C. Reference the monitoring pod in a Deployment object.
- D. Reference the monitoring pod in a cluster initializer at the GKE cluster creation time.

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by [Agents89](#) at April 15, 2020, 10:04 p.m.

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JackGlemins [Highly Voted](#) 3 years, 7 months ago

B is right: <https://kubernetes.io/docs/concepts/workloads/controllers/daemonset/>
Some typical uses of a DaemonSet are:

running a cluster storage daemon on every node
running a logs collection daemon on every node
running a node monitoring daemon on every node

upvoted 45 times

Agents89 Highly Voted 4 years, 6 months ago

B is correct

upvoted 25 times

ACEqa Most Recent 1 month, 3 weeks ago

The correct answer is B

upvoted 1 times

JB28 10 months, 1 week ago

Option B

upvoted 1 times

YourCloudGuru 1 year ago

Selected Answer: B

The correct answer is B

DaemonSets ensure that one running instance of the pod is scheduled on every node in the cluster. This means that even if the cluster autoscaler scales the cluster up or down, the monitoring pod will continue to run on each node.

The other options are not as good:

A This is not necessary for the monitoring pod, and it can make it more difficult to scale the cluster

C This is not necessary for the monitoring pod, and it can make it more difficult to scale the cluster

D This is not the best way to deploy the monitoring pod, because it makes it difficult to update the monitoring pod and it does not ensure that the monitoring pod is running on every node in the cluster.

<https://kubernetes.io/docs/concepts/workloads/controllers/daemonset/>

upvoted 5 times

Captain1212 1 year, 1 month ago

B seems more correcent

upvoted 1 times

senatori 1 year, 7 months ago

Selected Answer: B

daemonset- makes sure that a fixed number of pods is running in every moment in every node of the cluster

upvoted 4 times

Buruguduystunstugudunstuy 1 year, 8 months ago

Selected Answer: B

Answer B, Deploy the monitoring pod in a DaemonSet object, is the correct answer.

A DaemonSet ensures that all (or some) nodes in a cluster run a copy of a specific Pod. By deploying the monitoring pod in a DaemonSet object, a copy of the pod will run on each node of the cluster. This ensures that the metrics for all containers running on each node will be sent to the third-party monitoring solution.

A. StatefulSet is used for stateful applications that require unique network identifiers, stable storage, and ordered deployment and scaling.

C. A Deployment object is used to manage a set of replica Pods in a declarative way.

D. Cluster initializers are deprecated and no longer recommended for use in Kubernetes.

upvoted 13 times

leogor 1 year, 12 months ago

B DaemonSet

upvoted 1 times

AzureDP900 2 years, 4 months ago

B is correct

upvoted 1 times

pfabio 2 years, 4 months ago

Selected Answer: B

DaemonSets attempt to adhere to a one-Pod-per-node model, either across the entire cluster or a subset of nodes. As you add nodes to a node pool, DaemonSets automatically add Pods to the new nodes as needed.

   upvoted 7 times

  **haroldbenites** 2 years, 5 months ago
go for B

   upvoted 1 times

  **haroldbenites** 2 years, 5 months ago
Go for B

   upvoted 1 times

  **adityachowta** 2 years, 5 months ago

Selected Answer: B

B is correct

   upvoted 1 times

  **obeythefist** 2 years, 7 months ago

"Every Node" is the keyword here, which is what DaemonSet is used for

   upvoted 2 times

  **ionutr** 2 years, 8 months ago

Selected Answer: B

B 2000%

   upvoted 1 times

  **Skyerh** 2 years, 10 months ago

Selected Answer: B

I will vote B

   upvoted 3 times

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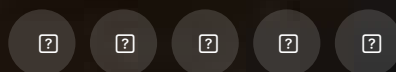
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