



- Expert Verified, Online, Free.

[?](#) MENU



## Google Discussions



### Exam Associate Cloud Engineer All Questions

View all questions & answers for the Associate Cloud Engineer exam

[Go to Exam](#)

## [?](#) EXAM ASSOCIATE CLOUD ENGINEER TOPIC 1 QUESTION 78 DISCUSSION

Actual exam question from Google's Associate Cloud Engineer

Question #: 78

Topic #: 1

[\[All Associate Cloud Engineer Questions\]](#)

You are using Google Kubernetes Engine with autoscaling enabled to host a new application. You want to expose this new application to the public, using HTTPS on a public IP address. What should you do?

- A. Create a Kubernetes Service of type NodePort for your application, and a Kubernetes Ingress to expose this Service via a Cloud Load Balancer.
- B. Create a Kubernetes Service of type ClusterIP for your application. Configure the public DNS name of your application using the IP of this Service.
- C. Create a Kubernetes Service of type NodePort to expose the application on port 443 of each node of the Kubernetes cluster. Configure the public DNS name of your application with the IP of every node of the cluster to achieve load-balancing.
- D. Create a HAProxy pod in the cluster to load-balance the traffic to all the pods of the application. Forward the public traffic to HAProxy with an iptable rule. Configure the DNS name of your application using the public IP of the node HAProxy is running on.

[Show Suggested Answer](#)

by [?](#) dan80 at June 5, 2020, 6:11 p.m.

## Comments

Type your comment...

Submit

  **arsav**  3 years, 8 months ago

HAProxy is HTTP only, doesn't support HTTPS, so you can reject option D  
<https://www.haproxy.org/#desc>

Cluster IP - is an internal IP, you cannot expose public externally. reject option B

out of option A and C

C, port 443 is https but public DNS is not going to give you a load balancing  
A is the right choice,  
kubernetes ingress exposes HTTPS  
<https://kubernetes.io/docs/concepts/services-networking/ingress/>

and cloud load balancer is the right choice which will help to expose the app to public

   upvoted 53 times

  **NoniGeorge** 2 years, 9 months ago


Pretty sure that option D works more from on premise than cloud because with cloud you pretty much don't have to configure your ip tables !

   upvoted 1 times

  **dan80**  4 years, 4 months ago

A is correct.

   upvoted 33 times

  **magistrum** 3 years, 9 months ago

Saw this which provides good context <https://medium.com/google-cloud/kubernetes-nodeport-vs-loadbalancer-vs-ingress-when-should-i-use-what-922f010849e0>

   upvoted 21 times

  **nitinz** 3 years, 8 months ago

you nailed it.

   upvoted 2 times

  **yehia2221**  2 months, 4 weeks ago

option A is correct, but do not use it in real deployments, it is a bad practice. I am wondering why they didn't mention Cluster IP and exposing it via an ingress or at least a service of type loadbalancer

   upvoted 1 times




  **Cynthia2023** 9 months, 3 weeks ago

**Selected Answer: A**

In Kubernetes, a Service of type NodePort is a way to expose your applications to external traffic. It's one of the several types of Services available in Kubernetes to control how external sources can access services running within the cluster. Here's what a NodePort service entails:

Exposing Services Outside the Cluster:

A NodePort service makes your application accessible from outside the Kubernetes cluster by opening a specific port (the NodePort) on all the nodes (VMs) in your cluster. This port is randomly selected from a defined range (default: 30000-32767) unless you specify a particular port.

   upvoted 2 times

  **Cynthia2023** 9 months, 3 weeks ago




When a NodePort service is created, each node in the cluster allocates the specified NodePort. External traffic can access the service by hitting any node's IP address at the NodePort, regardless of whether that node is actually running a pod for the service.

Kubernetes internally routes that traffic to the appropriate pods, even if they are running on different nodes.

   upvoted 1 times

  **BAofBK** 11 months, 2 weeks ago

The correct answer is A

   upvoted 1 times

? ? **Captain1212** 1 year, 1 month ago

**Selected Answer: A**

option A is correct as you need load balancing and in option c dns will not give you load balancing

? ? ? upvoted 2 times

? ? **frantishk** 1 year, 2 months ago

I didnt know, that ClusterIP is an internal IP and you cannot expose public externally..

Thanks !

? ? ? upvoted 2 times

? ? **trainingexam** 1 year, 3 months ago

**Selected Answer: A**

A is very easy solution

? ? ? upvoted 1 times

? ? **Buruguduystunstugudunstuy** 1 year, 8 months ago

**Selected Answer: A**

To expose a new application hosted on Google Kubernetes Engine with autoscaling enabled to the public using HTTPS on a public IP address, the most appropriate option would be;

A. Create a Kubernetes Service of type NodePort for your application, and a Kubernetes Ingress to expose this Service via a Cloud Load Balancer.

? ? ? upvoted 1 times

? ? **GS300** 1 year, 9 months ago

**Selected Answer: A**

A works and is correct, but service type should be ClusterIP

? ? ? upvoted 1 times

? ? **csllince** 1 year, 10 months ago

**Selected Answer: A**

A is correct .

? ? ? upvoted 2 times

? ? **gcpBeginner** 2 years ago

Correct answer is A. Create a Kubernetes Service of type NodePort for your application, and a Kubernetes Ingress to expose this Service via a Cloud Load Balancer.

? ? ? upvoted 1 times

? ? **Cornholio\_LMC** 2 years ago

had this question today

? ? ? upvoted 1 times

? ? **NOOGLer** 2 years, 3 months ago

A is the correct

? ? ? upvoted 1 times

? ? **AzureDP900** 2 years, 4 months ago

This is A without any second thought.

? ? ? upvoted 1 times

? ? **haroldbenites** 2 years, 4 months ago

Go for A

? ? ? upvoted 1 times

? ? **BalajiMBala** 2 years, 6 months ago

option A is an correct answer

? ? ? upvoted 1 times

[Load full discussion...](#)

Start Learning for free



## Social Media

[Facebook](#) , [Twitter](#)

[YouTube](#) , [Reddit](#)

[Pinterest](#)



We are the biggest and most updated IT certification exam material website.

Using our own resources, we strive to strengthen the IT professionals community for free.



© 2024 ExamTopics

ExamTopics doesn't offer Real Microsoft Exam Questions. ExamTopics doesn't offer Real Amazon Exam Questions. ExamTopics

Materials do not contain actual questions and answers from Cisco's Certification Exams.

CFA Institute does not endorse, promote or warrant the accuracy or quality of ExamTopics. CFA® and Chartered Financial Analyst® are registered trademarks owned by CFA Institute.