



cosmonic

Any Cloud, Any Edge, Any Scale

THE FUTURE OF DISTRIBUTED APPLICATIONS, TODAY



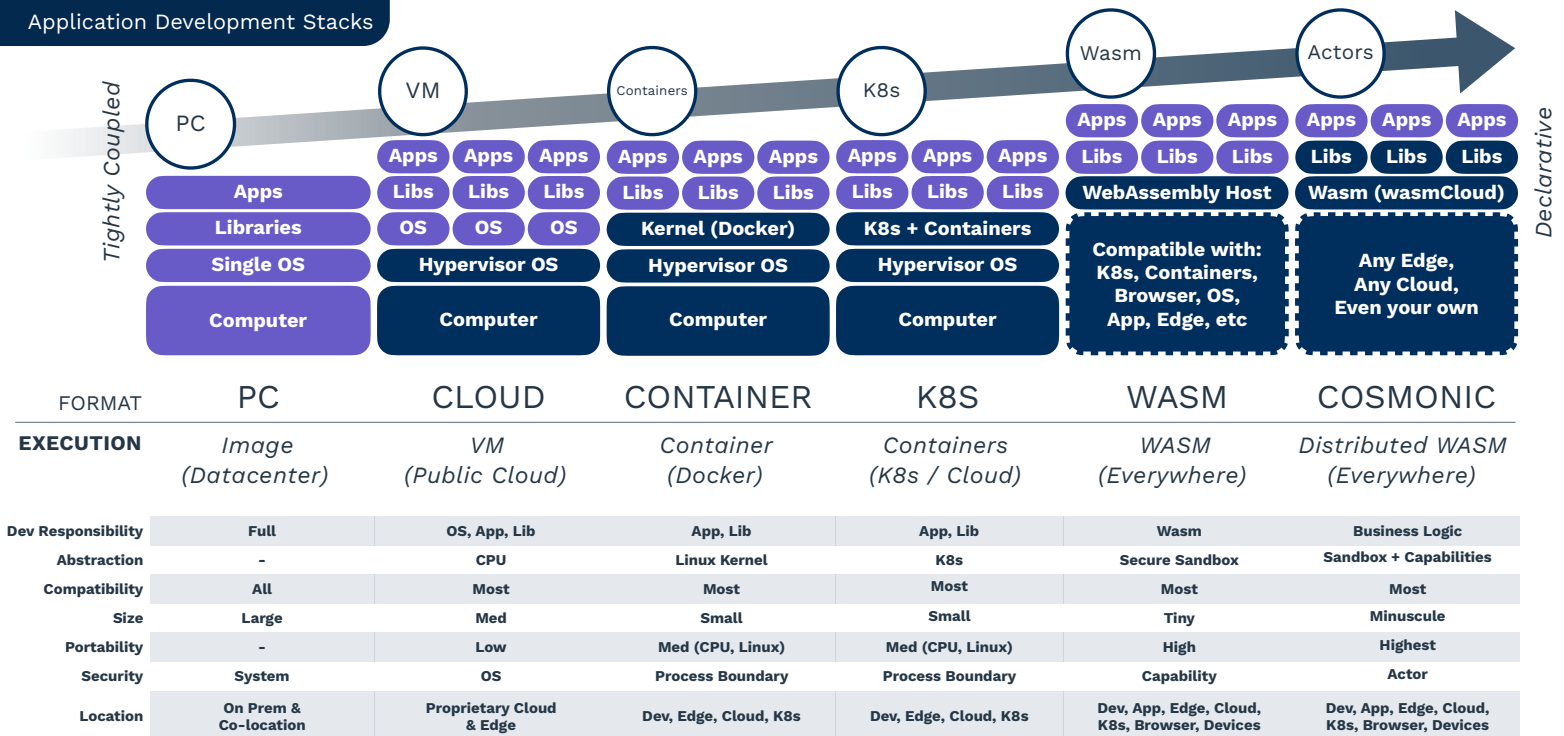
With Cosmonic...

- Build, deploy, and scale** your applications for any location within minutes.
- Build any app, flexibly.** From FaaS to monolith, microservices to edge, Cosmonic lets you harness the power of WebAssembly in your own environment.
- Connect your own infrastructure.** Don't get stuck with one cloud. Connect your own infrastructure and application with a single command.
- Apps are 200x smaller with 95% less source code.** Actors compile and deploy from 2KB - 2MB vs. more than 4GB using Java Spring Boot.

With wasmCloud...

- Kubernetes compatible, not dependent.** Your applications can be fully integrated with K8s without being beholden to legacy systems
- Build faster with components** Fully compatible with ALL Wasm standards, including WASI (when it arrives).
- Cosmonic built and supports the CNCF sandbox project.** Open source technology is well supported and is growing rapidly with 100% contributor growth, Q4 2022.
- Scalability is built in.** Horizontal and vertical scaling is simple with stateless actors

Application Development Stacks



WASM THE FINAL ABSTRACTION

Cosmonic

wasmCloud



Virtual Machines, the public cloud, containers, and Kubernetes changed how we orchestrated and delivered applications. Now, WebAssembly couples pure business logic with runtime capabilities.

- ✦ **Open W3C Standard.** Developed with transparent, community-led governance, WebAssembly has been adopted in thousands of common applications. Capabilities are growing with more emerging in WASI standards.
- ✦ **Component Model.** Portable, composable, interoperable, and virtualizable WebAssembly modules allowing maximum flexibility and boilerplate reduction.
- ✦ **Sandboxed & Secure.** Code executes in a secure sandbox, preventing access to resources not allocated to it by the host runtime.
- ✦ **Deny-by-Default.** Code only runs with host-granted permissions. Just as mobile apps are required to request location, Wasm modules must declare their permissions before they run.
- ✦ **Polyglot.** Broad support for languages like C, C++, Rust, .Net—and emerging support for Python, Go, Typescript and others—allows teams to compose applications from many polyglot components.
- ✦ **Portable.** Components are compiled once and are delivered across a diverse range of hardware architecture (x86, ARM, etc), operating systems, and devices.
- ✦ **Contract Driven Design.** Grants component-level portability across standard APIs: SQL, Key-Value, Logging, Tracing, and more.
- ✦ **Runtime Pluggability.** Attach the latest most up-to-date versions of components at runtime vs compile time embedding.

