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## Exam Associate Cloud Engineer All Questions

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### EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 94 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 94

Topic #: 1

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You create a Deployment with 2 replicas in a Google Kubernetes Engine cluster that has a single preemptible node pool. After a few minutes, you use `kubectl` to examine the status of your Pod and observe that one of them is still in Pending status:

```
$ kubectl get pods -l app=myapp
NAME                                READY   STATUS    RESTART  AGE
myapp-deployment-58ddbbb995-lp86m  0/1     Pending   0        9m
myapp-deployment-58ddbbb995-qjpkg  1/1     Running   0        9m
```

What is the most likely cause?

- A. The pending Pod's resource requests are too large to fit on a single node of the cluster.
- B. Too many Pods are already running in the cluster, and there are not enough resources left to schedule the pending Pod.
- C. The node pool is configured with a service account that does not have permission to pull the container image used by the pending Pod.
- D. The pending Pod was originally scheduled on a node that has been preempted between the creation of the Deployment and your verification of the Pods' status. It is currently being rescheduled on a new node.

Show Suggested Answer

by [torres\\_xyz](#) at June 11, 2020, 2:30 p.m.

## Comments

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  **ESP\_SAP**  4 years, 2 months ago

Correct Answer is (B):

Reasons for a Pod Status Pending:

Troubleshooting Reason #1: Not enough CPU

Troubleshooting Reason #2: Not enough memory

Troubleshooting Reason #3: Not enough CPU and memory

<https://managedkubernetes.com/k8sbot/troubleshooting/pending/pod/2019/02/22/pending-pod.html>

   upvoted 55 times

  **SSPC** 4 years, 2 months ago

I agree with you. The correct answer is B

   upvoted 5 times

  **[Removed]** 4 years, 1 month ago

D gives you the reason why the resource could not be available as it was preempted

   upvoted 3 times

  **tavva\_prudhvi** 3 years, 6 months ago

If it was preempted, then it has to be restarted right? then it will show its failing not pending, check the articles mentioned by ESP\_SAP

   upvoted 3 times

  **ashtonez** 1 year, 7 months ago

No, it will show as pending initially while reallocating

   upvoted 1 times

  **Finger41** 3 years, 4 months ago

Its in a deployment, the pod will be recreated. There is insufficient resources in the node, not because its preemptible but because there is no memory/cpu.....

   upvoted 2 times

  **Linus11** 3 years, 6 months ago

The real crux of this question is the mention about "Pre-emptible Node pool". That needs to be taken into consideration while determining the answer. If we choose B, then the importance of "Pre-emptible node pool" is not there. Whether the node pool is pre-emptible or not, resource scarcity can lead to pending pods.

When we consider the mention of "Pre-emptible Node Pool", then the answer is obviously D. If a pre-emptible Node gets pre-empted, there will be a delay in the cluster to sync it.

Answer is D.

   upvoted 28 times



  **iooj** 1 month, 2 weeks ago

they just wanted to confuse us and added "preemptible", be strong

   upvoted 1 times

  **alexgrig** 3 years ago

Questions say "Single Node" at that case the second pod can't be in running state.

   upvoted 4 times

  **brvinod** 2 years, 8 months ago

A node can have multiple pods. So that is not a problem.

   upvoted 2 times

  **MidhunJose** 2 years, 9 months ago

It says a single node pool, not a single node. Meaning there can be multiple nodes, right?

   upvoted 9 times

  **brvinod** 2 years, 8 months ago

Pre-emptible would have been an issue if the cluster had more than one node. The question clearly states that it is a single node cluster. That means if that single VM was pre-empted, neither of the pods should have been running. Since one pod is running, that means that (the only) VM is running. So, the reason the second pod is still pending because the VM is not having enough resources to run both the pods. Hence B.

   upvoted 9 times

  mplibunao 2 years, 4 months ago

Actually the question stated "single preemptible node pool" and not "single node" so it's possible that there are multiple nodes and one of the node on which the pod was scheduled on was preempted



   upvoted 3 times

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  clouidenthu01 Highly Voted  4 years, 3 months ago

D is correct as the node on which pod was scheduled to run was preempted & now this pod is scheduled to run on different preemptible node from the node-pool

   upvoted 21 times

  myuniquename 3 years ago

Incorrect. There is a single preemptible instance, if it was preempted then both pods would show as 'Pending'. B is correct.

   upvoted 6 times

  ashtonez 1 year, 7 months ago

No, because one of the pods may run on another node that its still up




   upvoted 2 times

  obeythefist 2 years, 7 months ago

> There is a single preemptible instance


Where does it say that? It doesn't. Don't make things up. There's a single pre-emptible node pool. A single pool is not the same as a single node.

   upvoted 11 times

  denno22 Most Recent  3 weeks, 3 days ago

**Selected Answer: D**

The most likely cause is given in the question. We have a single preemptible node pool.

   upvoted 1 times

  iooj 1 month, 2 weeks ago

**Selected Answer: B**

100% - not enough CPU / memory.

   upvoted 1 times

  Timfdklfajlkdsjlakf 1 month, 3 weeks ago

**Selected Answer: D**

The correct answer is D.

   upvoted 1 times

  BuenaCloudDE 3 months, 1 week ago

**Selected Answer: D**

I think so because main word of the question is preemptible pool nodes it can initialize some latency during creating node to find compliance machine.

   upvoted 1 times

  tmwf 7 months, 3 weeks ago

**Selected Answer: B**

B is more correct. Maybe Troubleshooting Reason Not enough CPU or Memory or both of them.



   upvoted 1 times

  blackBeard33 7 months, 3 weeks ago

**Selected Answer: B**

I would go for B

   upvoted 1 times



  mounmou 8 months ago

**Selected Answer: D**

D good choice


   upvoted 1 times

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

  **jareiner** 8 months, 2 weeks ago

The term 'preemptible node pool' is in the question. D is the answer.

   upvoted 1 times



  **Cynthia2023** 9 months, 3 weeks ago

**Selected Answer: B**

I would go with B.

While D is possible, this scenario is less likely compared to the resource constraint issue, especially if the Pending status is observed consistently over a few minutes. Preemption would usually lead to a quicker rescheduling unless there are resource constraints.



   upvoted 1 times

  **yash\_1199** 9 months, 4 weeks ago

**Selected Answer: B**


B is correct

   upvoted 1 times

  **BAofBK** 11 months, 2 weeks ago

I go with B



   upvoted 1 times

  **wongwong** 11 months, 3 weeks ago

**Selected Answer: B**

answer is B

   upvoted 1 times

  **gsmasad** 11 months, 3 weeks ago

**Selected Answer: D**



When we consider the mention of "Pre-emptible Node Poll" , then the answer is obviously D.

   upvoted 2 times

  **abhiishere** 1 year ago

I will pick option D

   upvoted 1 times

  **Captain1212** 1 year, 1 month ago

**Selected Answer: B**

B , seems more correct as it dont have enough resources

   upvoted 2 times

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