IDS PROJECT 6: BOOKSTORE

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Technologies Used











Google Cloud Platform







Why JHipster Framework?

Monolithic Architecture.

Large Compatibility

Quick to deploy



Java Spring Boot



Framework for "dependency-injection" (pattern that allows to build decoupled systems).

```
public class UserListerDB implements UserLister {
public interface UserLister {
                                     public List<User> getUsers() {
    List<User> getUsers();
                                         // DB access code here
<bean id="userLister" class="UserListerDB" />
<bean class="SomeView">
    property name="userLister" ref="userLister" />
</bean>
public class SomeView {
                                      UserLister userLister = new UserListerDB();
   private UserLister userLister;
   public void render() {
       List<User> users = userLister.getUsers();
       view.render(users);
                       UserLister userLister = new UserListerCommaSeparatedFile();
```



- Container for cloud plattaform.
- Why use it?

Autoscaling

Load Balancing



Remote Storage

Service Discovery

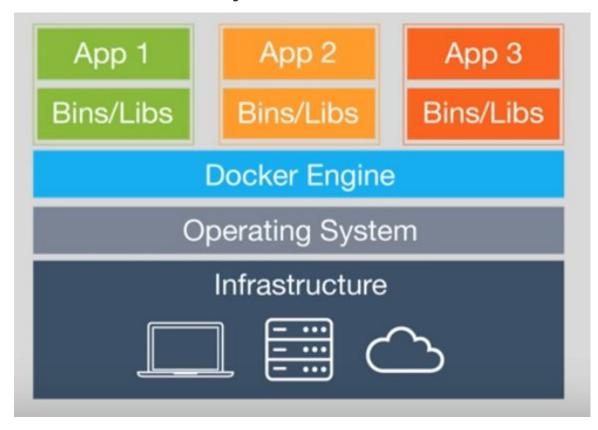
	amazon web services	Google Cloud Platform	Microsoft Azure	openstack	Bare Meta
Autoscaling	Autoscaling Group	Autoscaler	Scale Set	Heat Scaling Policy	X
Load Balancing	Elastic Load Balancer	Load Balancer	Load Balancer	LBaaS	×
Remote Storage	Elastic Block Store	Persistent Disk	File Storage	Block Storage	×
Service Discovery	×	×	×	Х	×



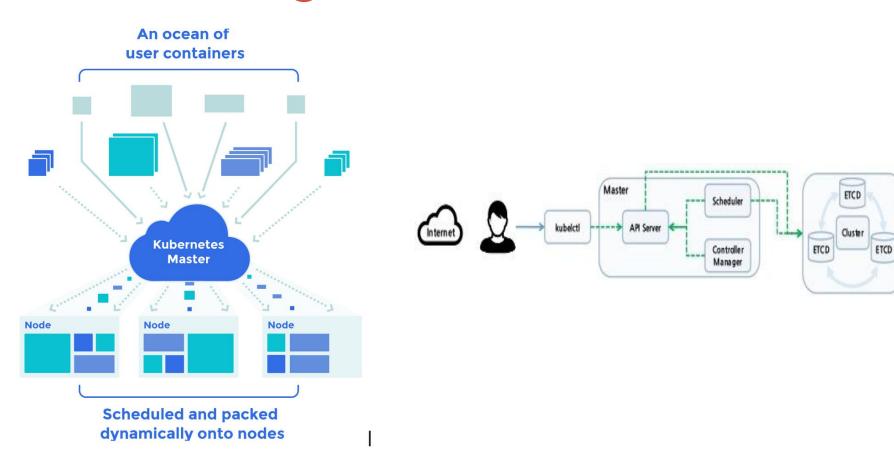
OS Virtualization

Use drivers, not a virtualization system.

Portability
Containers
Flexibility
OpenSource



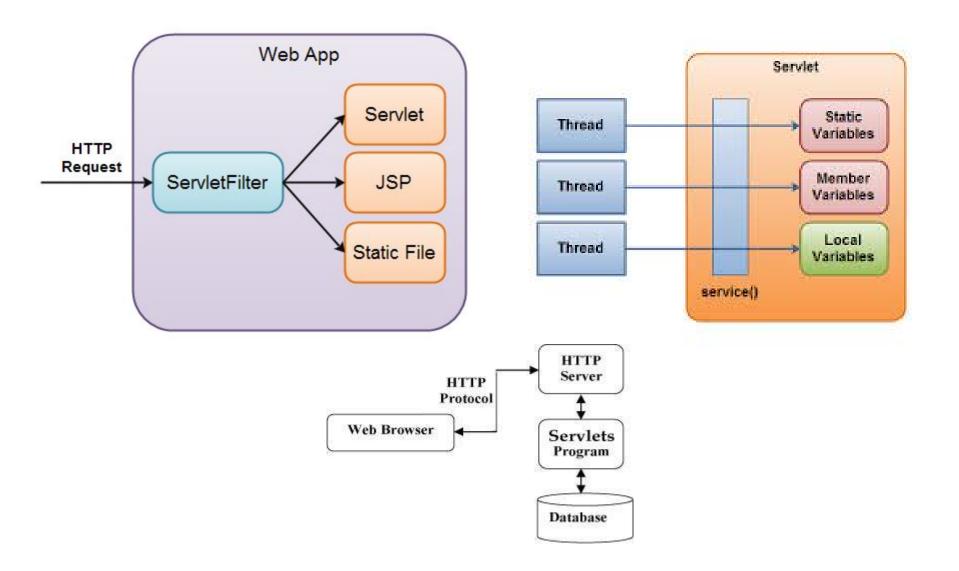
Docker images and Kubernetes



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About Servlets and Web Servers





Google Cloud Platform

IaaS



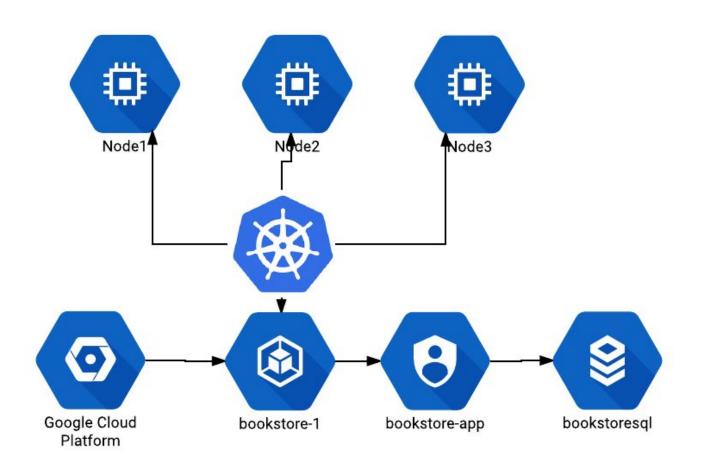
SaaS



PaaS



Architecture



Difficulties faced

- How to implement with Node.js
- How to work with the framework that propose Yeoman
- How to work with Liquidbase
- Build a Docker image that run in Kubernetes
- Understand the protocol of communication between Google Cloud Sql and Google Container Engine

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