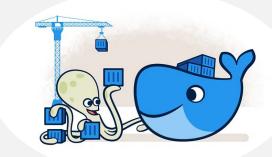
What's New in Docker Desktop 4.15

Dec 15 2022

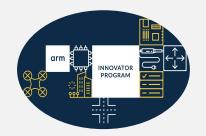




Speaker

- Working at Docker, Inc
- Author @ https://collabnix.com
- Docker Captain
- Docker Community Leader, Bangalore
- ARM Innovator
- Worked @ DellEMC, VMware, Redis & CGI















Agenda

- What's New in Dev Environments?
- New Dev Environments CLI
- New Chrome Extensions for Dev Environments
- Docker + WebAssembly Awesomeness
- New Hub Search Capabilities
- New Docker Extensions

Docker Overview

On Server, IoT Edge On Desktop **Developer Tools** SaaS or in the Cloud **Docker Compose** Docker Engine Docker Hub Docker Desktop for Mac Docker Buildkit Docker Engine support Docker Desktop for Windows for IoT Docker CLI Docker Desktop for Linux **Docker Content** Kubernetes **Docker Extensions**

Features of Docker Desktop

Dev Environments



Docker Extensions



Support for Containerd



Vulnerability Scanning

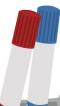


Support for Wasm Containers



Support for Kubernetes





Dev Environments





A Traditional Docker Workflow

BUILD SHARE RUN



Docker Desktop for Mac Docker Desktop for Windows



DockerHub







- \$ Clone Repo
- \$ Install Docker
- \$ docker compose up



Challenges in the traditional approach

- Developers need to manually download all the tools to setup their development environments.

For Ex:

- VS Studio software/IntelliJ
- GitHub/Plugins



Dev Environments Give feedback

Create +

Create a configurable developer environment with all the code and tools you need to quickly get up and running. Learn more

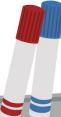
Define. Distribute. Iterate.

Define your project's configuration as code, distribute your project easily amongst your team, and have everyone work on the same code and any dependencies with one click.

Create a new environment

Or try running a sample...

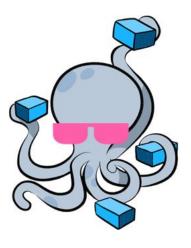
Run a single container
Run a microservices container



New Features & Enhancements:

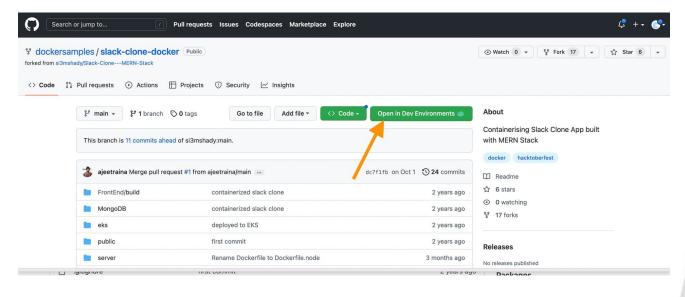
- New Dev Environments CLI
- Dev Environments allow cloning a Git repository to a local bind mount, so you can use any local editor or IDE.(and not just Visual Studio Code)
- New Chrome Extension
- Deploy app directly from Awesome Compose Repository
- Improvements: Custom names, Better private repo support

A Quick Demo



https://github.com/docker/awesome-compose

New Chrome Extension for Dev Environments



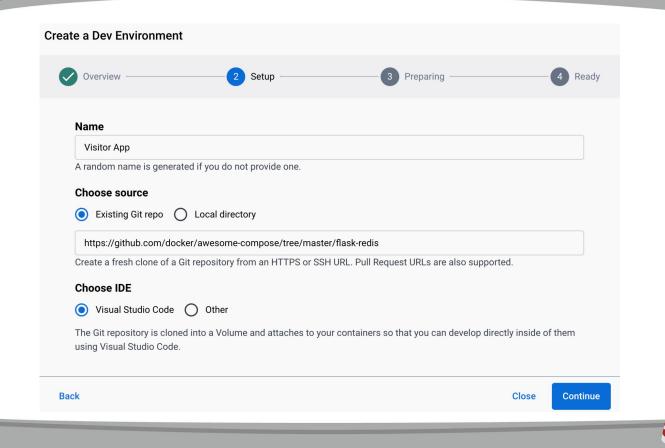
https://github.com/docker/dev-envs-extension

New Dev Environments CLI

```
% docker dev
Usage: docker dev [OPTIONS] COMMAND
Docker Dev Environments CLI interface
  -s, --socket string Sets the path to the unix socket or pipe to be
                       targeted. Can also be set through the environment
                       variable DOCKER DEV ENVS SOCKET PATH
                       Display version of the dev plugin
Management Commands:
             Service management on a dev environment
Commands:
  check
             Check Dev Environments
  create
             Create a new dev environment
             Lists all Dev Environments
             Traces logs from a dev environment
             Open Dev Environment with the IDE
             Removes a dev environment
             Starts a dev environment
             Stops a dev environment
             Show the Docker Dev version information
Run 'docker dev COMMAND --help' for more information on a command.
unknown docker command: dev []
```

https://github.com/docker/dev-envs-extension



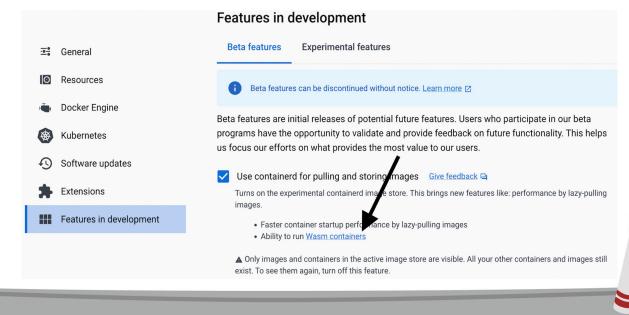


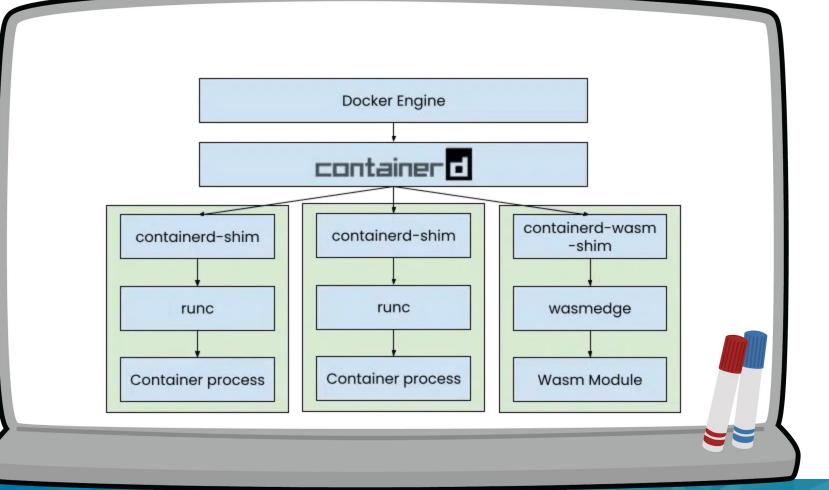
Docker + Wasm





- Docker Desktop 4.15 added WebAssembly capabilities.
- Use with the containerd integration.





- Docker Desktop 4.15 added WebAssembly capabilities.
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Docker + Wasm Resources

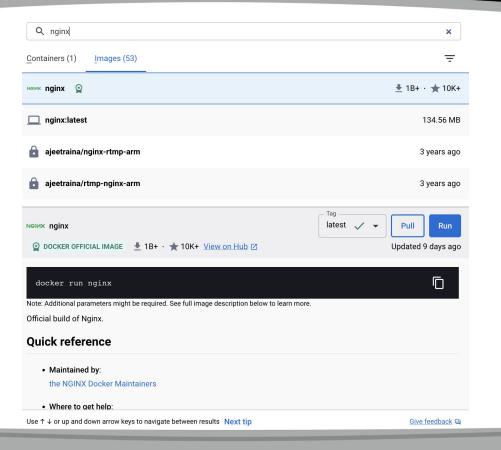


https://github.com/collabnix/wasm-docker-better-together



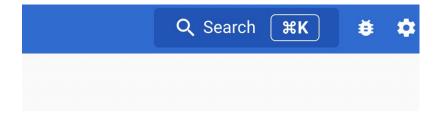
New Hub Search Capabilities







Search Capabilities Demo

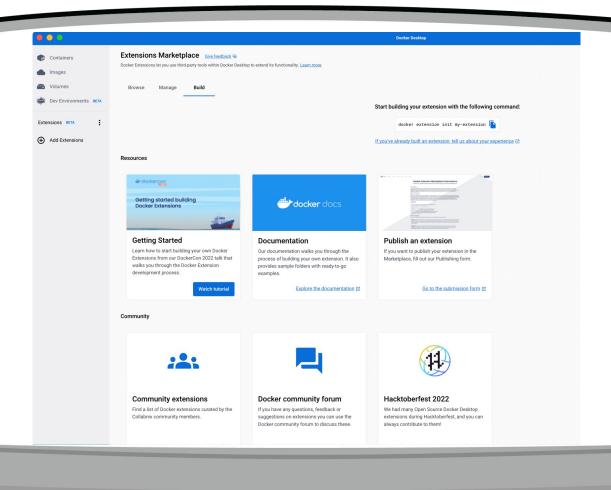


https://collabnix.com/integrated-search-capability-in-docker-deskto p-to-accelerate-the-modern-application-development/



What's New in Docker Extensions?





Extensions Demo



https://github.com/collabnix/docker-community-extensions



Have Queries?

https://forums.docker.com



simplicity choice

