UNIVERSIDAD POLITÉCNICA DE MADRID

ESCUELA TÉCNICA SUPERIOR DE INGENIERÍA DE SISTEMAS INFORMÁTICOS

MÁSTER EN SOFTWARE CRAFTSMANSHIP

PROYECTO FIN DE MÁSTER

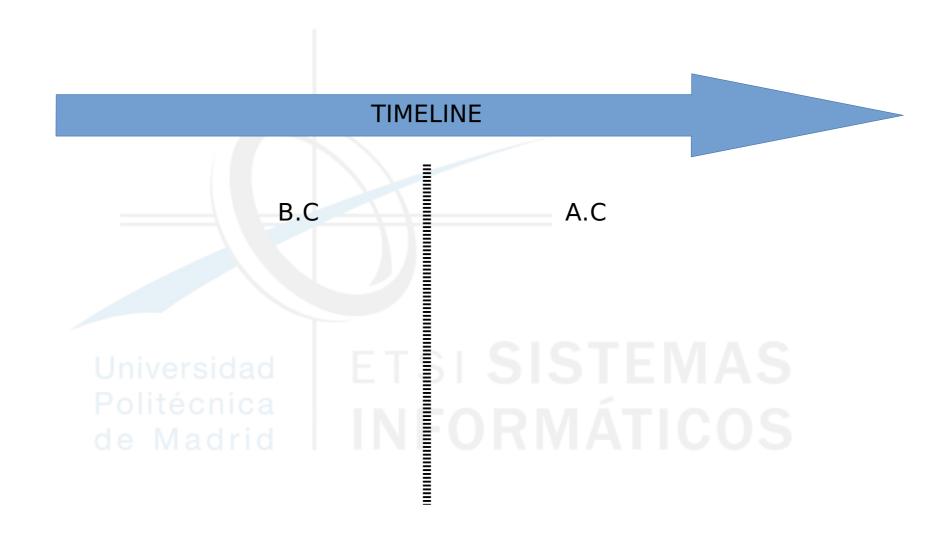
Comparativa de frameworks Java para el desarrollo de aplicaciones con arquitectura de microservicios desplegados en Kubernetes

Universidad Politécnica de Madrid

ETSI SISTEMAS INFORMÁTICOS

Jose Luis Ojosnegros Manchón *Micael Gallego Carrillo* Junio-2019

Introducción



Introducción



TIMELINE

B.C

Before Cloud



A.C

After Cloud





- Spring + default configuration
- Cloud Adaptation
- Run time proxy





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- Cloud Adaptation
- Run time proxy

- New framework
- "Natively cloud native"
- "Ahead of time compiler"



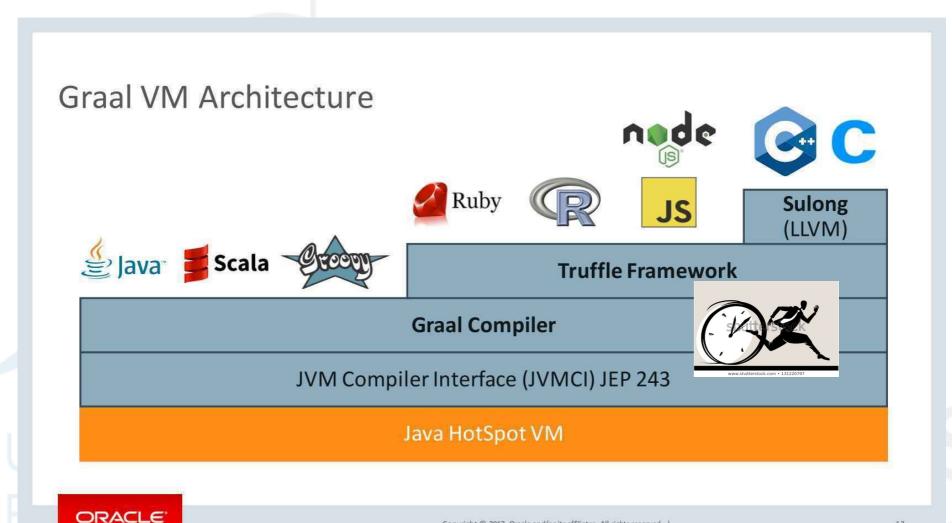


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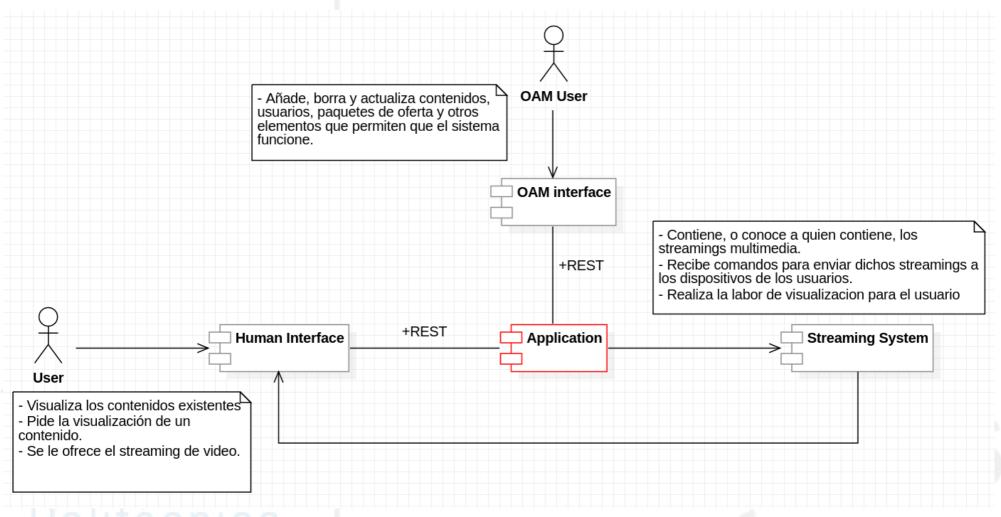
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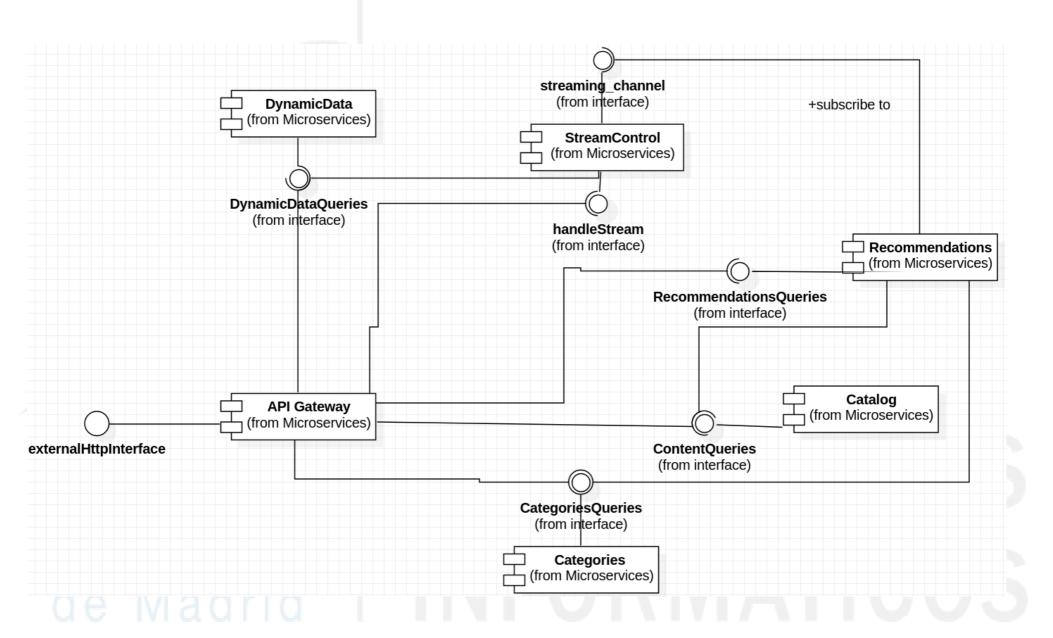
Aplicación



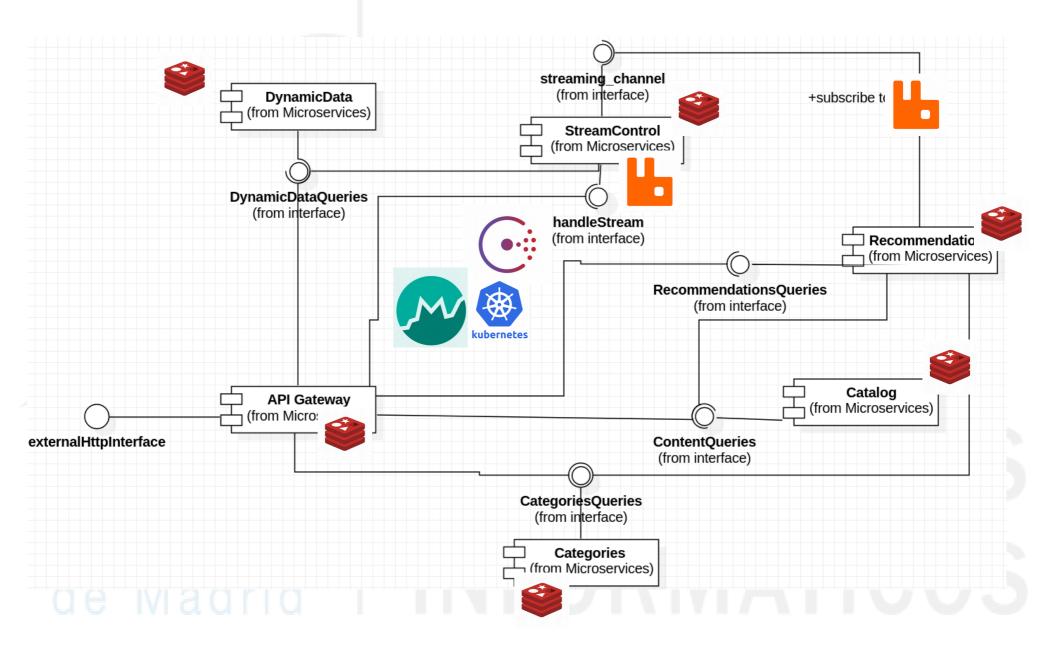
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NFORMATICOS

Aplicación



Aplicación



Características

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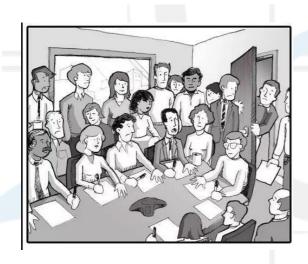


Documentación









Comunidad

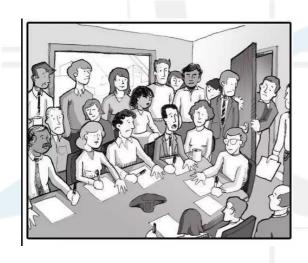


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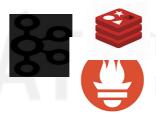
Comunidad





3pp/cloud support









Facilidad desarrollo

```
@Configuration
public class RedisConfig {
 public RedisStandaloneConfiguration redisStandaloneConfiguration() {
   RedisStandaloneConfiguration redisStandaloneConfiguration = new RedisStandaloneConfiguration();
   redisStandaloneConfiguration.setHostName("recommendations-db");
   redisStandaloneConfiguration.setPort(6379);
    redisStandaloneConfiguration.setPassword(RedisPassword.of("recommendations-passwd"));
   return redisStandaloneConfiguration;
 public LettuceConnectionFactory jedisConnectionFactory(RedisStandaloneConfiguration configuration) {
   return new LettuceConnectionFactory(configuration);
 @ConditionalOnMissingBean(name = "redisTemplate")
 public RedisTemplate<String,Object> redisTemplate(RedisConnectionFactory factory) {
   final RedisTemplate<String,Object> template = new RedisTemplate<>();
   template.setConnectionFactory(factory);
   template.setValueSerializer(new GenericJackson2JsonRedisSerializer());
    return template;
```

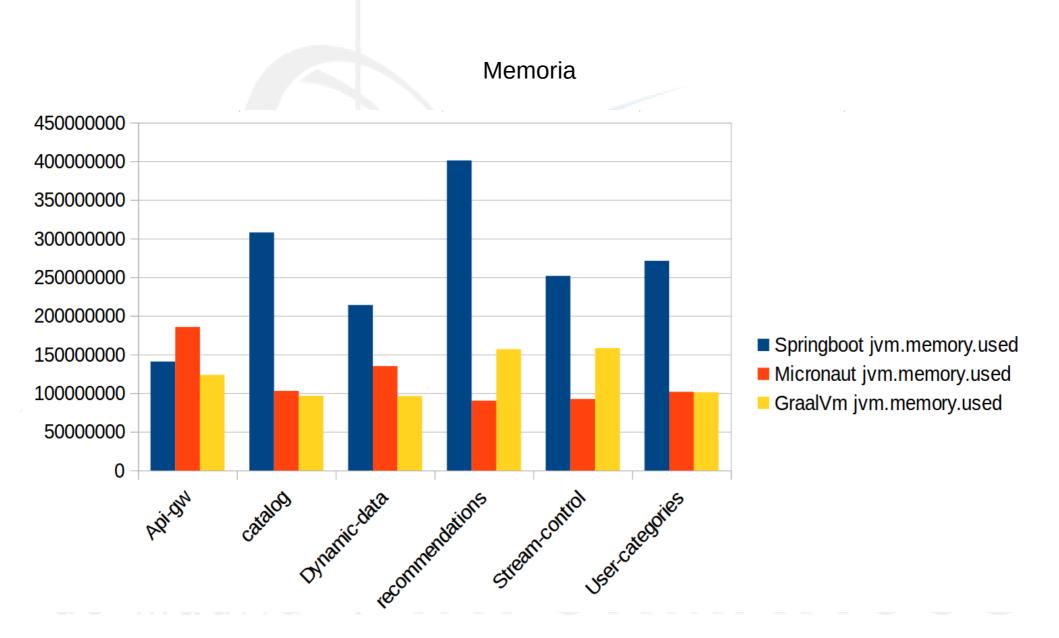


Performance

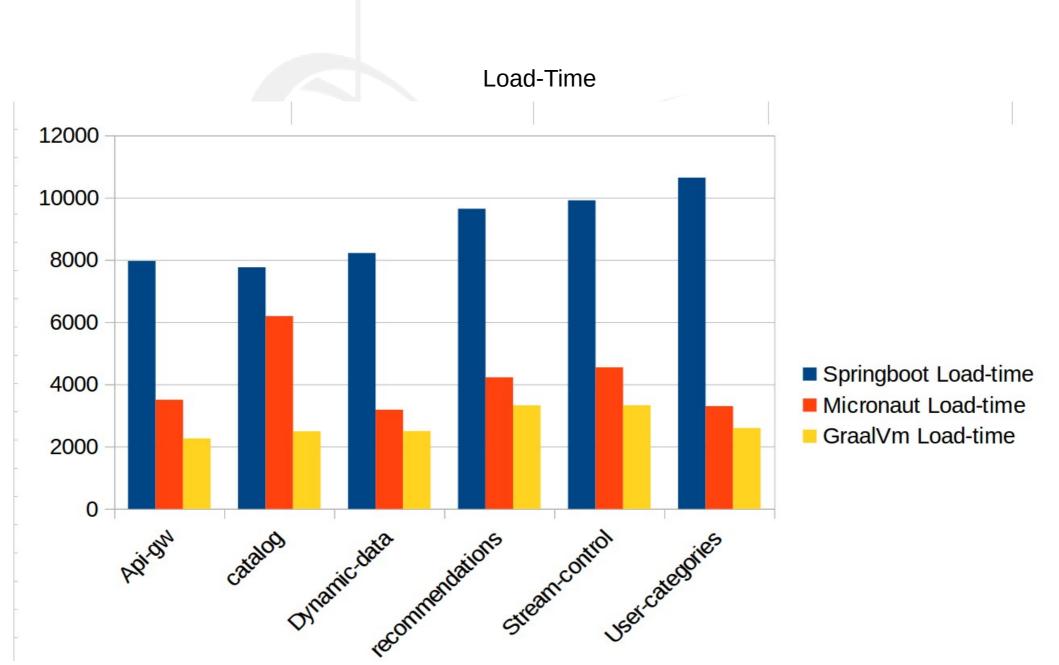
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Performance



Performance



Conclusiones



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