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Exam Professional Cloud Security Engineer All Questions

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EXAM PROFESSIONAL CLOUD SECURITY ENGINEER TOPIC 1 QUESTION 5 DISCUSSION

Actual exam question from Google's Professional Cloud Security Engineer

Question #: 5

Topic #: 1

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When creating a secure container image, which two items should you incorporate into the build if possible? (Choose two.)

- A. Ensure that the app does not run as PID 1.
- B. Package a single app as a container.
- C. Remove any unnecessary tools not needed by the app.
- D. Use public container images as a base image for the app.
- E. Use many container image layers to hide sensitive information.

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by [KILLMAD](#) at March 9, 2020, 11 a.m.

Comments

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[tzKhalil](#) [Highly Voted](#) 2 years, 8 months ago

BC is the answer.

A is wrong, <https://cloud.google.com/architecture/best-practices-for-building-containers#solution> 1 run as pid 1 and register signal handlers

 upvoted 14 times

Selected Answer: BC

 upvoted 2 times

Selected Answer: BC

   upvoted 2 times

it is AE

 upvoted 2 times

It should be A.B

 upvoted 1 times

So, its B C?

 upvoted 1 times

To add to my previous comment

Looks like this could be an issue when talking about security, a malicious coder can write a piece of code to eat all resources on the host with this one bad PID#1

What do you think guys??

 upvoted 1 times

You don't usually want your container to get killed instantly - you want to see the SIGINT or SIGTERM command and respond. For example, in a webserver you may stop accepting connections, and respond to the remaining open ones, before calling `exit()`

 upvoted 3 times

To add to my previous comment

"A process running as PID 1 inside a container is treated specially by Linux: it ignores any signal with the default action. So, the process will not terminate on SIGINT or SIGTERM unless it is coded to do so."

   upvoted 1 times

Really??? Wat about (A)

When the process with pid 1 die for any reason, all other processes are killed with KILL signal.

Shouldnt A be one of the biggest risk when we talk about container security???

 upvoted 2 times

I don't think this is a valid action to do to improve security perhaps it helps more to improve operational excellence. Imagine you are running production application in a container and it is signalled by container run time to terminate. In this case you don't have the running container to understand what would be issue (though you can look at the events in modern container orchestration platform but imagine you are running a simple container). Coming back to your concern. you don't generally run some rubbish container images in your container platform and this build process is very deliberate one.

   upvoted 1 times

bc of bc

 upvoted 1 times

vote for B and C

   upvoted 1 times

RC for cure

BC for sure

   upvoted 1 times

  **ArizonaClassics** 3 years, 6 months ago

BC on point!

   upvoted 2 times

  **KILLMAD** 3 years, 10 months ago

I agree BC

   upvoted 4 times



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