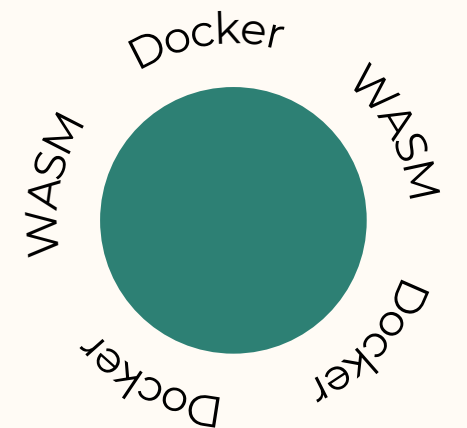


WASM vs Docker: Partners, Not Rivals

Presentation by
Pradumna Saraf



你好

\$ whoami



Pradumna Saraf

- ▶ Open Source Developer/DevRel
- ▶ Docker Captain
- ▶ Create Content



Solomon Hykes ✓

@solomonstre

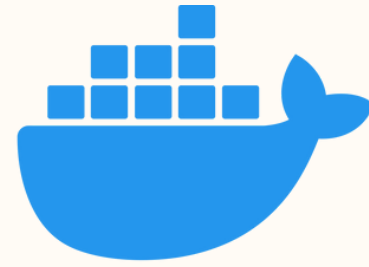


If WASM+WASI existed in 2008, we wouldn't have needed to create Docker. That's how important it is. Webassembly on the server is the future of computing. A standardized system interface was the missing link. Let's hope WASI is up to the task!



WebAssembly (WASM) is a binary instruction format that helps run high-performance code written in languages like C, C++, or Rust directly in the browser.

This makes it possible to use complex apps like Figma and Photoshop or play advanced games online, all without installing anything.



VS



Package Code

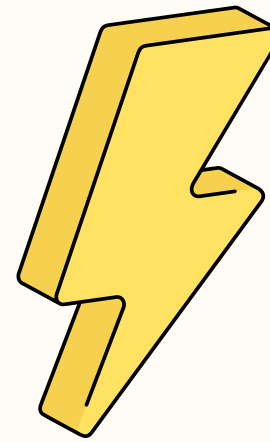
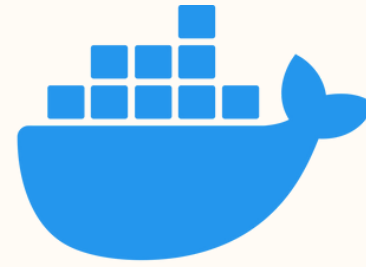
High Portability

Runtime Isolation

Near Native Performance

High Security

Quick Startup Time



Package Code

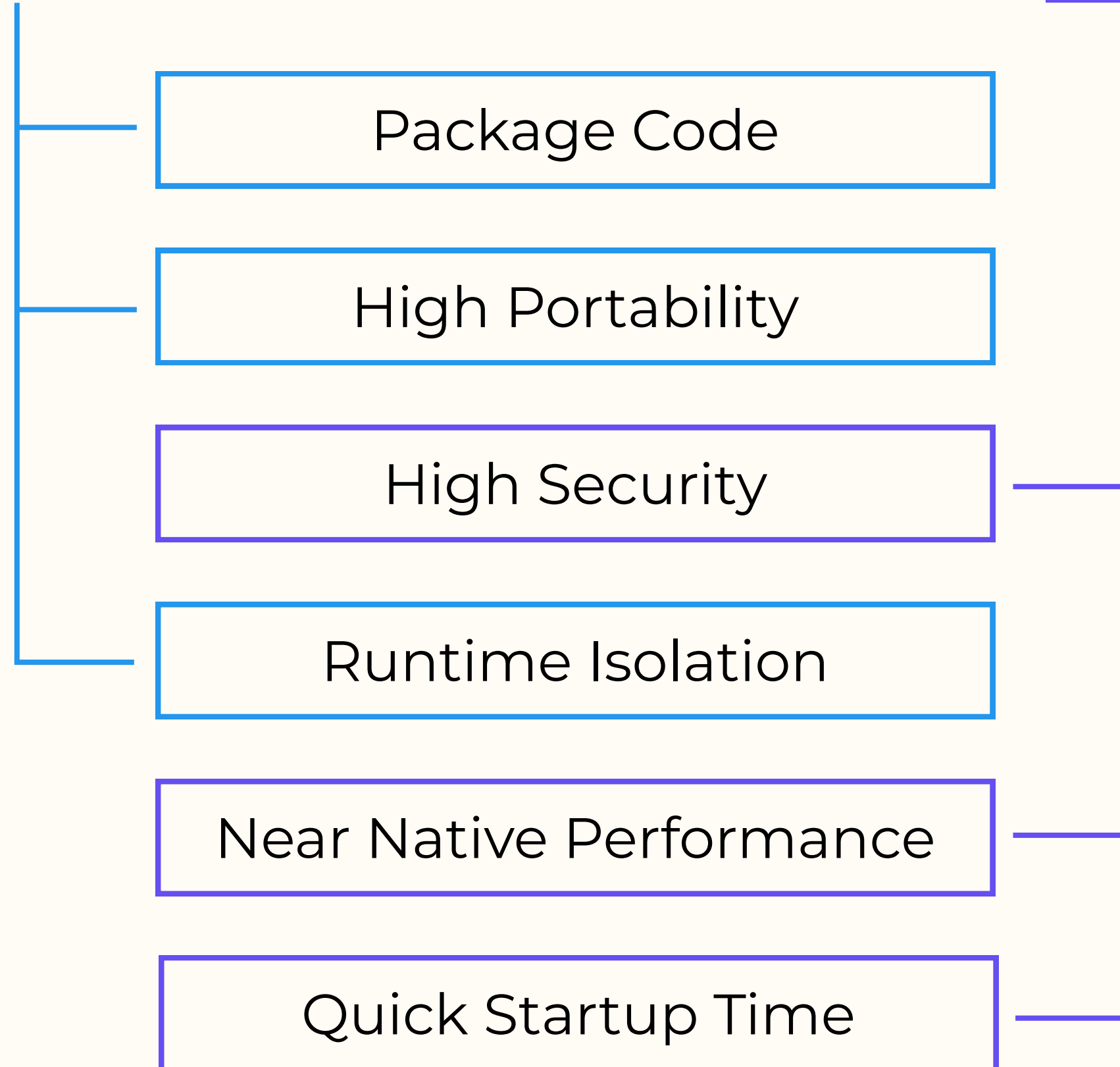
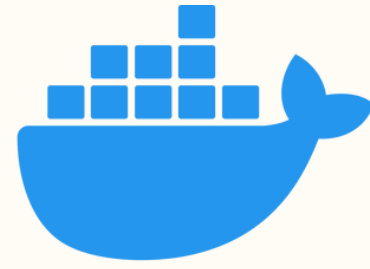
High Portability

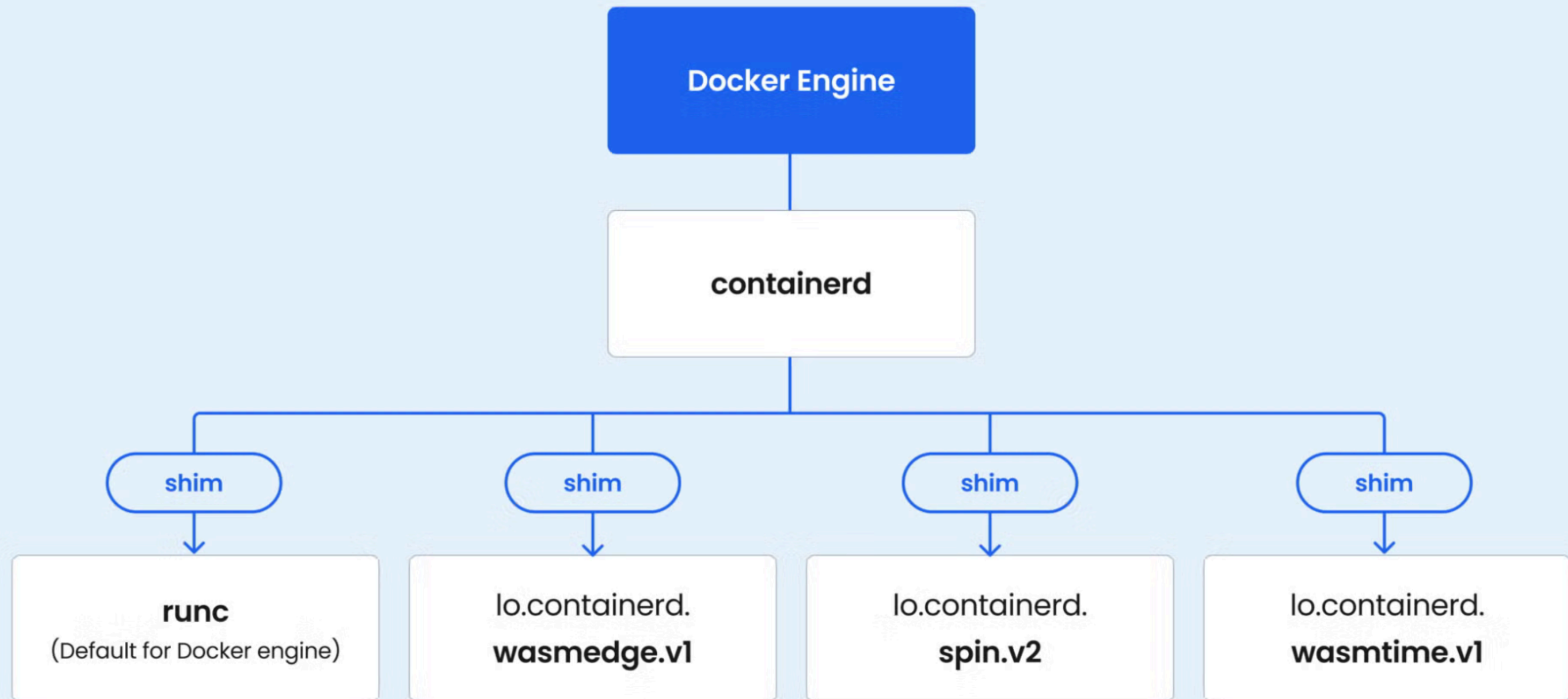
Runtime Isolation

Near Native Performance

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Quick Startup Time





- Running Windows, Linux, and WebAssembly containers side by side.
- Supporting multiple WASM runtimes.
- **Workflow:** WASM containers are being built, tagged, and pushed to Docker Hub using standard Docker workflows. Docker Desktop integration, the same docker build, docker tag, and docker push commands. Plus, they are OCI-compliant

```
1 FROM scratch
2 COPY /helloworld.wasm /helloworld.wasm
3 ENTRYPOINT ["helloworld.wasm"]
```

Connect With Me



links.pradumnasaraf.dev