

OpenShift on the MOC

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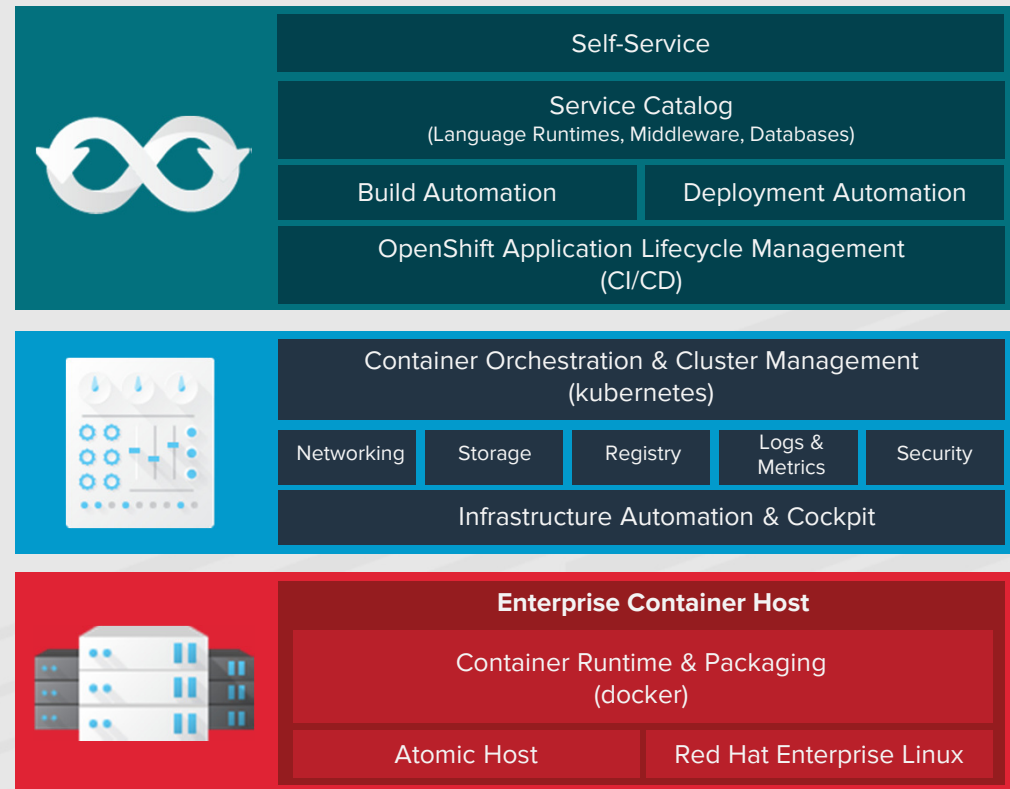
What's OpenShift?



A supported version of Kubernetes which adds developer and operational tooling

Kubernetes is a container orchestration and cluster management system

By many measurements the most active project on GitHub





Why OpenShift/Kubernetes?

- Anything that runs in Linux can run in a Linux Container
- Makes your code/application:
 - Easy to distribute with lightweight immutable container image(s)
 - Isolated from dependency issues which makes your code more reusable
 - The API or service your application provides is all that matters to consumers
 - Easy to run
 - With declarative config
 - Easy to operationalize
 - Standardizes deployment, logging, metrics, health checks, resource management, security, networking, and load balancing
 - Provides complete application lifecycle management
 - Develop -> Build -> Test -> Run -> Manage

What You Can Do?



Provided OOTB:

Web Frameworks:

Tomcat, JBoss EAP, .Net core, Node.js,
Python, PHP, Ruby and Perl

Jenkins for CI/CD

Databases:

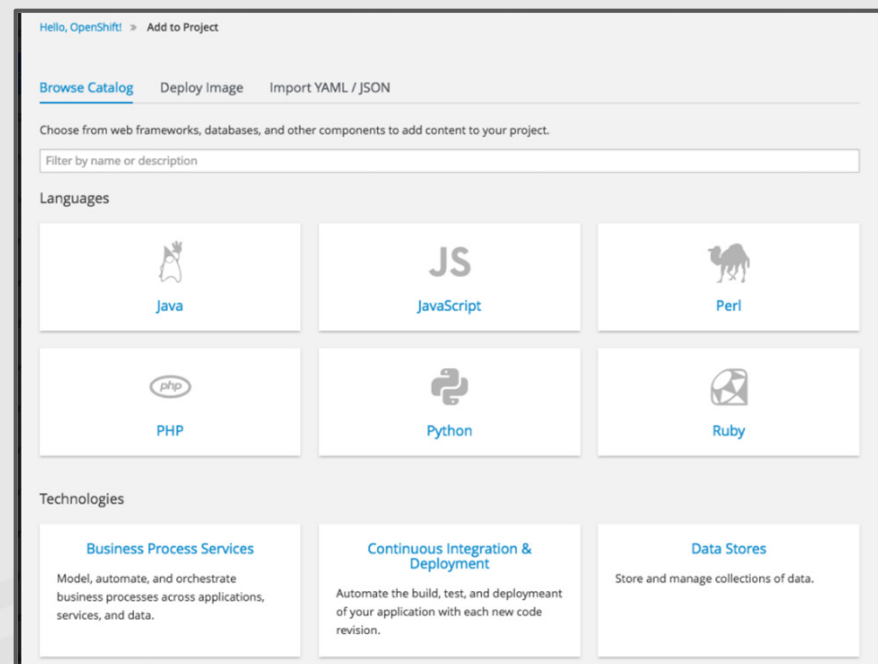
MySQL, PostgreSQL, MongoDB

Or you can bring your own image(s):

Reference public registries (Ex: DockerHub)

Or build your own with a Dockerfile

Example Dockerfiles and build instructions will be up
on the MOC website





Getting Access

- Get a Kaizen account:
 - <https://massopen.cloud/blog/user-account-request-form/>
- Log into OpenShift
 - <https://openshift.massopen.cloud>
- Primary Use Cases:
 - Research
 - Course Work

OpenShift Tutorial

Tomorrow at 11am!



Thanks!