

Platform Engineering today has some problems

Build

- Boilerplate code duplicated for each app
- Most app code is not your code

Maintain













- 1000s of apps must be updated manually
- Templates to maintain for each language

Run

- Expensive Platforms, Lacks Portability
- Region/Provider Locked

Platform Engineering Today

Containerized Applications

 Vulnerability	 Up to date	 Old template
 Old template	 Missing APIs	 Incompatible
 Up to date	 Vulnerability	 Insecure
 Missing APIs	 Incompatible	 Up to date

Golden Path Application Templates



Spring Boot Template

```
lib/Auth.java
lib/O11y.java
lib/Secrets.java
lib/Blobstore.java
lib/Messaging.java
```



Node App Template

```
lib/auth.js
lib/o11y.js
lib/secrets.js
lib/blobstore.js
lib/messaging.go
```



Python App Template

```
lib/auth.py
lib/o11y.py
lib/secrets.py
lib/blobstore.py
lib/messaging.py
```



Go App Template

```
lib/auth.go
lib/o11y.go
lib/secrets.go
lib/blobstore.go
lib/messaging.go
```

Application Platform

Authentication

Secrets

Artifact Registry

Observability

Storage

Messaging

Deploy Targets

Kubernetes

DevOps Platform

Version Control

Backstage

Build/DevSecOps

CI/CD

Collaboration

Tickets/Tools/etc.



Platform Engineering with CNCF wasmCloud

Build

- All languages re-use the same interfaces
- Multiple languages with APIs for free

Maintain

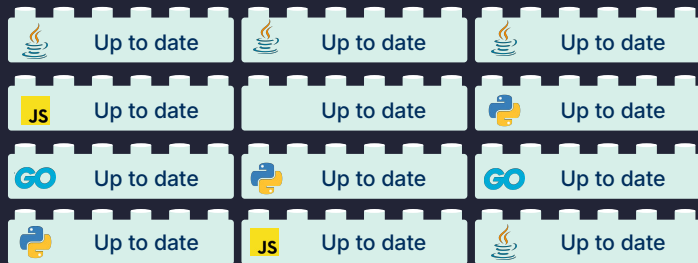
- Updates managed centrally without recompiling
- Single provider implementation for all languages
- Template is always up to date

Run

- Compatible with K8s, not dependant on it
- Run in edges, clouds, on-prem, end user devices



Wasm Components



Single Application Template



Application Platform



Deploy Targets



DevOps Platform

