Solar container debugging tool

How do I debug a guinea pig container (distroless)?
F.A.Q

How does debug shell work?
Debug Shell automatically asks you to install commands the first time you try to run them:Since it's is an "overlay" on top of the container,it doesn't modify the actual container or image at all,and works on read-only containers. All the extra tools work exactly as if they were running directly in your container.

Where can I find debugging tools?
The debugging tools are available in the target container. By default,the busybox:musl (statically compiled) image is used for the debugger sidecar,but you can override it with the --image flag. Combining this with the superpower of Nix and Nixery,you can get all your favorite tools by simply listing them in the image name:

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).

Can nixery debug images?
Not every image can be used for debugging- the statically linked tools (like busybox) or Nix-based distros expectedly work the best. Installing extra tools on demand will likely be problematic Nixery.dev fixed it for me. Mounting the debugging tools into the target container requires a restart.

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.

How do I get a debug shell inside a Linux container?
To get a debug shell inside,run: The debug shell allows you to inspect the filesystem: dev etc hello nix proc sys The file /hello is the binary that was executed when running the container. You can confirm this by running it directly: After running the binary,it produces the same output.

The target container isn"t recreated and/or restarted. No extra volumes or copying of debugging tools is needed. The debugging tools are available in the target container. Here is how it works under the ...

Docker has revolutionized modern software development by enabling lightweight, portable, and scalable... Tagged with debugging, docker, dockercontainer.

Learn how to debug a container app efficiently using the VS Code Docker extension. This guide covers setup, best practices, common pitfalls, and ...

Slim/distroless containers often lack the much-needed exploration and debugging tools. The article shows four different ways to put your debugging ...

Learn how to use the docker debug command to effectively debug Docker containers and images, including slim containers, modifying files, and managing ...

Debug Shell uses this to copy a container"s namespace, creating a new view where we can inject things without them showing up in the original ...

Container errors are tricky to diagnose, but some investigative magic works wonders. Read along to learn how to debug Docker containers.

debugging-tools A set of debugging tools so I can troubleshoot my running server. The list of packages available in container is sorted by their relations.

The default CMD for the image is the sh script /run.sh which makes debugging the main container possible, and copies some useful (optional) tools into the main container"s filesystem, and starts an ...

To connect to a container the debug console, use the az containerapp debug command. To exit the console, enter exit or use Ctrl/Cmd + D. For example, connect to a container ...

Keep in mind that such debugging sessions are rare, but sometimes very useful. We"ll cover how to set up a secure SSH environment in the container, install the remote debugger (vsdbg), ...

Debugging Docker containers can be frustrating. Luckily, Docker provides several commands that make managing and troubleshooting containers ...

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Koolkits - Language-specific container images that contain a (highly-opinionated) set of tools for debugging applications running in Kubernetes pods. Intended for use with kubectl debug.

Bugzy AI kept writing broken tests. Instead of debugging manually, I made Claude Code spawn itself inside a container to debug Bugzy. AI debugging AI. Welcome to 2025. Here"s the problem: ...

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I"ve rounded up 16 specialized tools that go far beyond docker logs and docker exec. These tools will help you analyze images, monitor runtime performance, manage logs effectively, and ...

dive - a container debugging tool A powerful container debugging tool that injects a full-featured shell into any container - even minimal distroless images - making debugging seamless ...

Master container debugging in Rancher with our comprehensive guide to helper templates and debugging tools, improving your Kubernetes troubleshooting workflow.

docker debug is not limited to running containers, as in the example above. Even if a container is stopped and you maybe can"t start it anymore because it immediately crashes, docker ...

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Relevant source files Container debugging in Kubernetes involves directly interacting with running containers for diagnostic purposes. This page documents the debugging tools available in the kubectl ...

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Kubernetes Ephemeral Debug Containers: A Game-Changer for Troubleshooting If you"ve ever needed to spin up a debug container in Kubernetes, you know the pain of deploying ...

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Once the debugging container is running, the user can interact with it using standard debugging tools such as

gdb, strace, and tcpdump. The kubectl ...

Containers can fail, pods can crash, and configurations can break. Without proper debugging, these issues can lead to downtime, performance ...

A variety of tools can aid in container debugging, including dedicated container debugging tools, and standard debugging tools adapted to container environments. These tools ...