

How the heck do I debug distroless containers?

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Distroless Images

What are they?

Why would I use them?

How do you debug/troubleshoot them?





<u>Image</u>	Size(MB)	Base Distro	Packages*	<u>Vulns</u>	Critical	<u>High</u>	<u>Medium</u>	Low	<u>Negligible</u>	<u>Unknown</u>	<u>Ignored</u>
node:22.9.0-bookworm	1590	Debian 12	618	586	10	115	262	36	439	257	533
node:22.9.0-bookworm-slim	333	Debian 12	292	67	1	1	13	3	46	3	0

data gathered 10/5/24 using grype v0.81.0



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node:22.9.0-bookworm-slim	333	Debian 12	292	67	1	1	13	3	46	3	0
gcr.io/distroless/nodejs22-debian12:debug	212	Debian 12	10	18	1	0	7	0	10	0	0
gcr.io/distroless/nodejs22-debian12:latest	210	Debian 12	9	14	1	0	3	0	10	0	0

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gcr.io/distroless/nodejs22-debian12:debug	212	Debian 12	10	18	1	0	7	0	10	0	0
gcr.io/distroless/nodejs22-debian12:latest	210	Debian 12	9	14	1	0	3	0	10	0	0
cgr.dev/chainguard/node:latest-dev	943	Wolfi	319	0	0	0	0	0	0	0	0
cgr.dev/chainguard/node:latest	198	Wolfi	270	0	0	0	0	0	0	0	0

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cgr.dev/chainguard/node:latest-dev	943	Wolfi	319	0	0	0	0	0	0	0	0
cgr.dev/chainguard/node:latest	198	Wolfi	270	0	0	0	0	0	0	0	0
node:22.9.0-alpine	213	Alpine 3.20.3	220	0	0	0	0	0	0	0	0

data gathered 10/5/24 using grype v0.81.0



Distroless Images

Runtime Debugging Demonstration



Thank you!

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chainguard.dev

Resources:

Tools used/mentioned:

- Google Distroless Images
- <u>Docker Debug</u>
- cdebug
- o <u>dive</u>
- Grype



https://github.com/ericsmalling/presentations/ /tree/main/debugging-distroless

Related Content:

- Images as Code: The pursuit of declarative image builds
- o Software Engineering Daily: Container Security with Matt Moore
- <u>Debugging Distroless Containers with Docker Debug</u>
- <u>Debugging Distroless Images with Kubectl Debug and CDebug</u>

