

Docker Desktop 4.19: Compose v2, the Moby project, and more

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Docker Desktop release 4.19 is now available. In this post, we highlight features added to Docker Desktop in the past month, including performance enhancements, new language support, and a Moby update.



5x faster container-to-host networking on macOS

In Docker Desktop 4.19, we've made container-to-host networking performance 5x faster on macOS by replacing [vpnkkit](#) with the TCP/IP stack from the [gVisor](#) project.

Many users work on projects that have containers communicating with a server outside their local Docker network. One example of this would be workloads that download packages from the internet via `npm install` or `apt-get`. This performance improvement should help a lot in these cases.

Over the next month, we'll keep track of the stability of this new networking stack. If you notice any issues, you can revert to using the legacy `vpnkkit` networking stack by setting `"networkType": "vpnkkit"` in Docker Desktop's `settings.json` config file.

Docker Init (Beta): Support for Node and Python

In our [4.18 release](#), we introduced `docker init`, a CLI command in Beta that helps you easily add Docker to any of your projects by creating the required assets for you. In the 4.19 release, we're happy to add to this and share that the feature now includes support for Python and Node.js.

You can try `docker init` with Python and Node.js by updating to the latest version of Docker Desktop (4.19) and typing `docker init` in the command line while inside a target project folder.

The Docker team is working on adding more languages and frameworks for this command, including Java, Rust, and .Net. [Let us know](#) if you would like us to support a specific language or framework. We welcome any feedback you may have as we continue to develop and improve Docker Init (Beta).

```
Welcome to the Docker Init CLI!

This utility will walk you through creating the following files with sensible defaults for your project:
- .dockerignore
- Dockerfile
- compose.yaml

Let's get started!

? What application platform does your project use? [Use arrows to move, type to filter]
> Node - (detected) suitable for a Node server application
  Go - suitable for a Go server application
  Python - suitable for a Python server application
  Other - general purpose starting point for containerizing your application
  Don't see something you need? Let us know!
  Quit
```

Docker Scout (Early Access)

With Docker Desktop release 4.19, we’ve made it easier to view [Docker Scout](#) data for all of your images directly in Docker Desktop. Whether you’re using an image stored locally in Docker Desktop or a remote image from Docker Hub, you can see all that data without leaving Docker Desktop.

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Volumes

Dev Environments BETA

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myorg

3.0.18	🔍	Inactive	almost 3 years ago	7.73 MB
3.3.1	🔍	Inactive	almost 3 years ago	8.95 MB
See more				
🔒 myorg/app	latest	🔍	7 C 25 H 16 M 1 L	27 days ago506.3 MB
View in Hub Pull				
	1.3.0	🔍	7 C 25 H 16 M 1 L	27 days ago506.3 MB
	1.2.0	🔍	7 C 23 H 16 M 1 L	about 1 month ago506.3 MB
See more				
🔒 myorg/service	latest	🔍	Inactive	over 5 years ago311.17 MB
	0.14.0	🔍	Inactive	about 5 years ago307.79 MB
	813.0.0	🔍	Inactive	over 5 years ago311.17 MB
See more				
🔒 myorg/auth	0.5.4	🔍	Inactive	about 7 years ago6.13 MB

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myorg/app:latest

LAST PUSHED27 days agoSIZE506.3 MB

[View recommended base image fixes](#)

Advanced image analysis is provided by Docker Scout (Early Access)

Upgrade to continue to get access to guided vulnerability remediation and additional software supply chain features. [Learn more](#) and [upgrade](#).

Image hierarchy

FROM docker/python27:3

FROM debian:9, 9.13, stretch, stretch-20210208

ALL myorg/app

Layers (28)

0	ADD file:e1e13145e23f170f2d5444019a2d1...	45.38 MB	🔍
1	CMD ["bash"]	0 B	🔍
2	MAINTAINER Distribution Services <saas@do...	0 B	🔍
3	ENV DEBIAN_FRONTEND=noninteractive	0 B	🔍
4	apt-get update && apt-get install -yq autoconf ...	287.11 MB	🔍
5	git clone -b v2.7.18.3 --depth 1 https://github.c...	36.12 MB	🔍
6	WORKDIR /cpython	0 B	🔍
7	./configure	86.81 KB	🔍
8	make && make install	51.9 MB	🔍
9	ADD file:a0321e4a8e18a1875d8e895b0e3d65...	1.52 MB	🔍
10	python get-pip.py	5.85 MB	🔍

Images (3)Vulnerabilities (48)Packages (746)

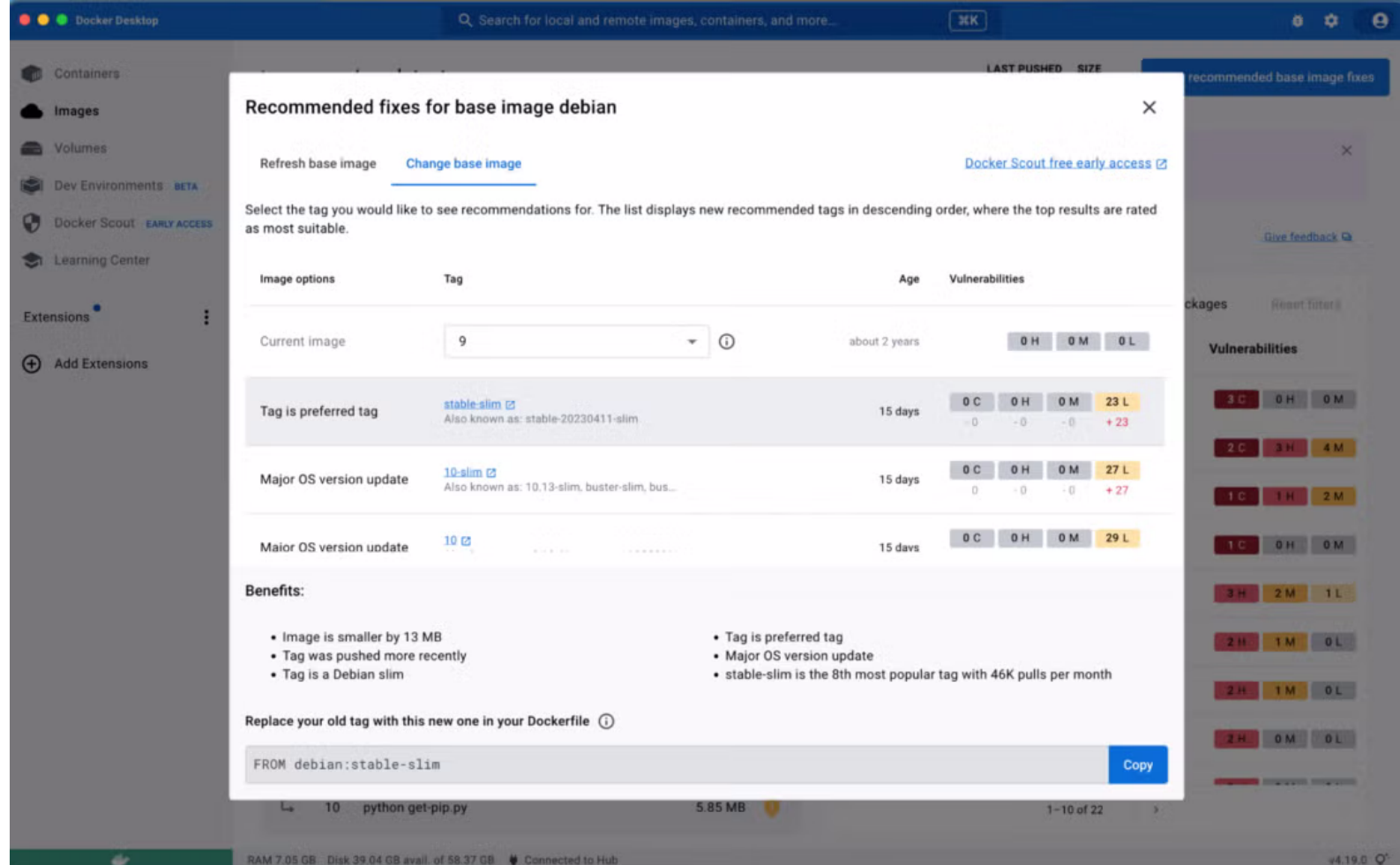
Package or CVE name

☐ Fixable packages

[Reset filters](#)

Package	Vulnerabilities
> pyyaml 3.11	3 C 0 H 0 M
> django 1.8.18	2 C 3 H 4 M
> cryptography 2.7	1 C 1 H 2 M
> django-debug-toolbar 1.4	1 C 0 H 0 M
> werkzeug 0.9.6	3 H 2 M 1 L
> protobuf 3.2.0	2 H 1 M 0 L
> jinja2 2.7.3	2 H 1 M 0 L
> pygments 2.5.2	2 H 0 M 0 L

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A nudge toward Compose v2

Compose v1 has reached end-of-life and will no longer be bundled with Docker Desktop after June 2023.

In preparation, a new warning will be shown in the terminal when running Compose v1 commands. Set the `COMPOSE_V1_EOL_SILENT=1` environment variable to suppress this message.

You can upgrade by enabling **Use Compose v2** in the Docker Desktop settings. When active, Docker Desktop aliases `docker-compose` to Compose v2 and supports the recommended `docker compose` syntax.

Moby 23

We updated the Docker Engine and the CLI to Moby 23.0, where we are upstreaming open source internal developments such as the containerd integration and Wasm support, which will ship with Moby 24.0. Moby 23.0 includes additional enhancements such as the `--format=json` shorthand variant of `--format=""` and support of relative source paths to the `run` command in the `-v/--volume` and `-m/--mount` flags. You can read more about Moby 23.0 in the [release notes](#).

Conclusion

We love hearing your feedback. Please leave any feedback on our [public GitHub roadmap](#) and let us know what else you'd like to see. Check out the [Docker Desktop 4.19 release notes](#) for a full breakdown of what's new in the latest release.