# gepardec



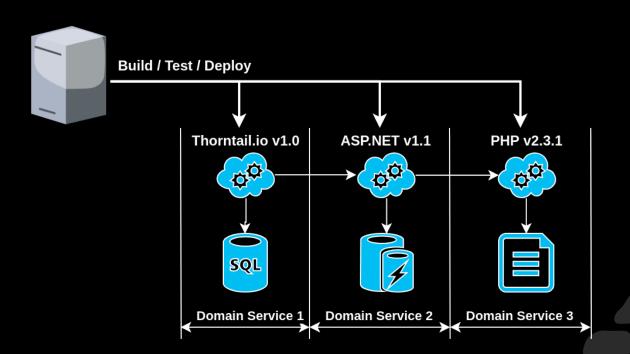
# Microservices with Thorntail.io





#### What are Microservices?

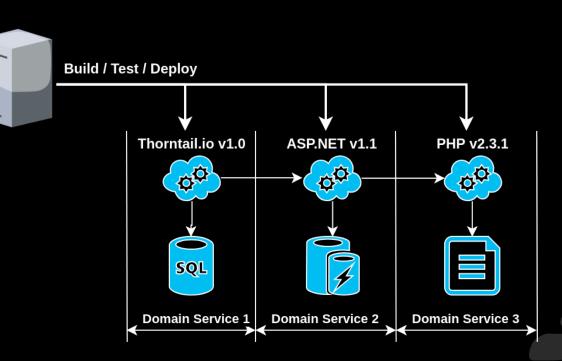
- Fully decoupled
- High level of cohesion
- Communicate via REST
- One service equals
  - one domain
  - one life cycle
  - one release cycle
- Standalone applications





## Advantages of Microservices

- Small deployment units
- Fully decoupled domains
- Different languages possible
- Different data storages possible
- Easy to containerize
- Easy to distribute
- Easy to scale





#### What is Thorntail.io?

- JEE answer to Spring Boot
- Based on Wildfly Server
- Optimized for MicroProfile
- Integrates MicroProfile specs.
- Results in standalone jar
- 100% Jakarta Enterprise



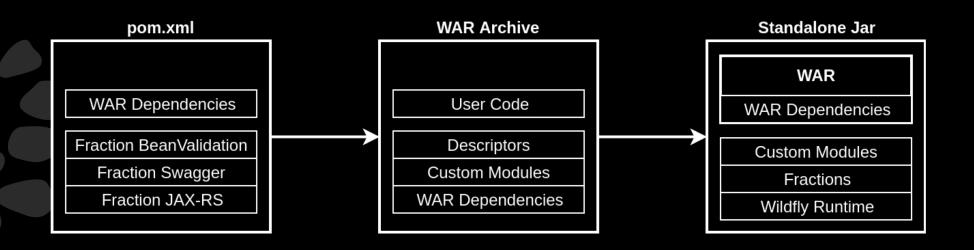
https://thorntail.io/



https://microprofile.io/



#### Structure of Thorntail.io?

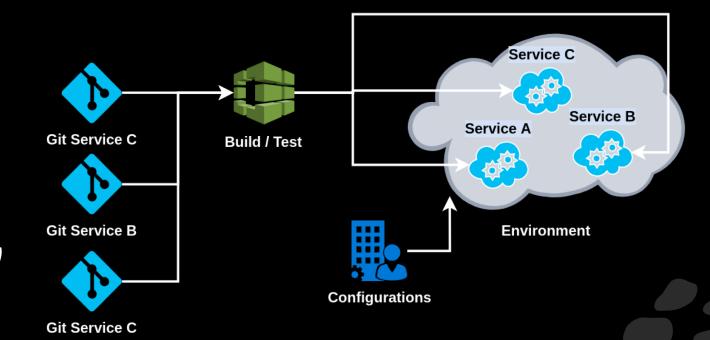


- Framework consists of so called Fractions (Similar to Spring Boot Starter Projects)
- Fractions bring in aspects (e.g.: JAX-RS, Swagger)
- Defined by pom.xml and configuration files



#### Releases with Thorntail.io

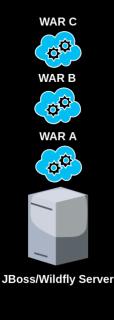
- Each service
  - in own repository
  - with own build / test / release
- Smaller units to release
  - faster to build / test / deploy
  - faster to respond to issues
- Larger files to deploy (>= 100 MB)
  - has its own runtime
- Configurable via
  - configuration file
  - system properties
  - environment variables
  - custom configuration source

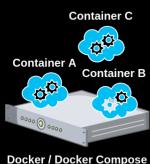


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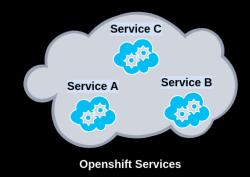
### Deployments with Thorntail.io

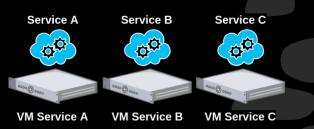
- Deploy on an application server
  - Needs to provide dependencies
- Deploy as standalone services
  - Provides all dependencies
- Deploy in Openshift
  - Fuse Integration Services
- Deploy in any other Cloud
  - Azure, Google, ...







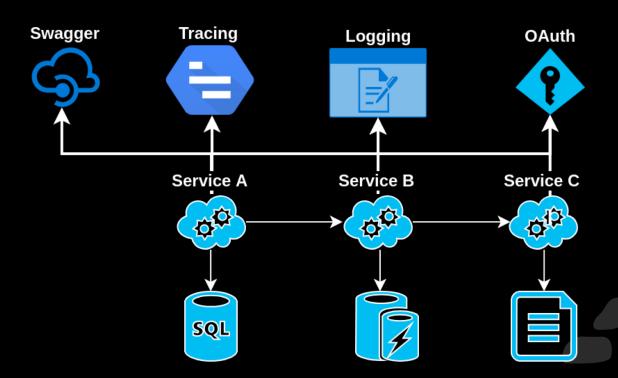






## Management with Thorntail.io

- Support provided by Fractions
- No custom code
- Only configuration necessary, and annotations
- Still an ordinary WAR archive!!



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## Questions?

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