

# Gravity solar container debugging

<div class="df\_qntext">How hard is it to debug containers in Kubernetes?

Debugging even simple containerized applications is challenging. Debugging applications that run in distroless containers is hard. And debugging distroless containers running in a Kubernetes cluster is close to impossible. Unless you know a trick a two.

<div class="df\_qntext">How do I debug a guinea pig container (distroless)?

Start the guinea-pig container (distroless): `-v $(pwd)/debugger:/.debugger --name my-distroless gcr.io/distroless/nodejs -e 'setTimeout(() => console.log("Done"),99999999)' #3`. Start the debugging session: The above docker exec command will place you right into the target container (i.e,all its namespaces will be shared).

<div class="df\_qntext">How do I fix a stable-slim container that doesn't support debugging tools?

The most obvious solution is to put the debugging tools back when you need them. For instance,a container built from `debian:stable-slim` lacks even the basic stuff like `ps`: `sleep 9999 #Nice,the shell is there! root@6aa917a50213:/$##But many tools are missing. You can "fix" it by installing the procps package right into the running container:`

<div class="df\_qntext">How can I build a container from a distroless image?

The approach doesn't work with distroless images since there is no shell or package manager inside. The second most obvious solution is to temporarily switch to another base image. Instead of using `debian:stable-slim`, you can build a container from the regular `debian:stable` base image that has more tools preinstalled.

<div class="df\_qntext">Is a slim container better than a cdebug tool?

UPD: Check out `iximiuz/cdebug` - a container debugging tool that automates some of the techniques from this post. Slim containers are faster(less stuff to move around) and more secure (fewer places for vulnerabilities to sneak in).

<div class="df\_qntext">What are the disadvantages of a debugging approach?

Summarizing the disadvantages of the approach: It's slow (er) and requires different tools and skill sets(than needed for debugging). The target container needs to be restarted (or rather completely replaced using the new image). Not every tool will be available out of the box,so you may need to fallback to the approach #1.

Docker and Core are two massively popular technologies for building and running modern web applications. However, debugging apps running inside containers can be tricky compared to ...

Gravity does not provide a built-in way to update the `rsyslogd` configuration other than configuring log forwarding, but it is possible to enable debug mode on it in order to be able to ...



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To connect to a container debug console in a container app with multiple revisions, replicas, and containers, include the following parameters in the az containerapp debug command.

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We'll cover how to set up a secure SSH environment in the container, install the remote debugger (vsdbg), and configure your container with best practices for naming images and ...

Container energy storage systems are typically equipped with advanced battery technology, such as lithium-ion batteries. These batteries offer high energy density, long lifespan, and exceptional ...

You can think of the gravity shell command as an analogue of the Docker command that requests a shell inside a running Docker container: `docker exec -ti <container> /bin/bash`.

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