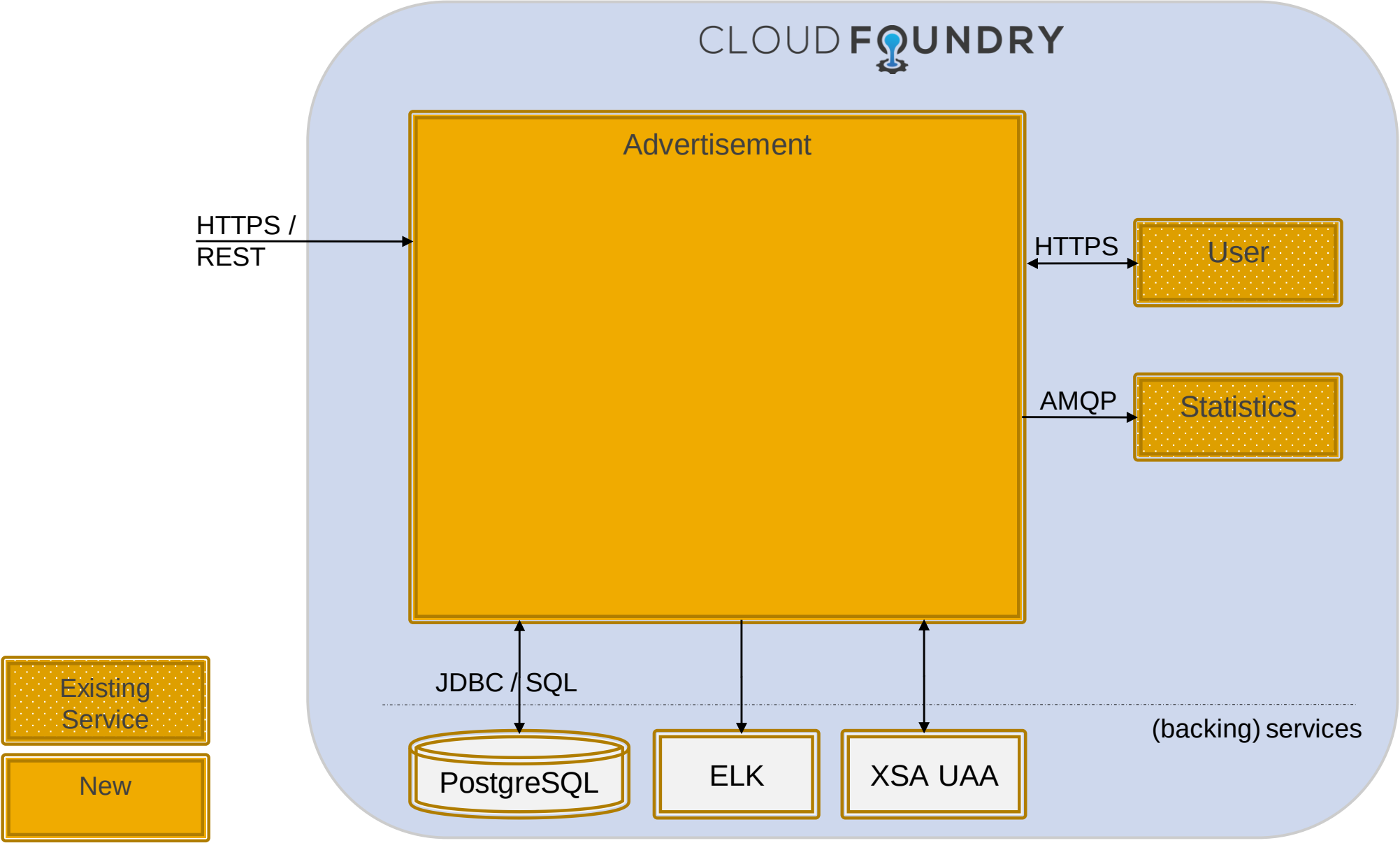
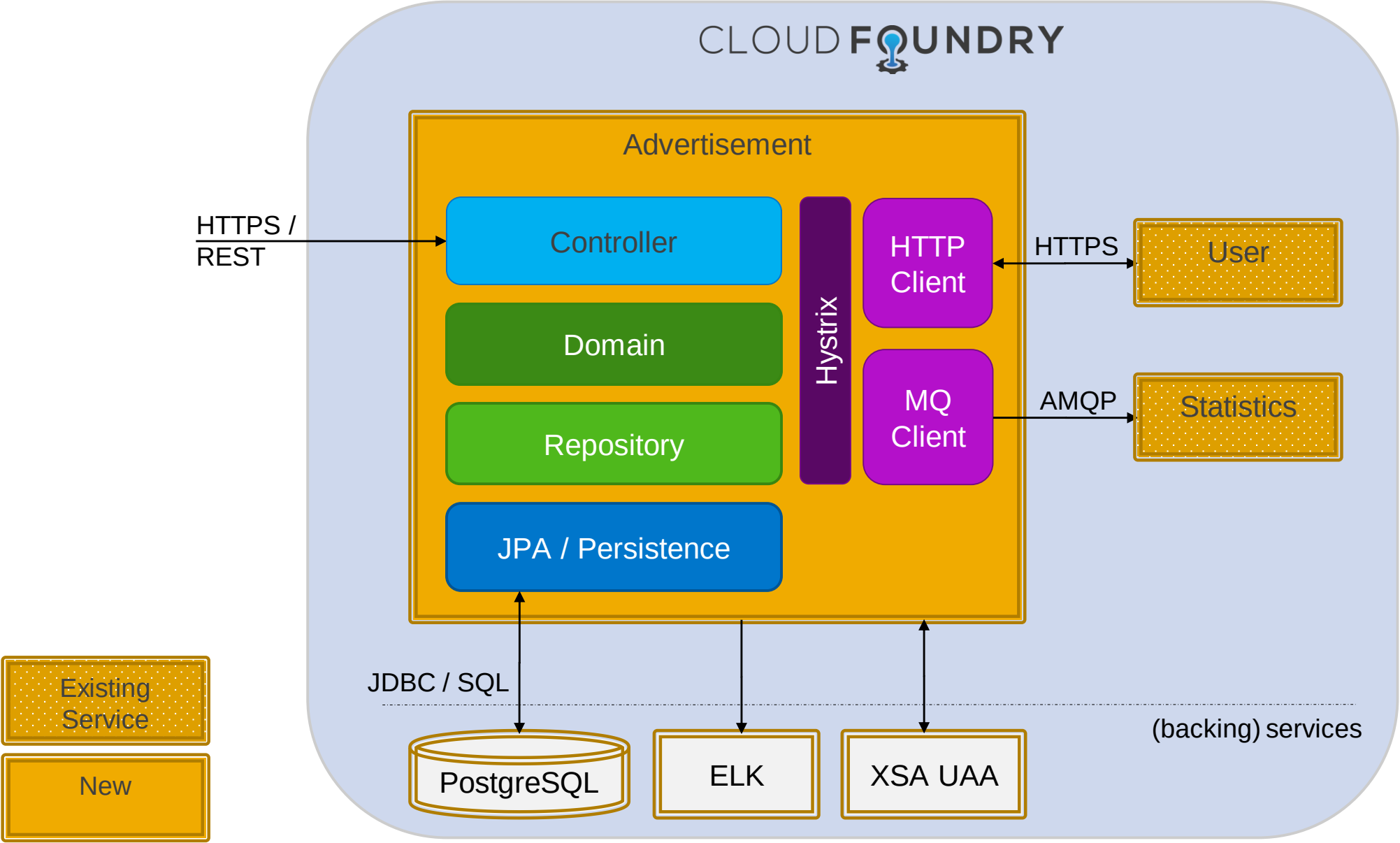
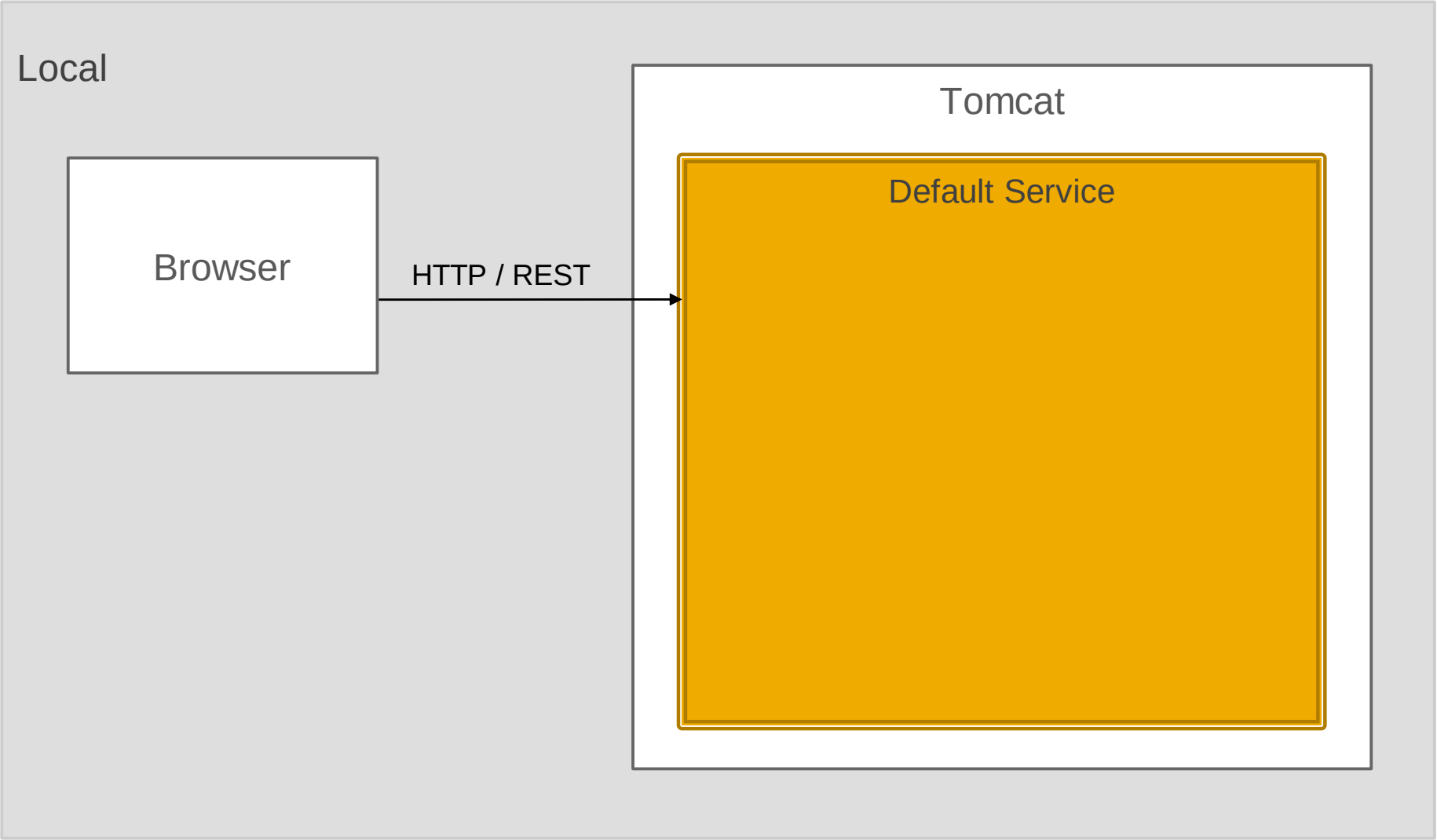
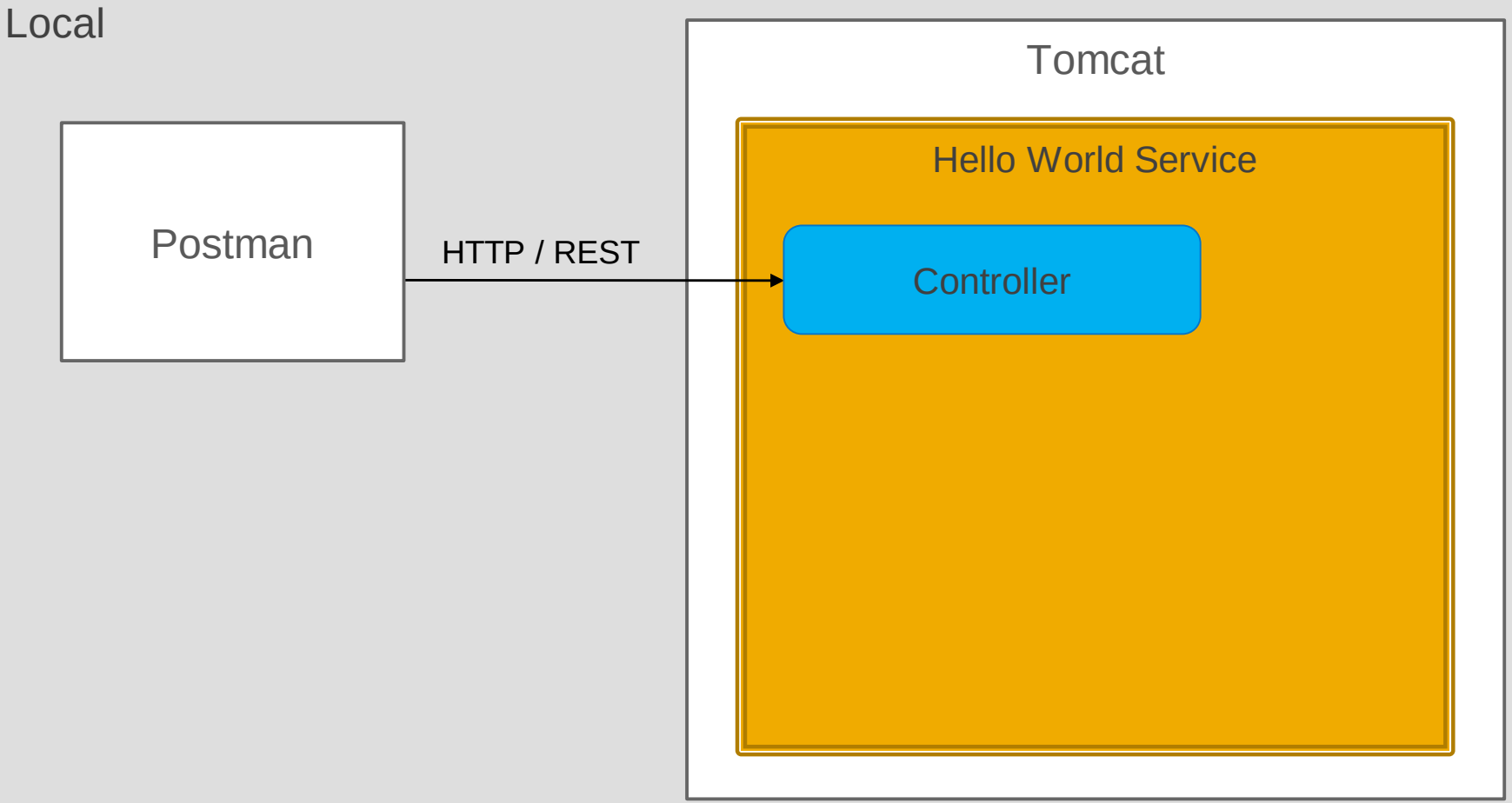
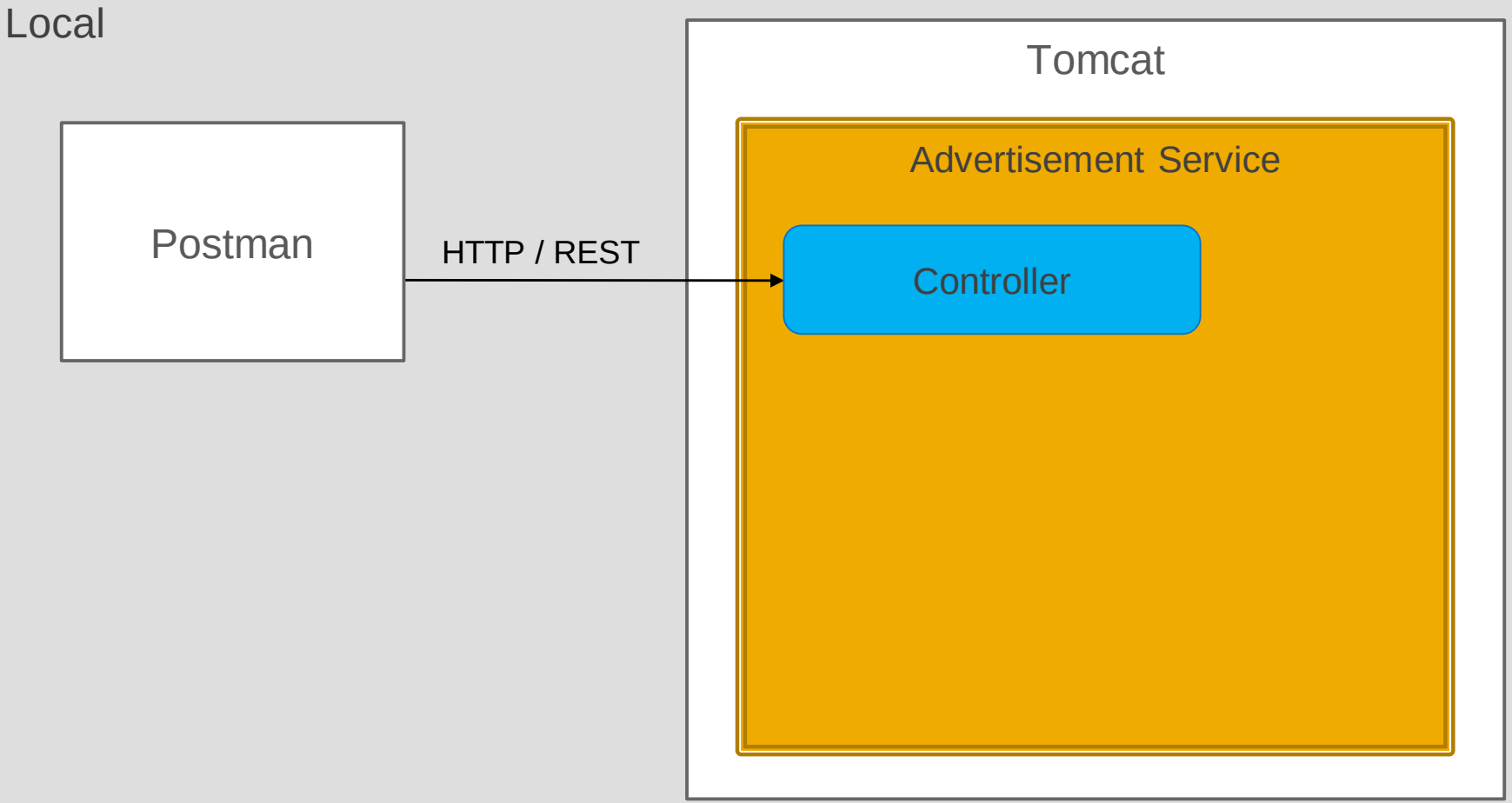
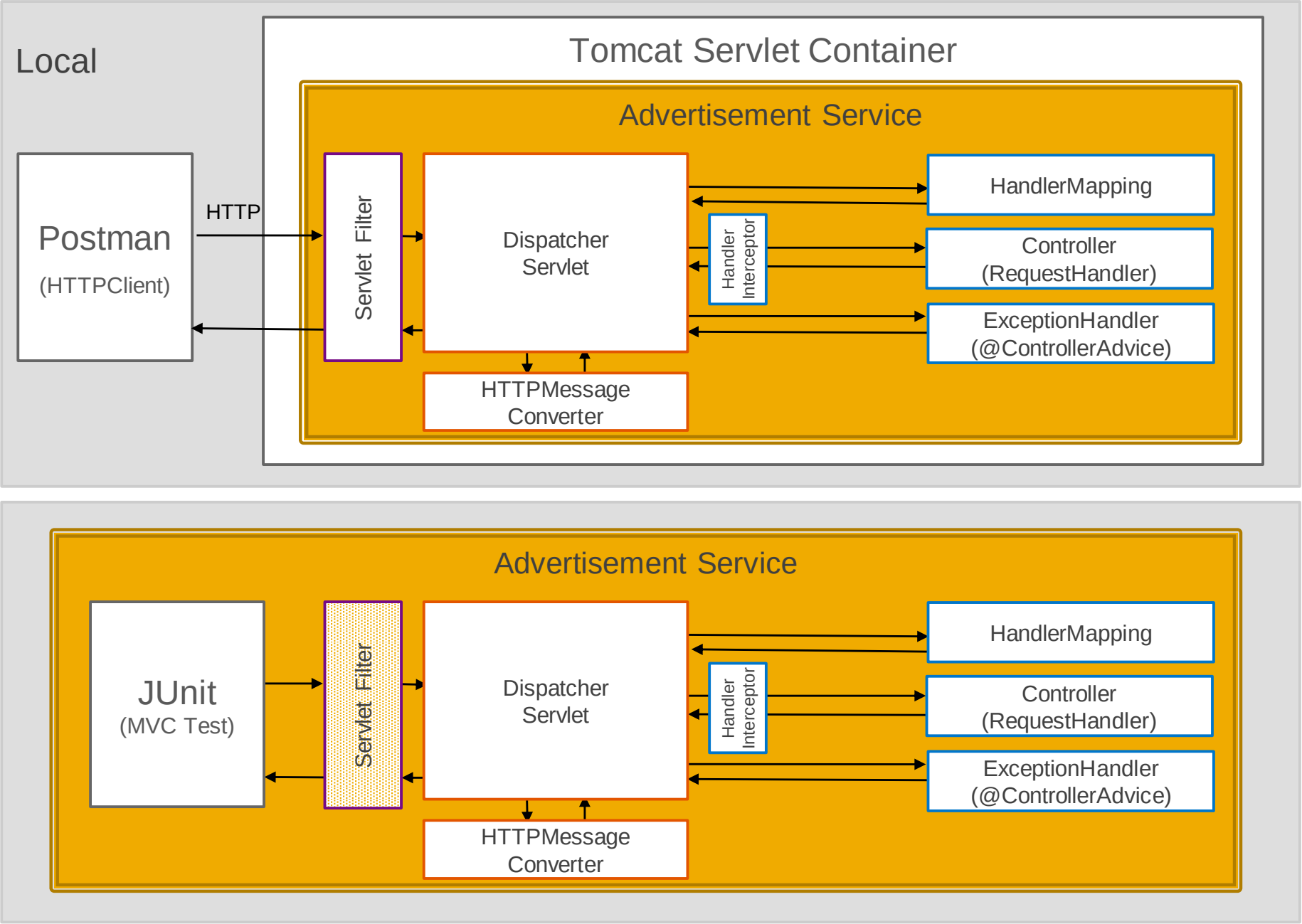

CLOUD FOUNDRY
Advertisement
HTTPS /
REST
HTTPS
User
AMQP
Statistics
JDBC / SQL
(backing) services
PostgreSQL
ELK
XSA UAA
Existing
Service
New

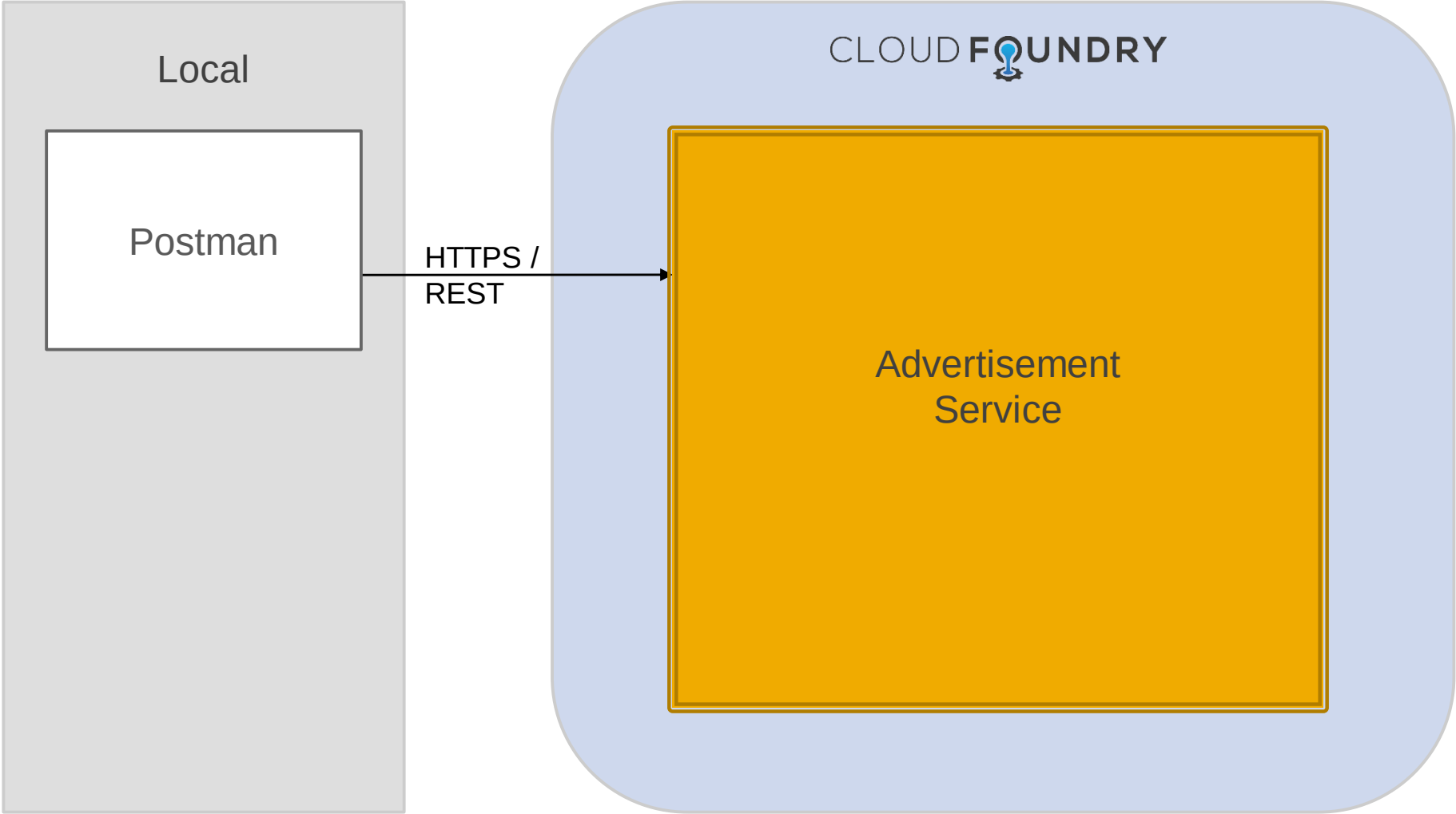

CLOUD FOUNDRY
Advertisement
Controller
Domain
Repository
JPA / Persistence
Hystrix
HTTP Client
MQ Client
HTTPS / REST
HTTPS
User
AMQP
Statistics
JDBC / SQL
(backing) services
PostgreSQL
ELK
XSA UAA
Existing Service
New

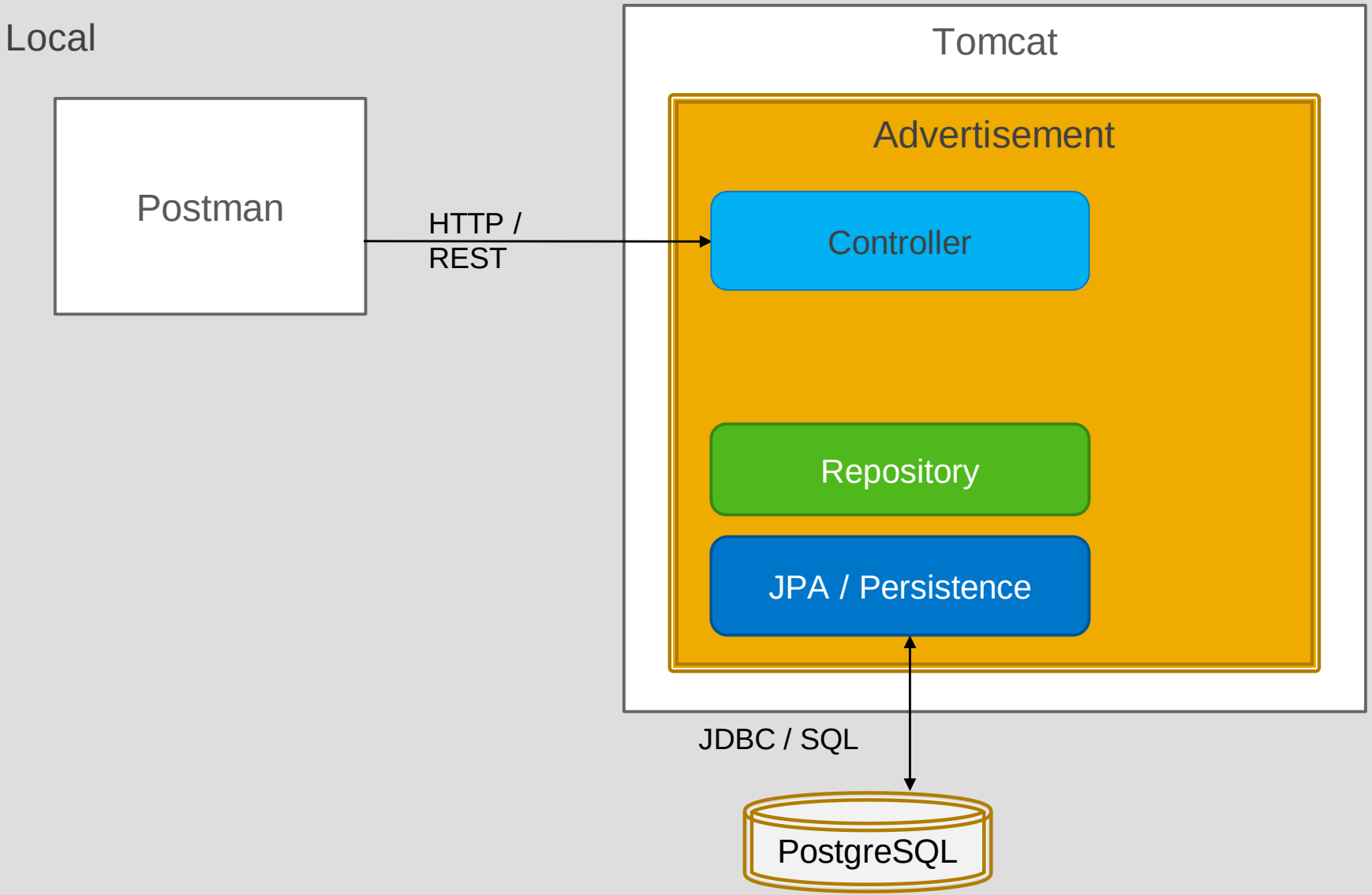

Local
Tomcat
Default Service
Browser
HTTP / REST

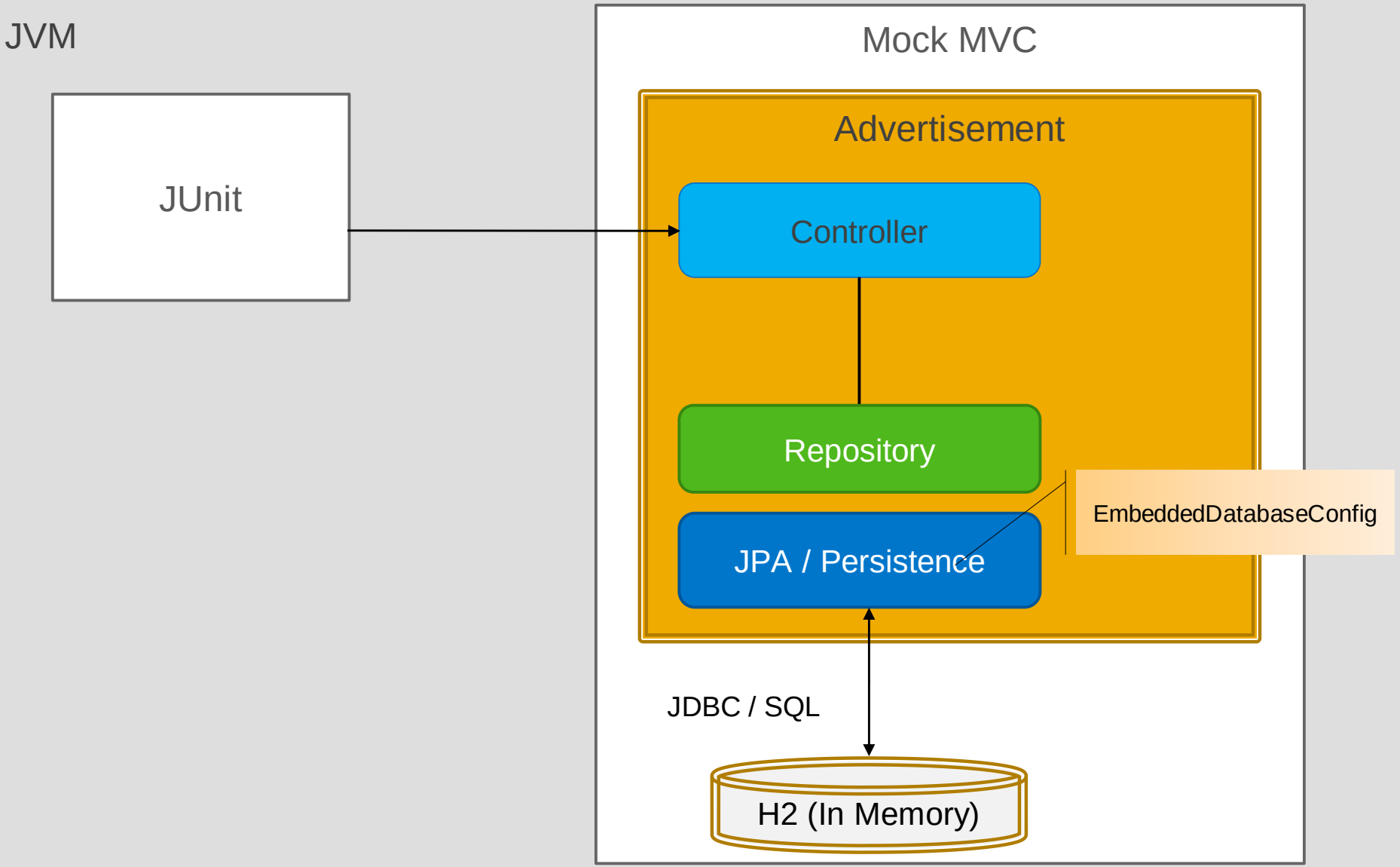

Local
Tomcat
Hello World Service
Postman
HTTP / REST
Controller

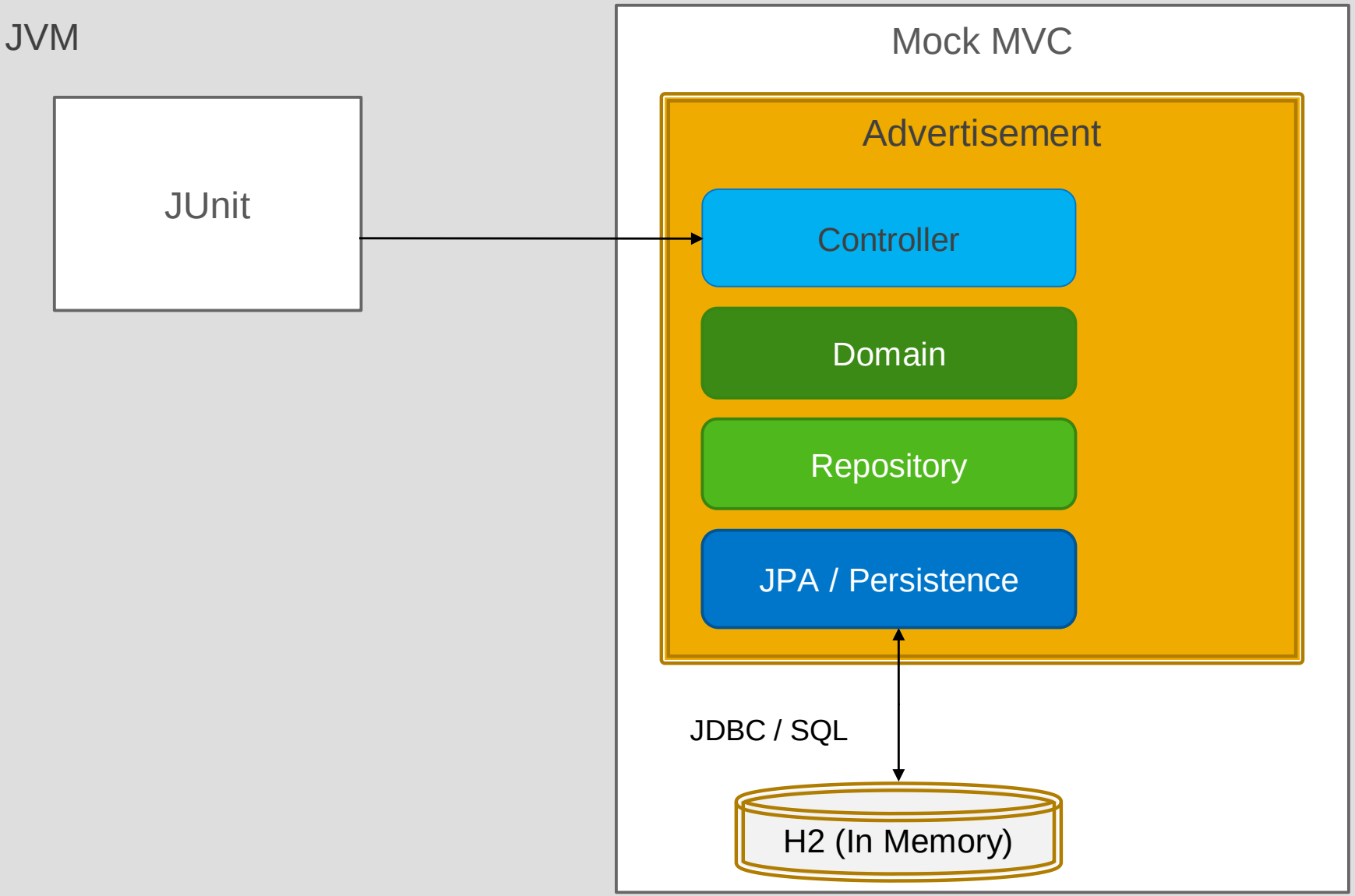

Local
Tomcat
Advertisement Service
Postman
HTTP / REST
Controller

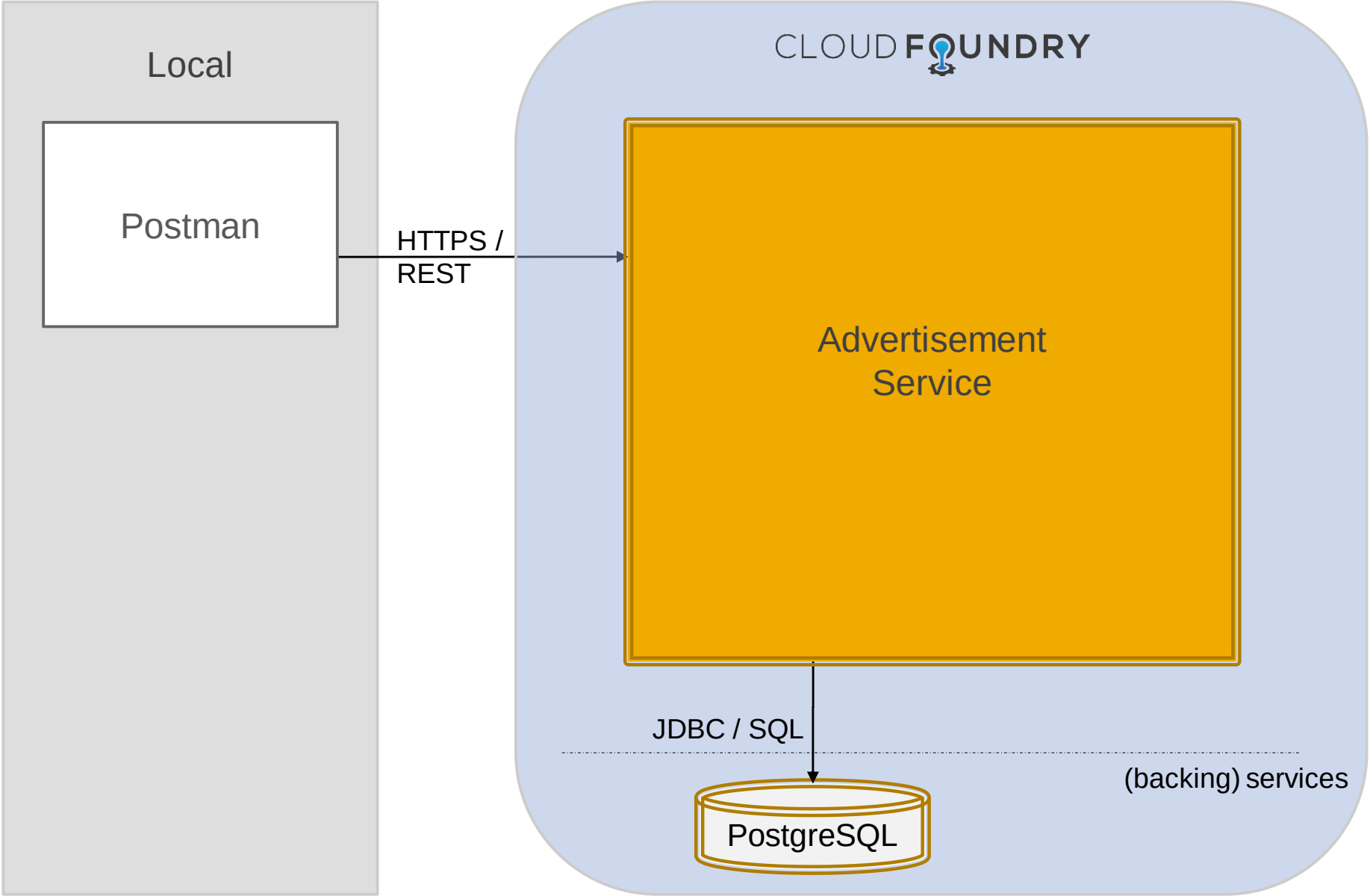

Local
Tomcat Servlet Container
Advertisement Service
Postman
(HTTPClient)
HTTP
Servlet Filter
Dispatcher
Servlet
Handler
Interceptor
HandlerMapping
Controller
(RequestHandler)
ExceptionHandler
(@ControllerAdvice)
HTTPMessage
Converter
Advertisement Service
JUnit
(MVC Test)
Servlet Filter
Dispatcher
Servlet
Handler
Interceptor
HandlerMapping
Controller
(RequestHandler)
ExceptionHandler
(@ControllerAdvice)
HTTPMessage
Converter

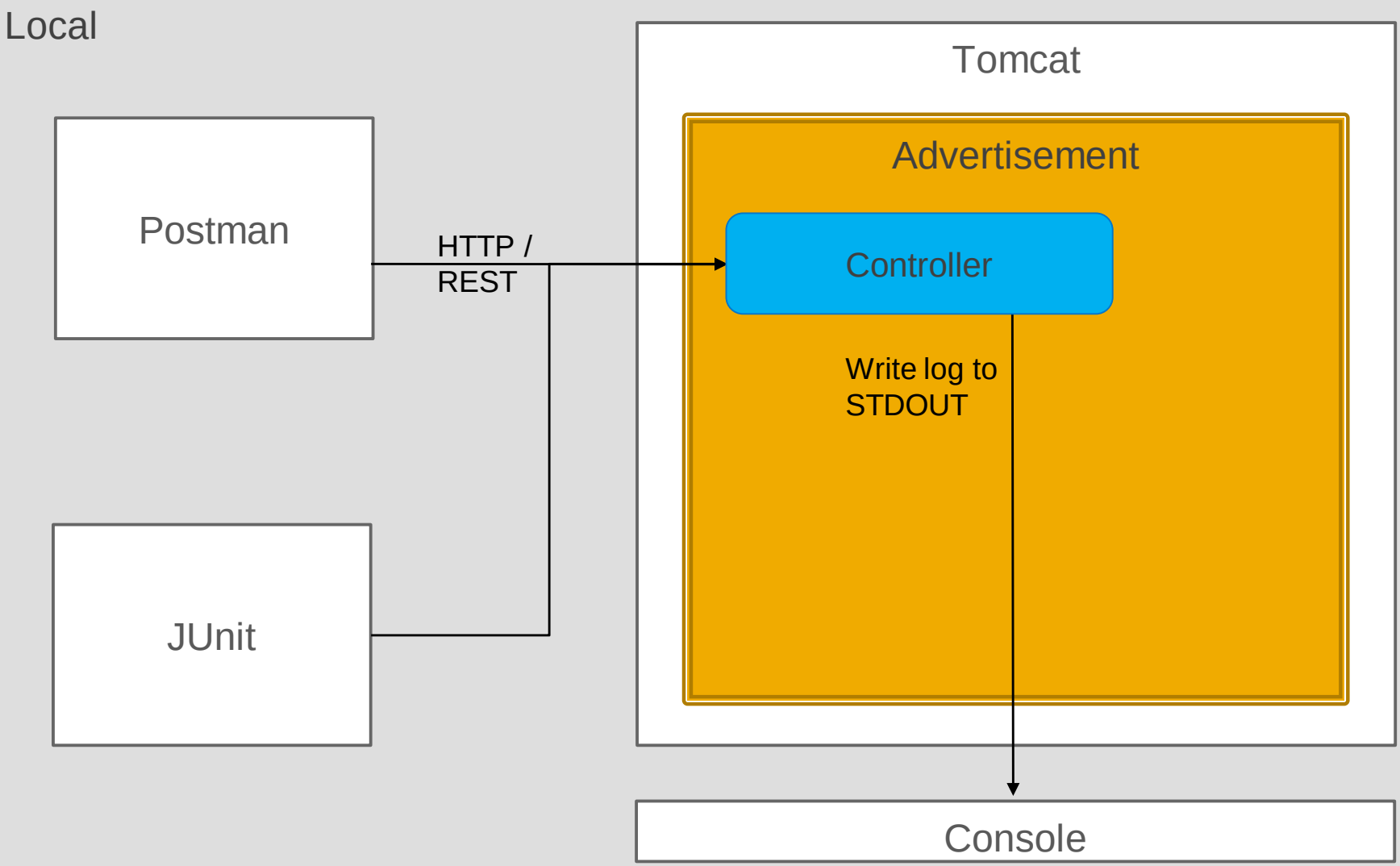

Local
Postman
HTTPS /
REST
CLOUD FOUNDRY
Advertisement
Service

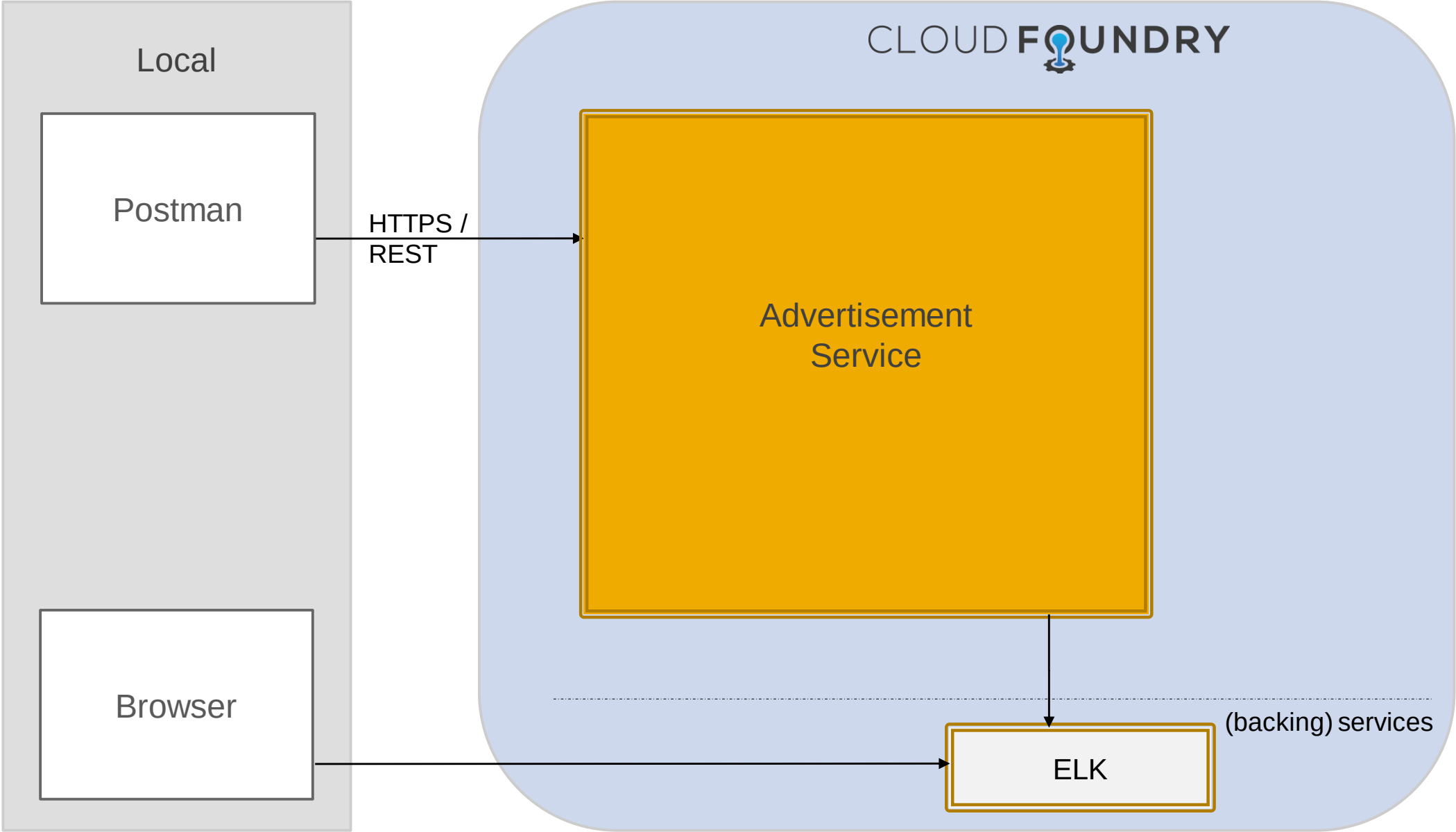

Local
Tomcat
Postman
HTTP /
REST
Advertisement
Controller
Repository
JPA / Persistence
JDBC / SQL
PostgreSQL

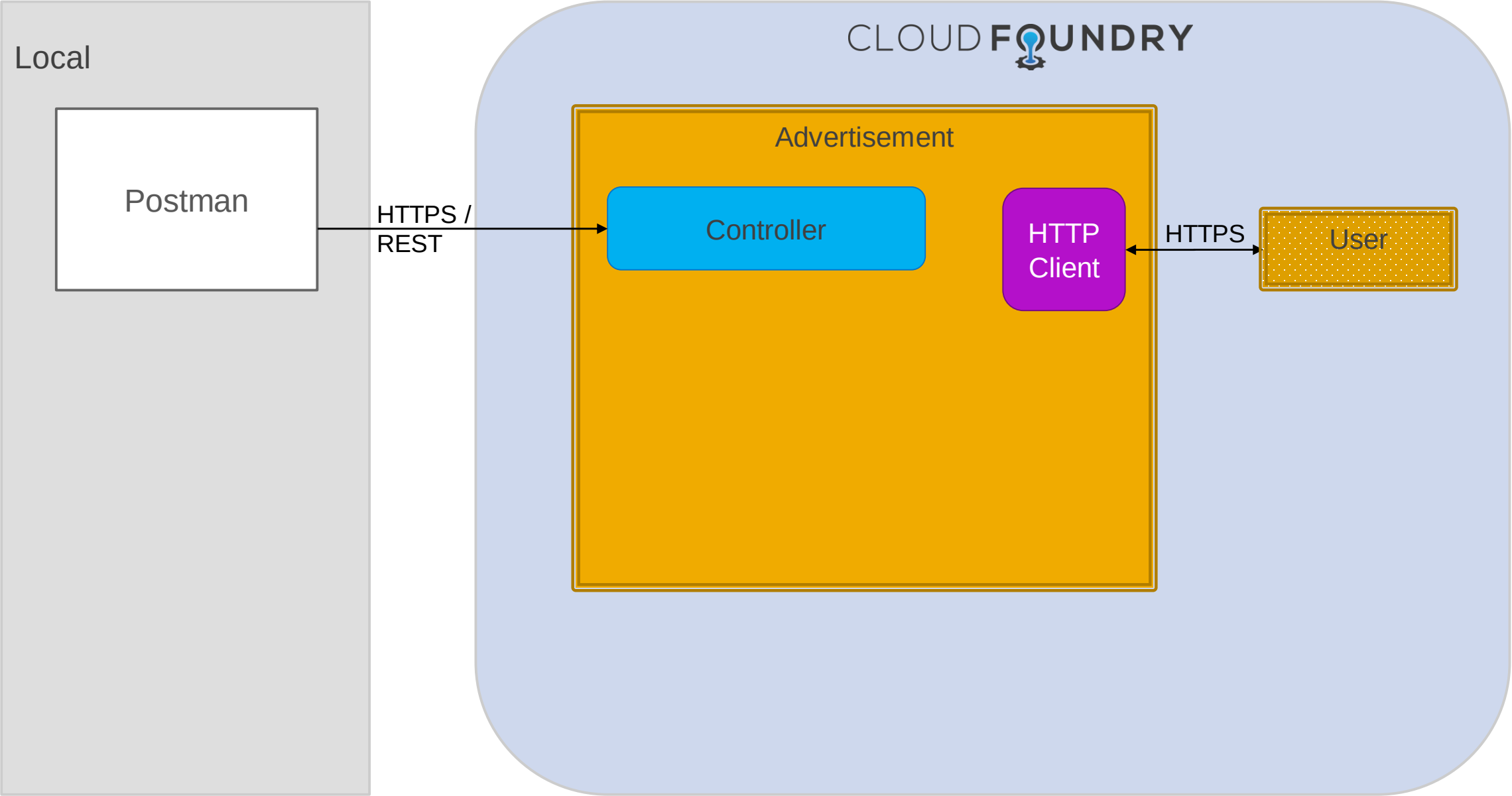

JVM
Mock MVC
JUnit
Advertisement
Controller
Repository
JPA / Persistence
EmbeddedDatabaseConfig
JDBC / SQL
H2 (In Memory)

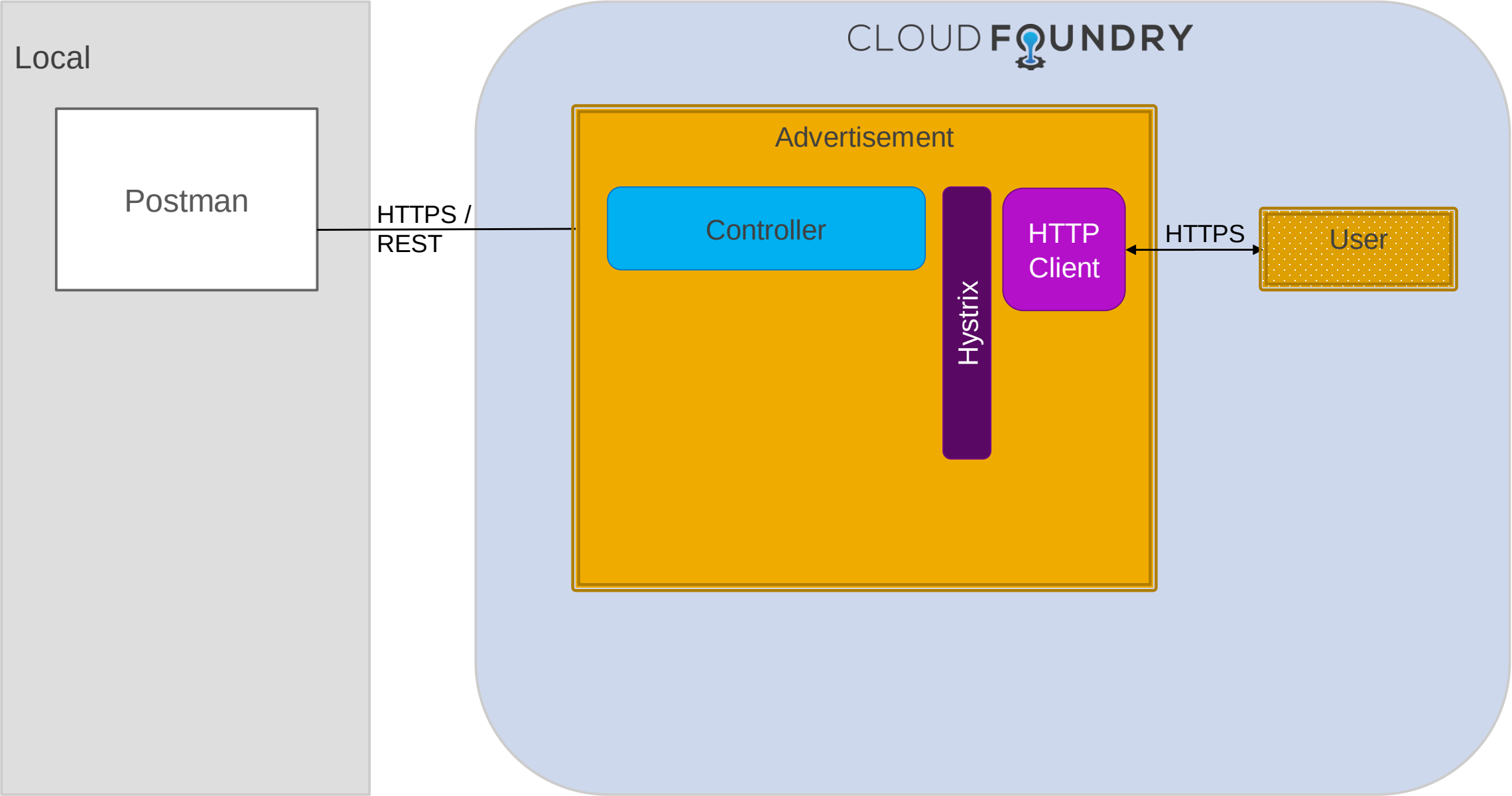

JVM
Mock MVC
JUnit
Advertisement
Controller
Domain
Repository
JPA / Persistence
JDBC / SQL
H2 (In Memory)

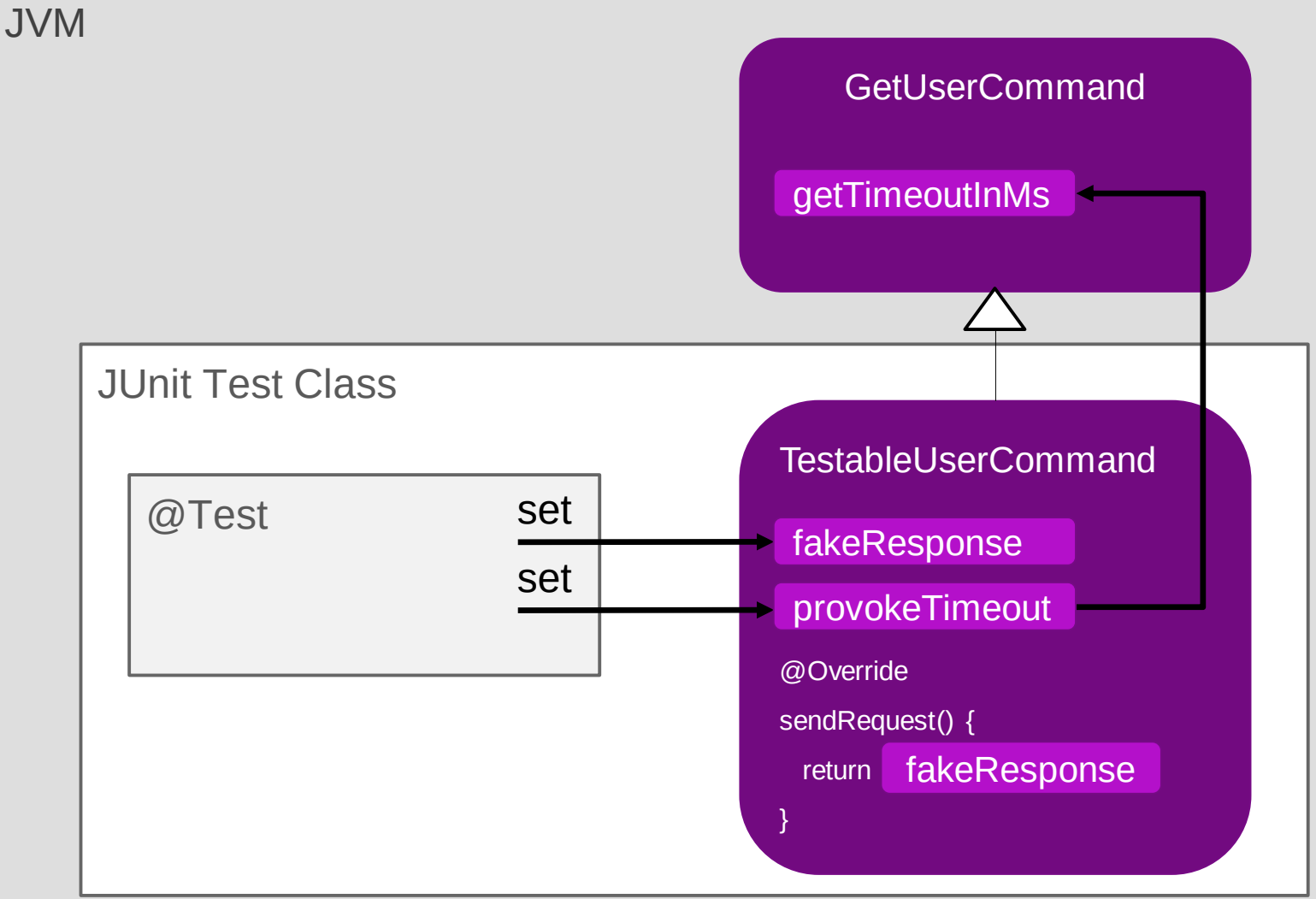

Local
Postman
HTTPS /
REST
CLOUD FOUNDRY
Advertisement
Service
JDBC / SQL
(backing) services
PostgreSQL

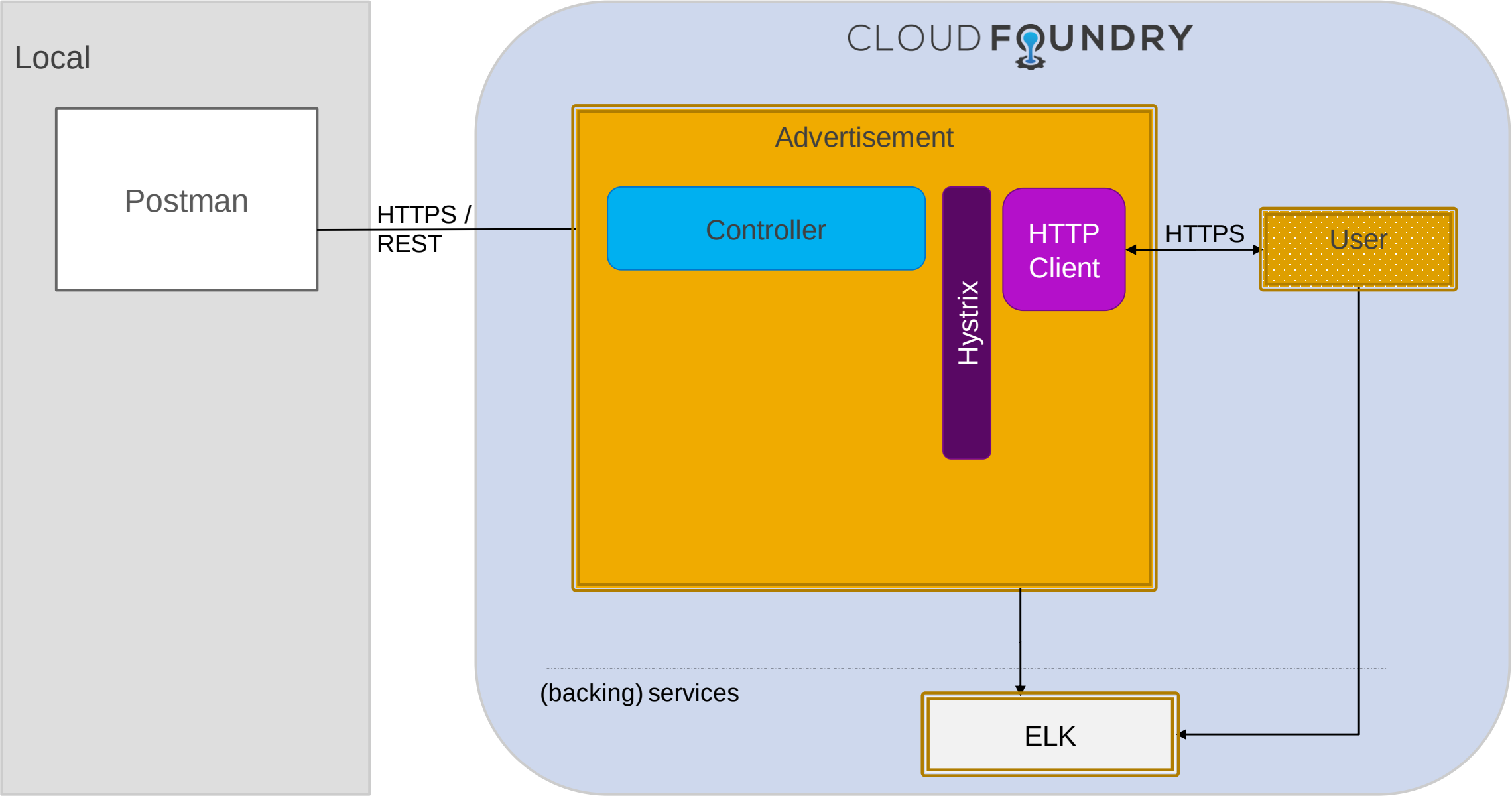

Local
Tomcat
Advertisement
Postman
HTTP /
REST
Controller
Write log to
STDOUT
JUnit
Console

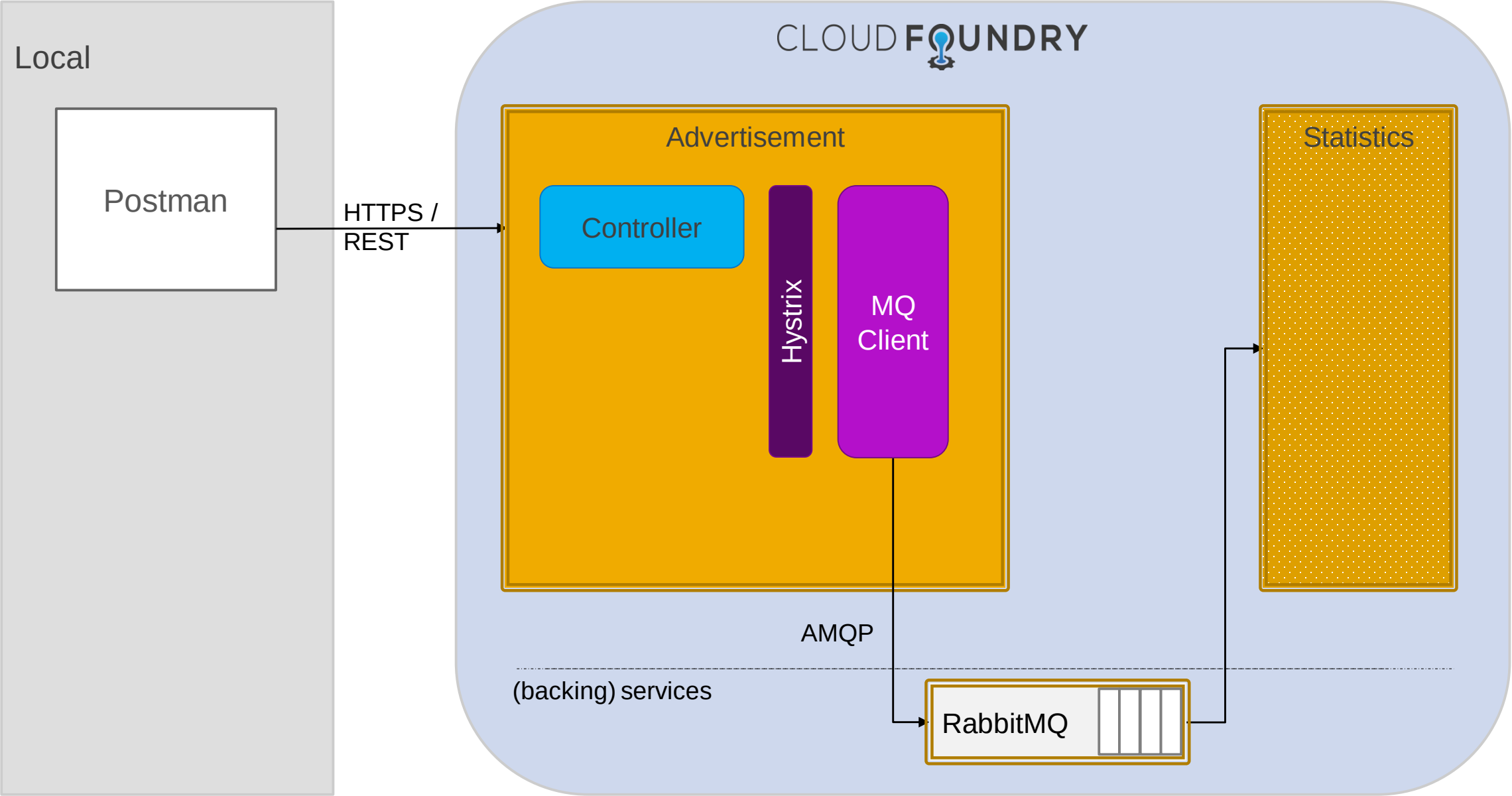

Local
Postman
Browser
HTTPS /
REST
CLOUD FOUNDRY
Advertisement
Service
(backing) services
ELK

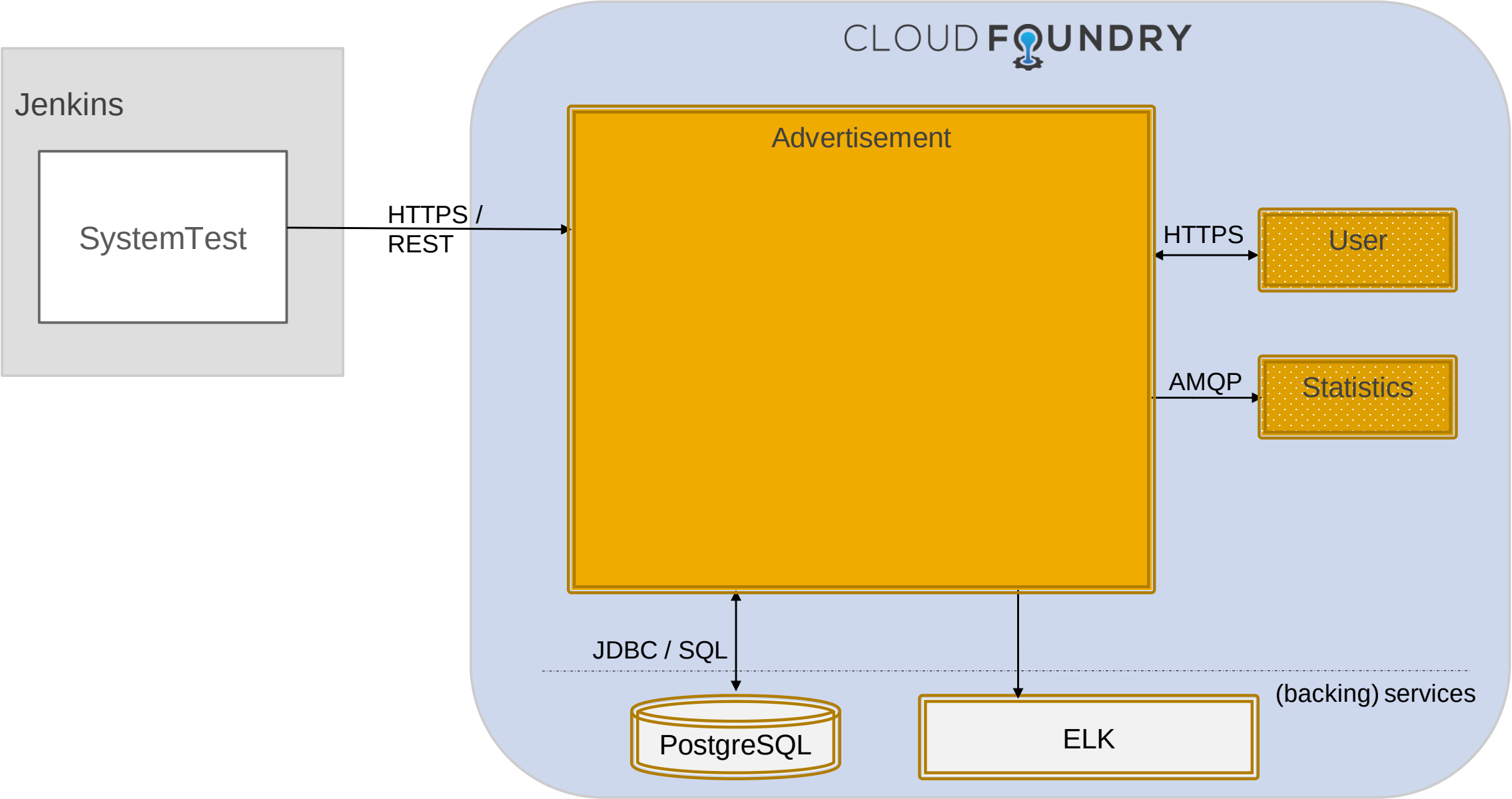

Local
Postman
HTTPS /
REST
CLOUD FOUNDRY
Advertisement
Controller
HTTP
Client
HTTPS
User

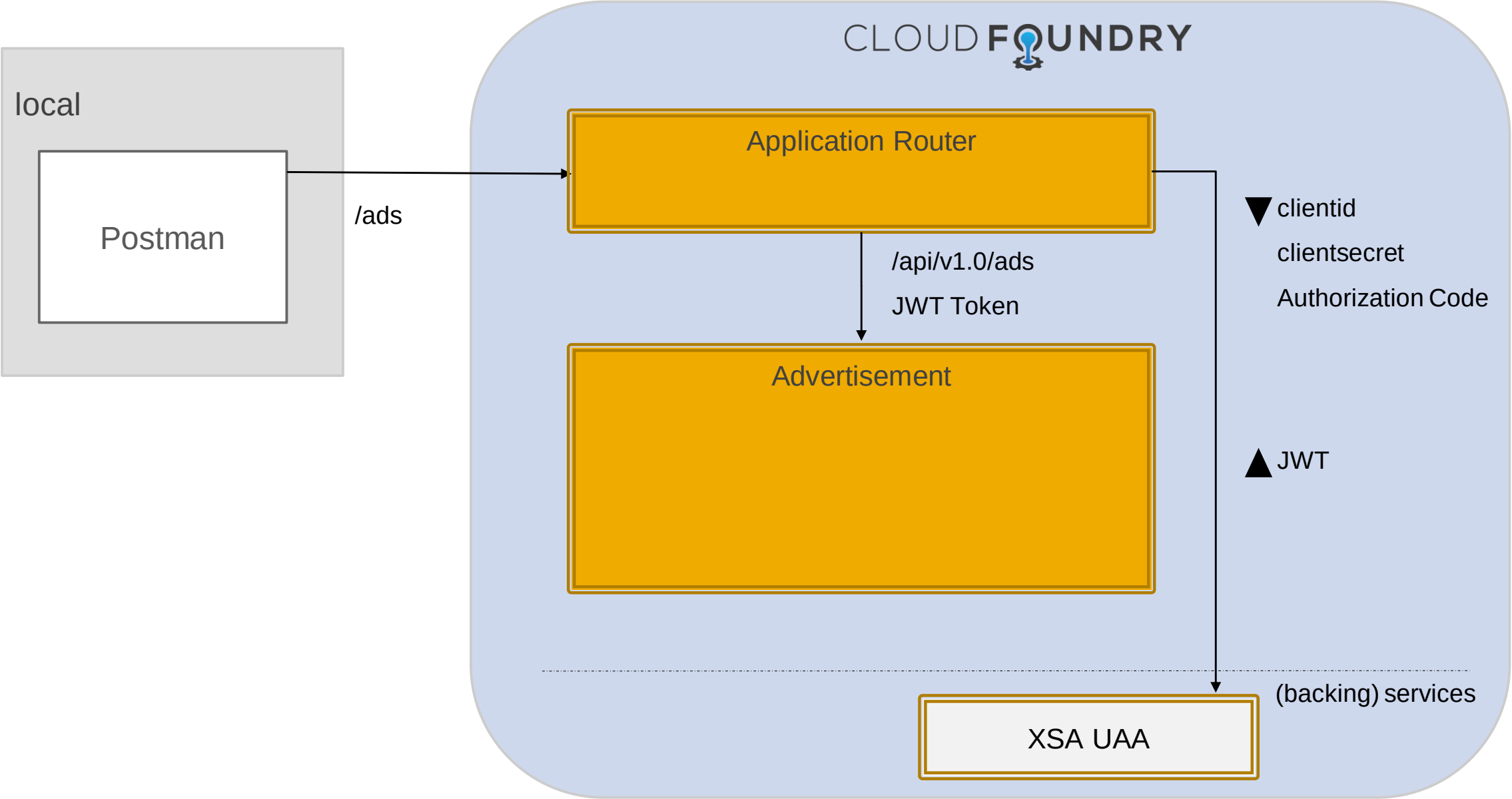

Local
Postman
HTTPS /
REST
CLOUD FOUNDRY
Advertisement
Controller
Hystrix
HTTP
Client
HTTPS
User

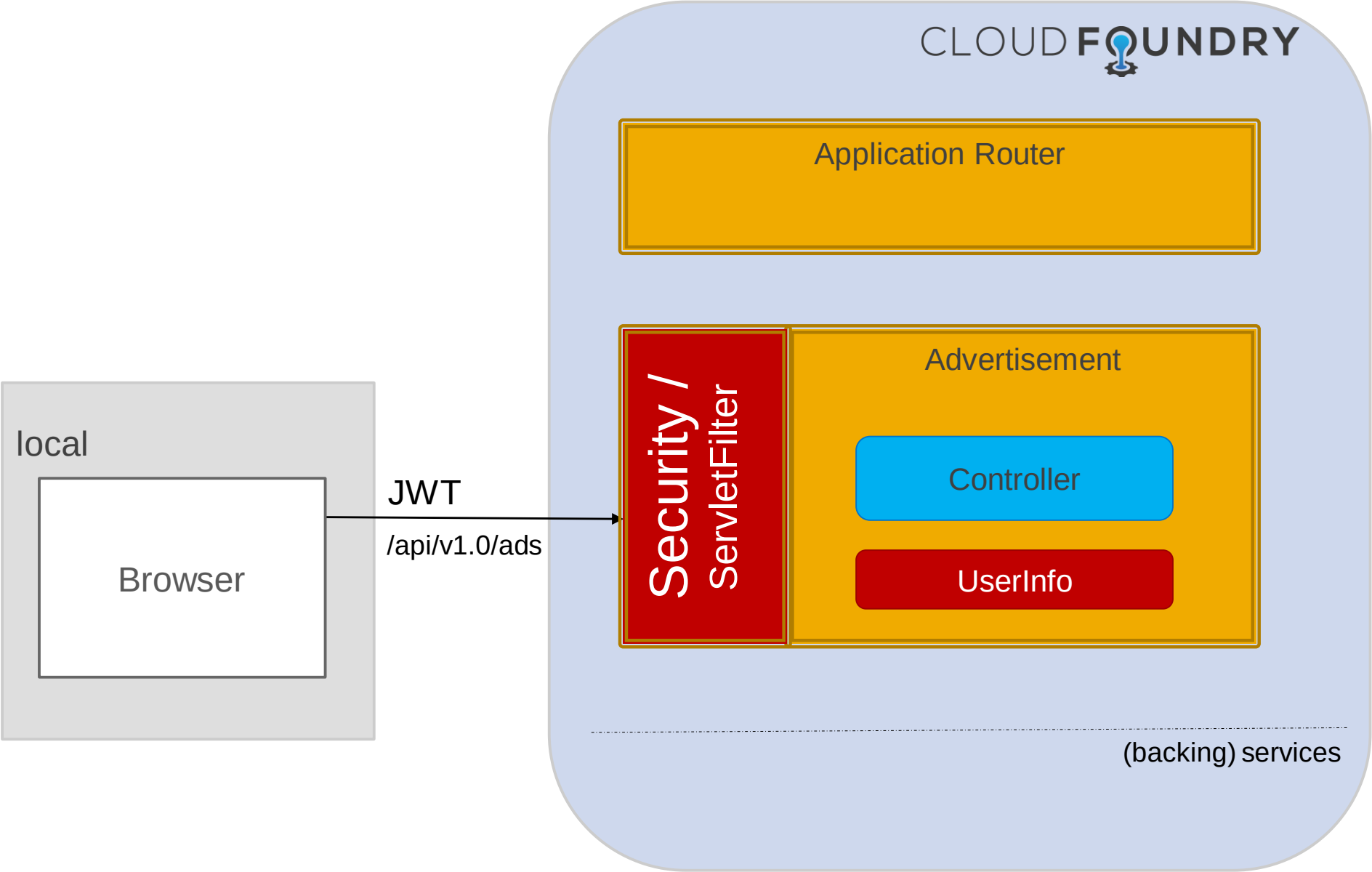

JVM
GetUserCommand
getTimeoutInMs
JUnit Test Class
TestableUserCommand
@Test
set
set
fakeResponse
provokeTimeout
@Override
sendRequest() {
return
fakeResponse
}

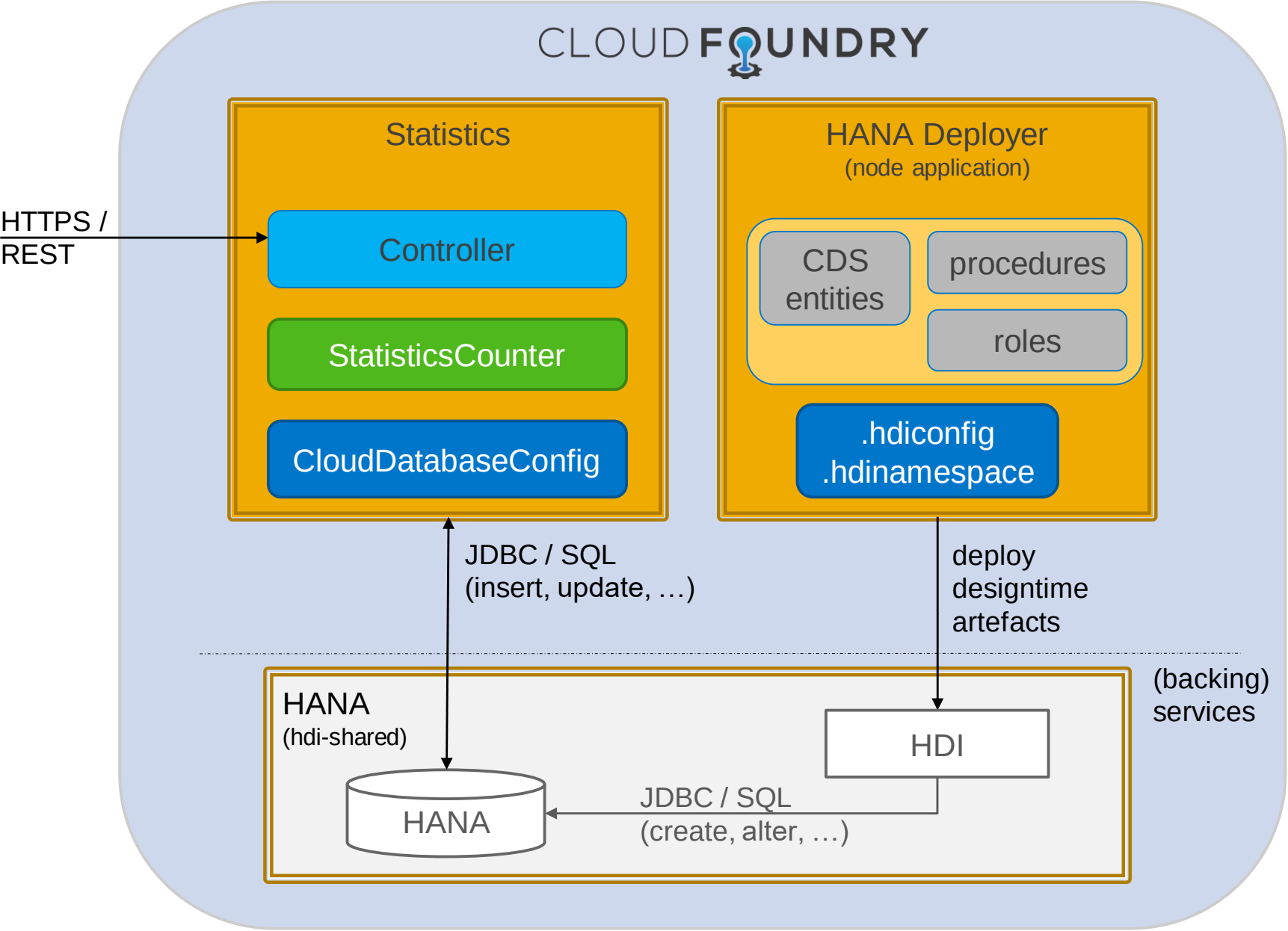

Local
Postman
HTTPS /
REST
CLOUD FOUNDRY
Advertisement
Controller
Hystrix
HTTP
Client
HTTPS
User
(backing) services
ELK

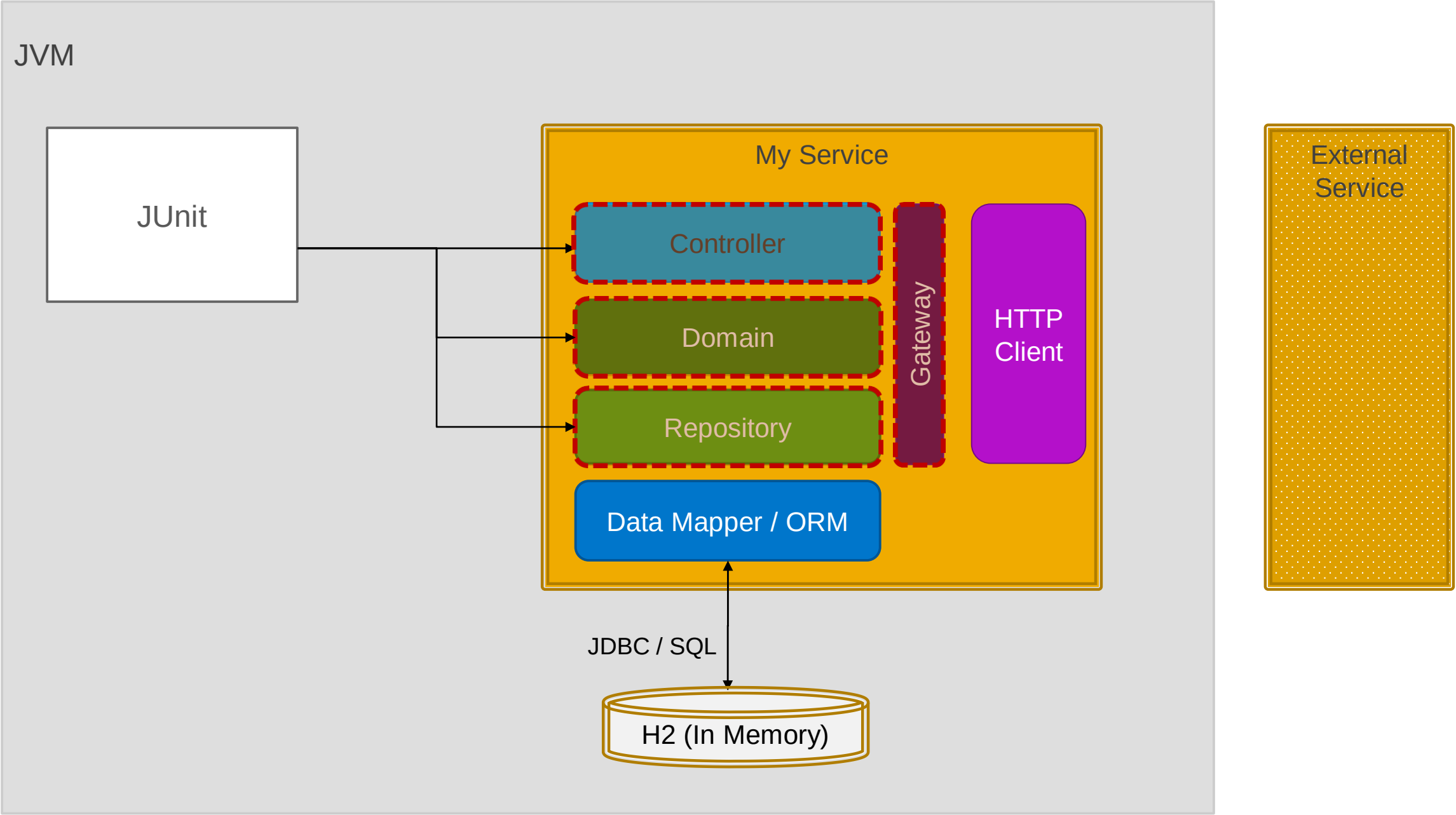

Local
Postman
HTTPS /
REST
CLOUD FOUNDRY
Advertisement
Controller
Hystrix
MQ
Client
Statistics
AMQP
(backing) services
RabbitMQ

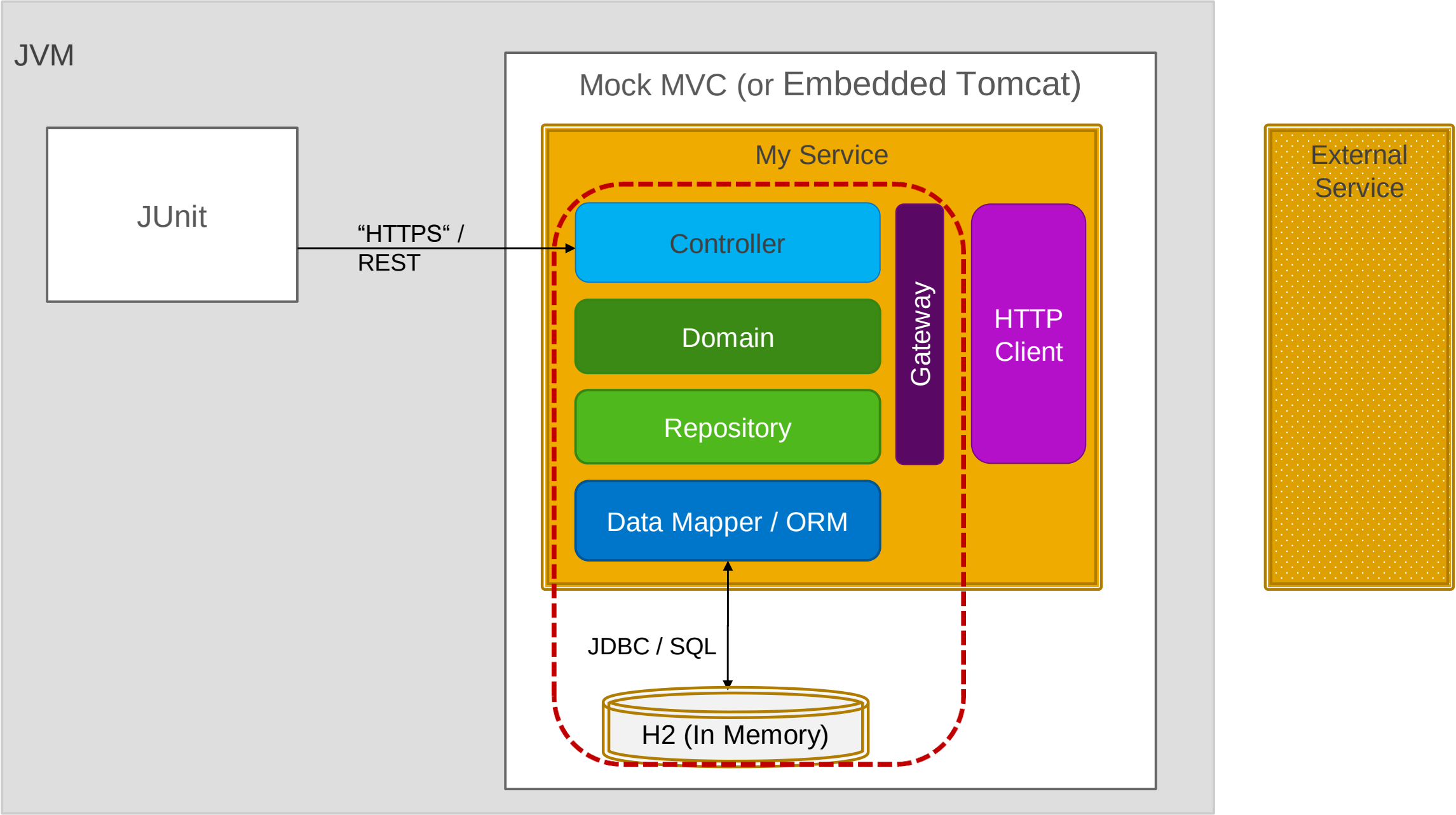

CLOUD FOUNDRY
Jenkins
SystemTest
HTTPS /
REST
Advertisement
HTTPS
User
AMQP
Statistics
JDBC / SQL
(backing) services
PostgreSQL
ELK

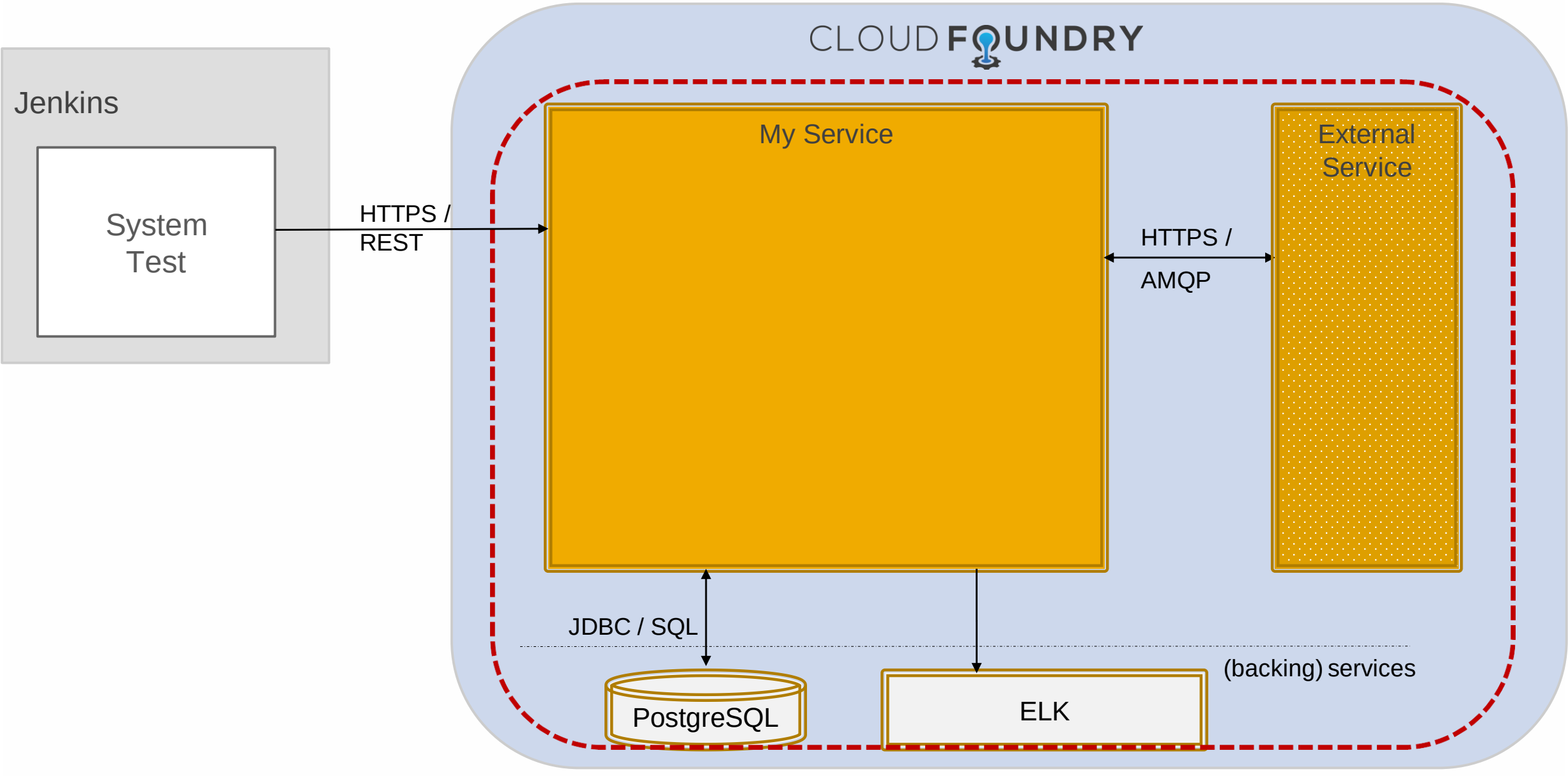

local
Postman
/ads
CLOUD FOUNDRY
Application Router
/api/v1.0/ads
JWT Token
Advertisement
clientid
clientsecret
Authorization Code
JWT
(backing) services
XSA UAA

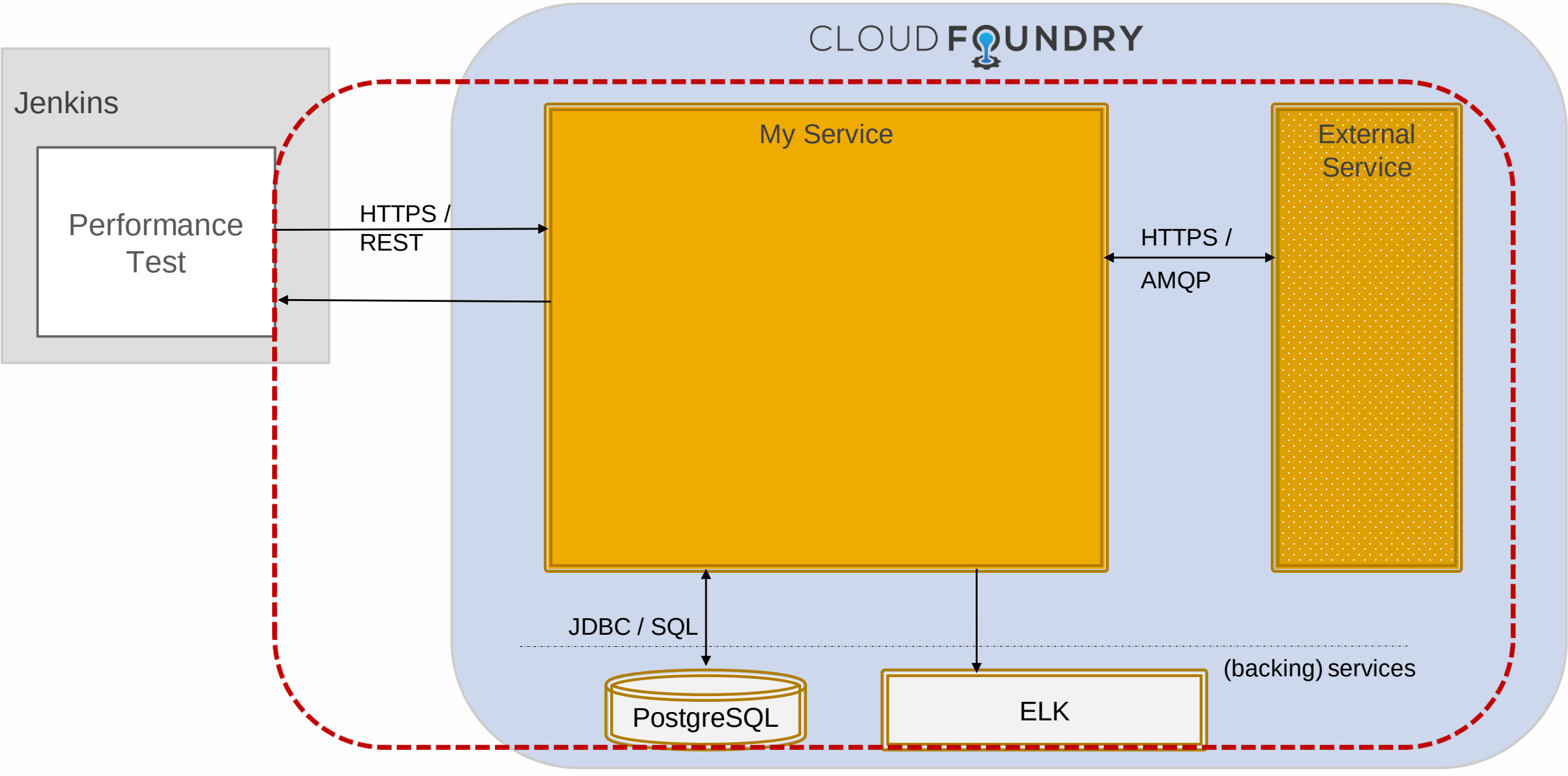

CLOUD FOUNDRY
Application Router
Advertisement
Security /
ServletFilter
Controller
UserInfo
local
Browser
JWT
/api/v1.0/ads
(backing) services

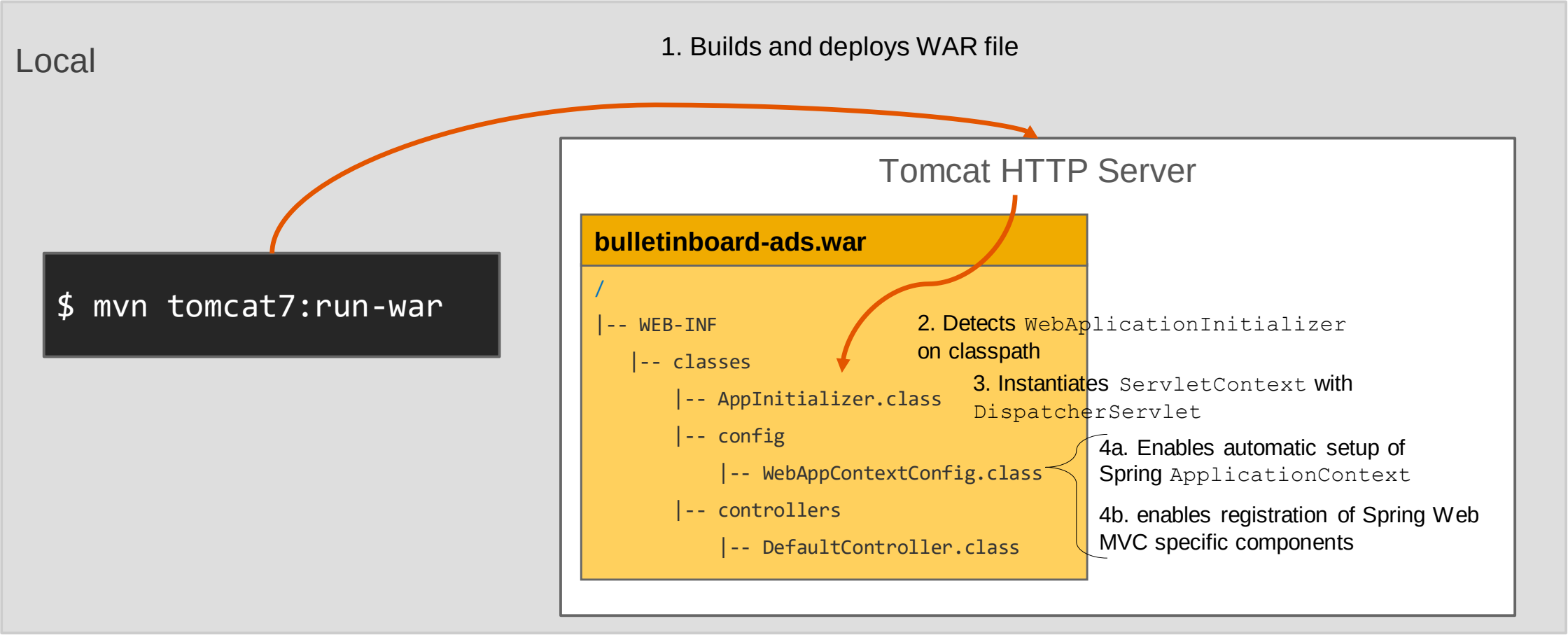

CLOUD FOUNDRY
Statistics
Controller
StatisticsCounter
CloudDatabaseConfig
HTTPS /
REST
HANA Deployer
(node application)
CDS
entities
procedures
roles
.hdiconfig
.hdinamespace
JDBC / SQL
(insert, update, …)
deploy
designtime
artefacts
HANA
(hdi-shared)
HANA
HDI
JDBC / SQL
(create, alter, …)
(backing)
services

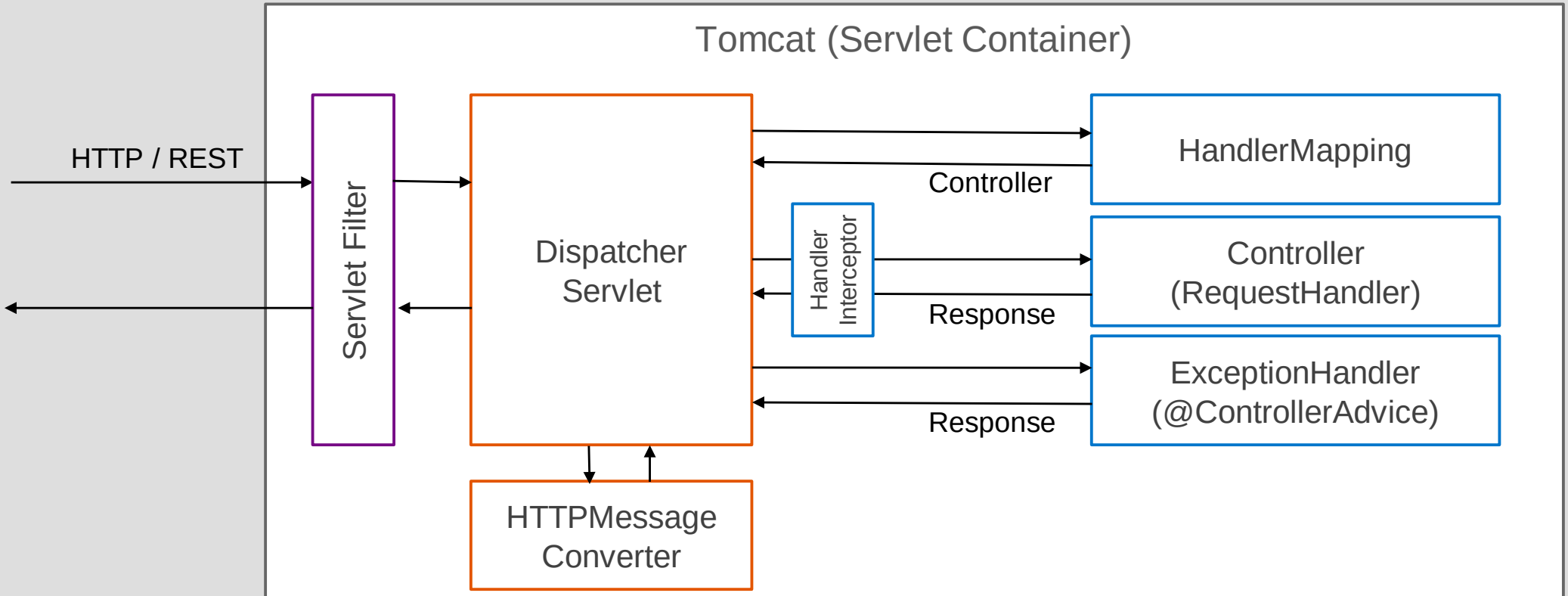

JVM
JUnit
My Service
Controller
Domain
Repository
Gateway
HTTP Client
Data Mapper / ORM
JDBC / SQL
H2 (In Memory)
External Service

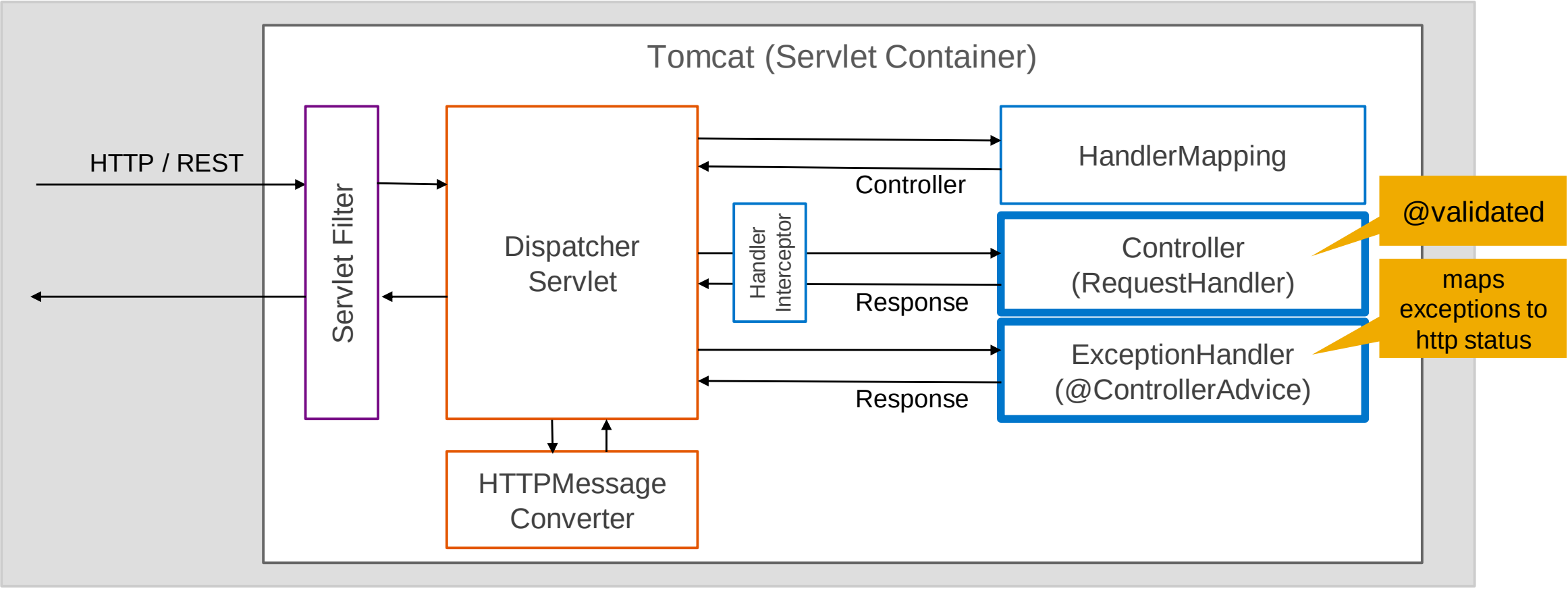

JVM
Mock MVC (or Embedded Tomcat)
JUnit
“HTTPS“ /
REST
My Service
Controller
Domain
Repository
Data Mapper / ORM
Gateway
HTTP
Client
JDBC / SQL
H2 (In Memory)
External
Service

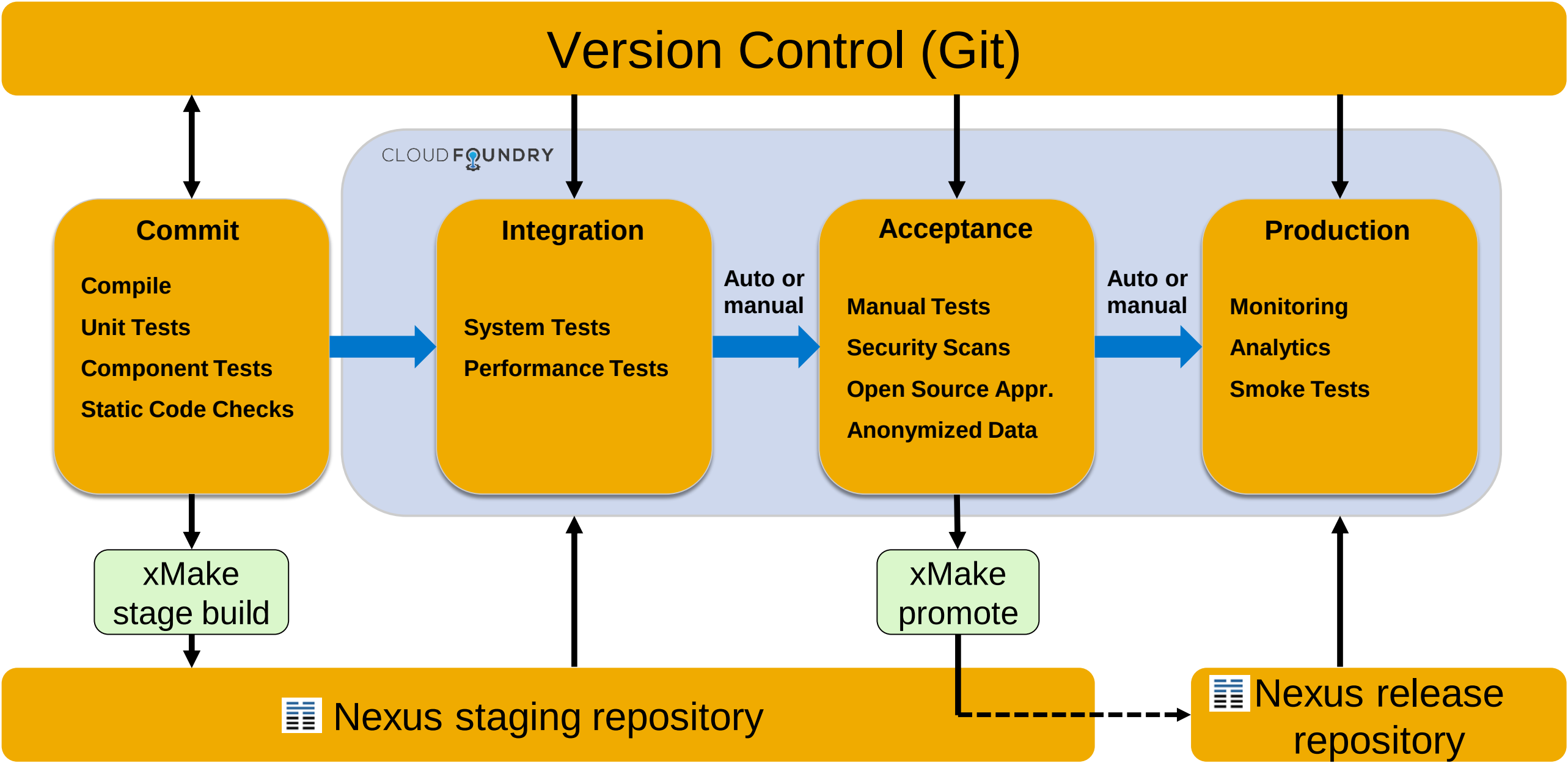

CLOUD FOUNDRY
Jenkins
System Test
HTTPS / REST
My Service
External Service
HTTPS / AMQP
JDBC / SQL
(backing) services
PostgreSQL
ELK

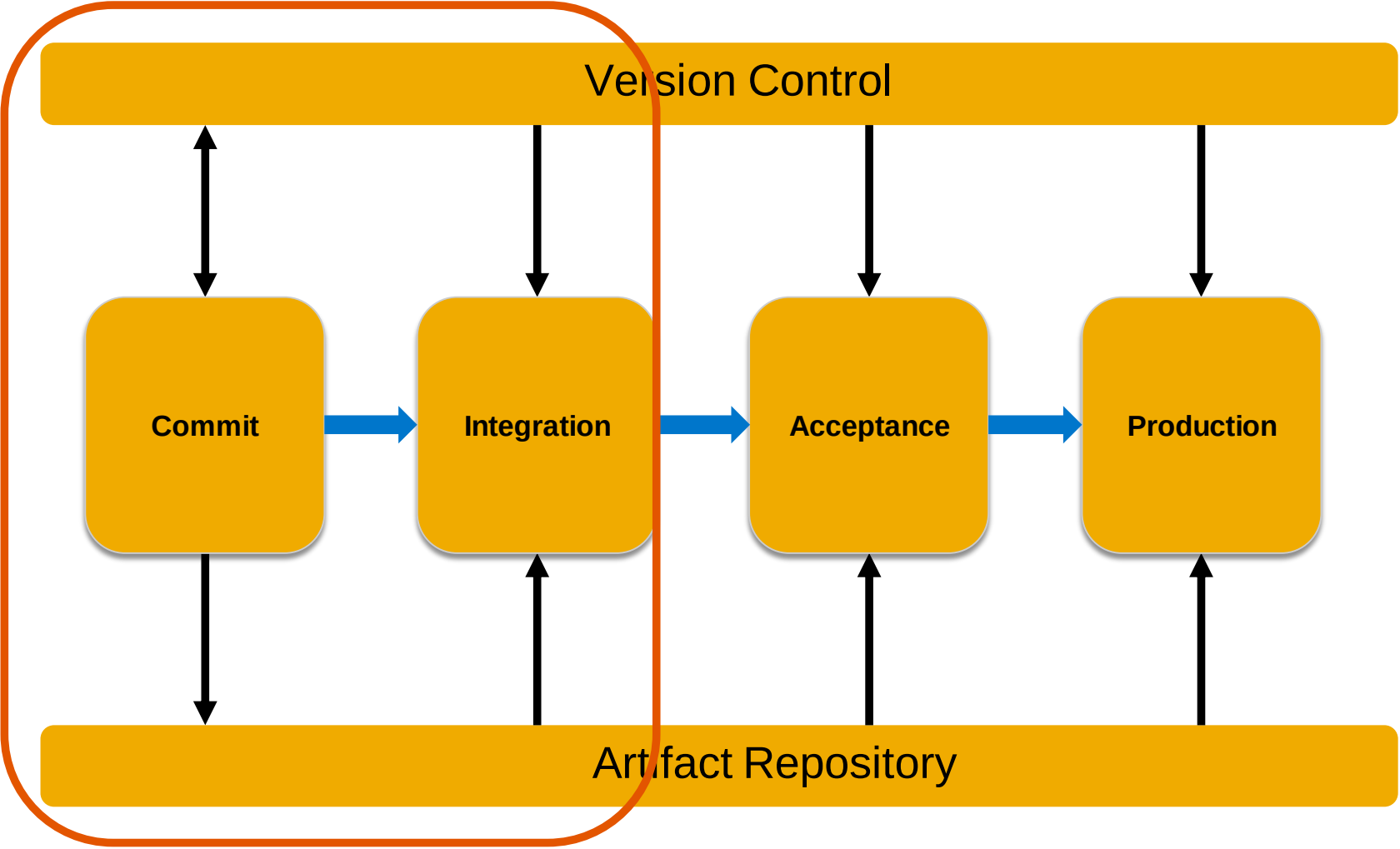

CLOUD FOUNDRY
Jenkins
Performance Test
HTTPS / REST
My Service
External Service
HTTPS / AMQP
JDBC / SQL
(backing) services
PostgreSQL
ELK


Local
1. Builds and deploys WAR file
$ mvn tomcat7:run-war
Tomcat HTTP Server
bulletinboard-ads.war
/
|-- WEB-INF
|-- classes
|-- AppInitializer.class
|-- config
|-- WebAppContextConfig.class
|-- controllers
|-- DefaultController.class
2. Detects WebAplicationInitializer on classpath
3. Instantiates ServletContext with DispatcherServlet
4a. Enables automatic setup of Spring ApplicationContext
4b. enables registration of Spring Web MVC specific components

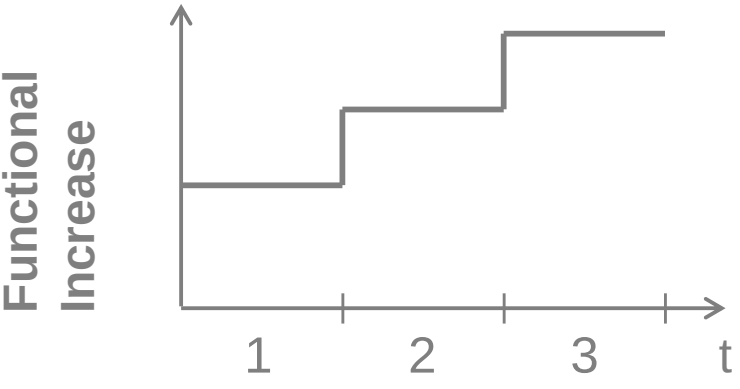

Tomcat (Servlet Container)
HTTP / REST
Servlet Filter
Dispatcher Servlet
HTTPMessage Converter
Handler Interceptor
HandlerMapping
Controller
Controller (RequestHandler)
Response
ExceptionHandler (@ControllerAdvice)
Response


Tomcat (Servlet Container)
HTTP / REST
Servlet Filter
Dispatcher Servlet
HTTPMessage Converter
Handler Interceptor
HandlerMapping
Controller
Controller (RequestHandler)
Response
ExceptionHandler (@ControllerAdvice)
Response
@validated
maps exceptions to http status


Version Control (Git)
CLOUD FOUNDRY
Commit
Compile
Unit Tests
Component Tests
Static Code Checks
Integration
System Tests
Performance Tests
Auto or manual
Acceptance
Manual Tests
Security Scans
Open Source Appr.
Anonymized Data
Auto or manual
Production
Monitoring
Analytics
Smoke Tests
xMake stage build
xMake promote
Nexus staging repository
Nexus release repository

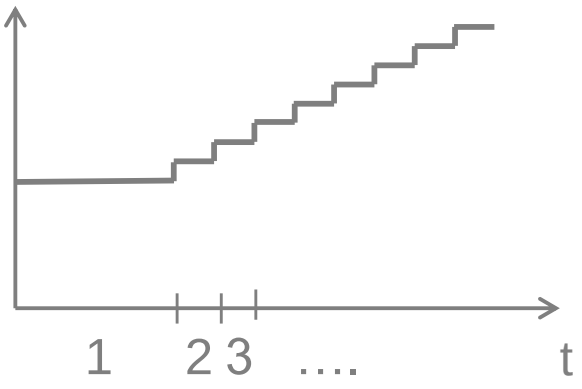

Version Control
Commit
Integration
Acceptance
Production
Artifact Repository

On Premise Applications



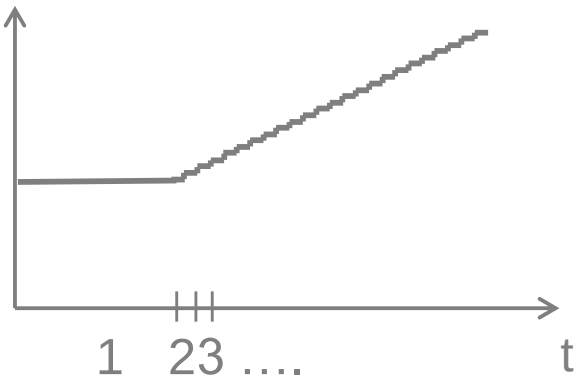
Major (Yearly) Releases

On Premise / Cloud Applications today

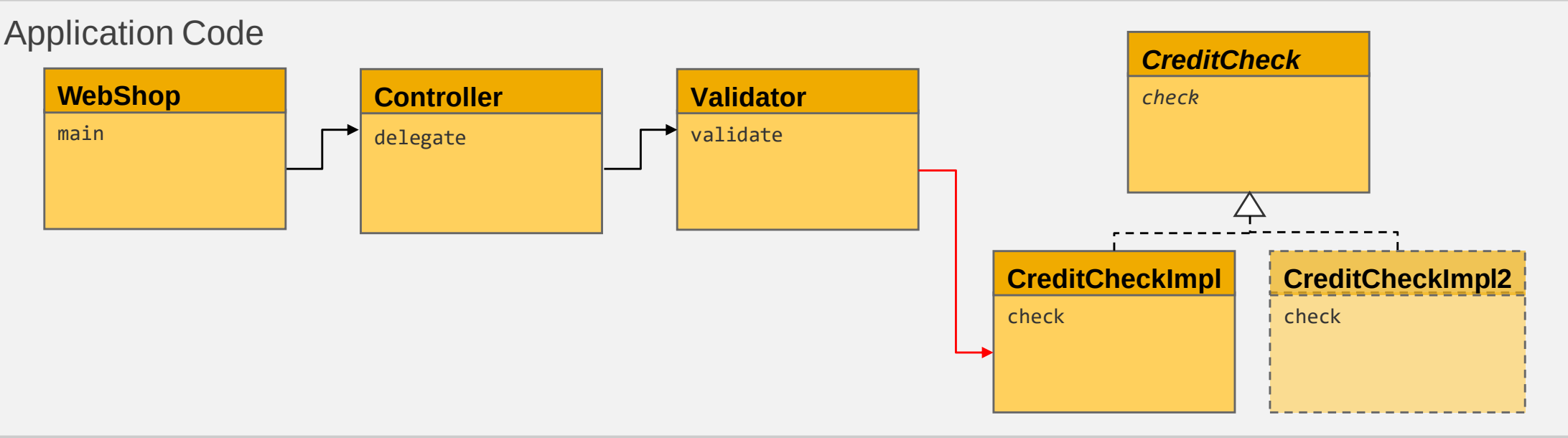


Quarterly Shipments

Cloud Applications in the future

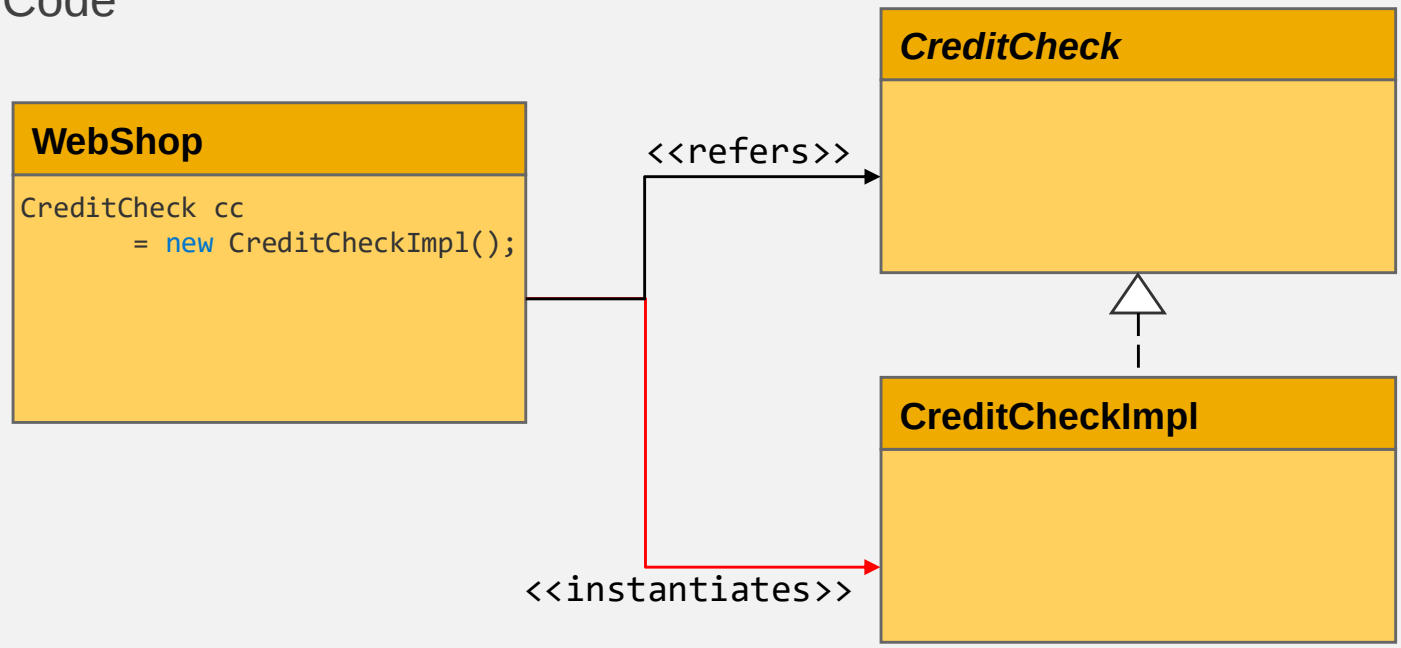


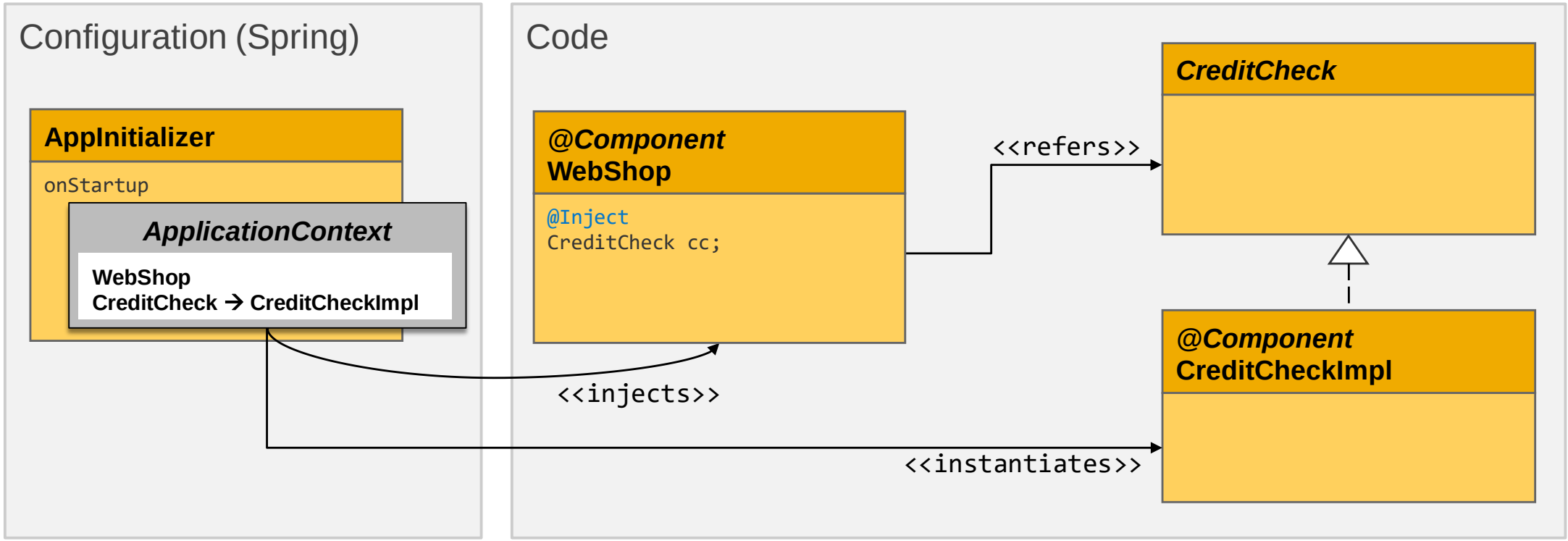
Quasi Continuous Delivery

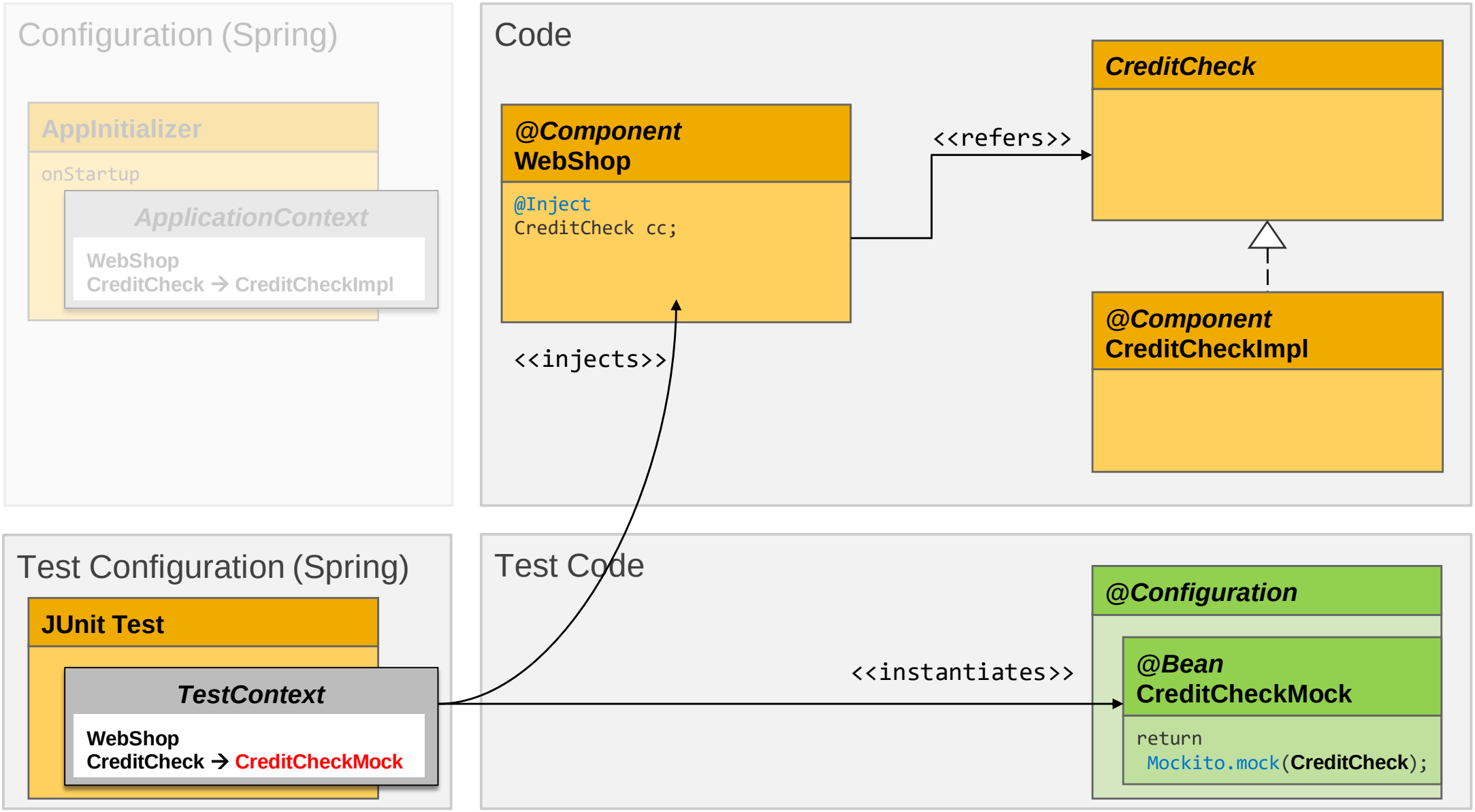

Application Code
WebShop
main
Controller
delegate
Validator
validate
CreditCheck
check
CreditCheckImpl
check
CreditCheckImpl2
check

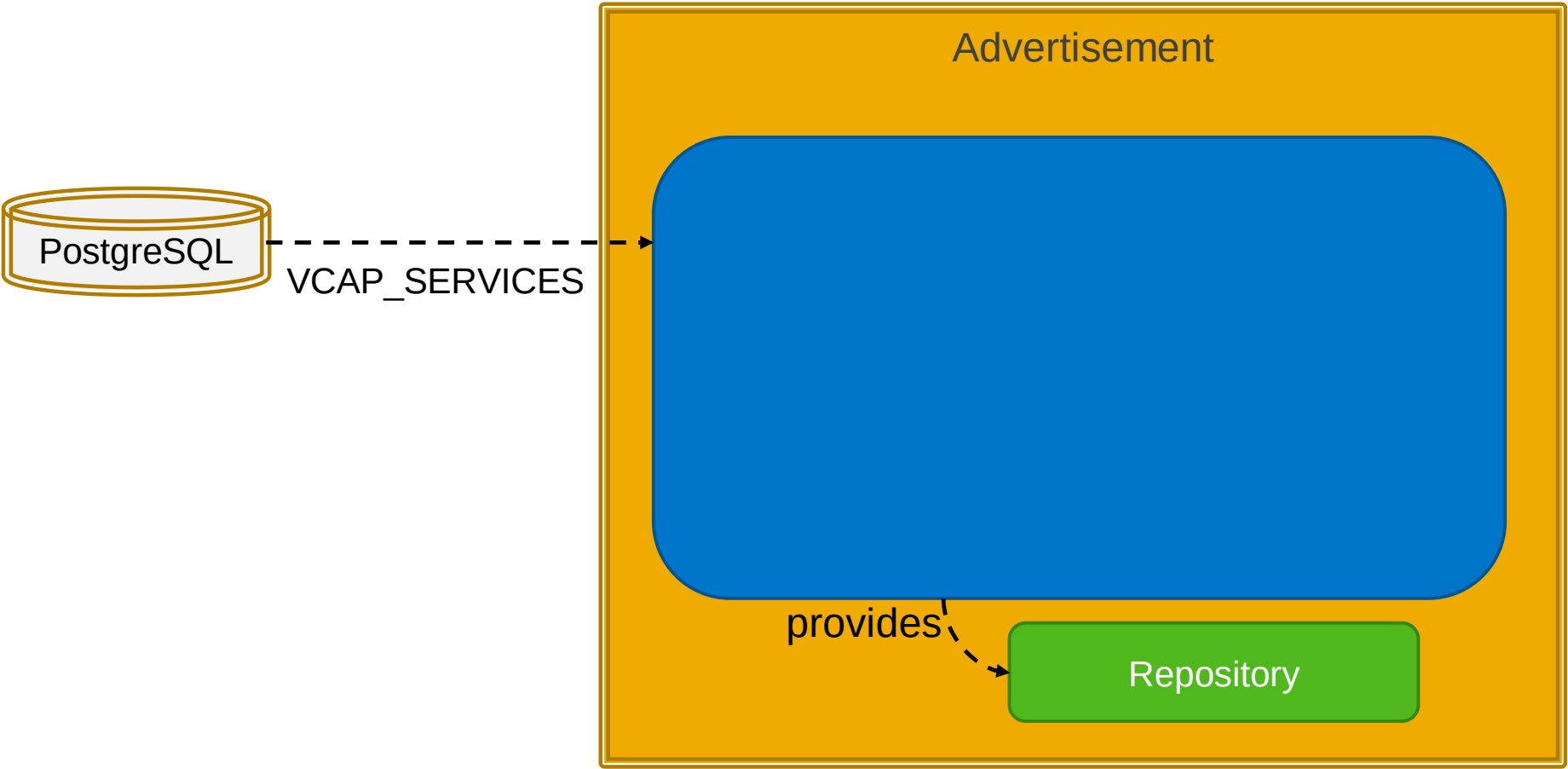
Application

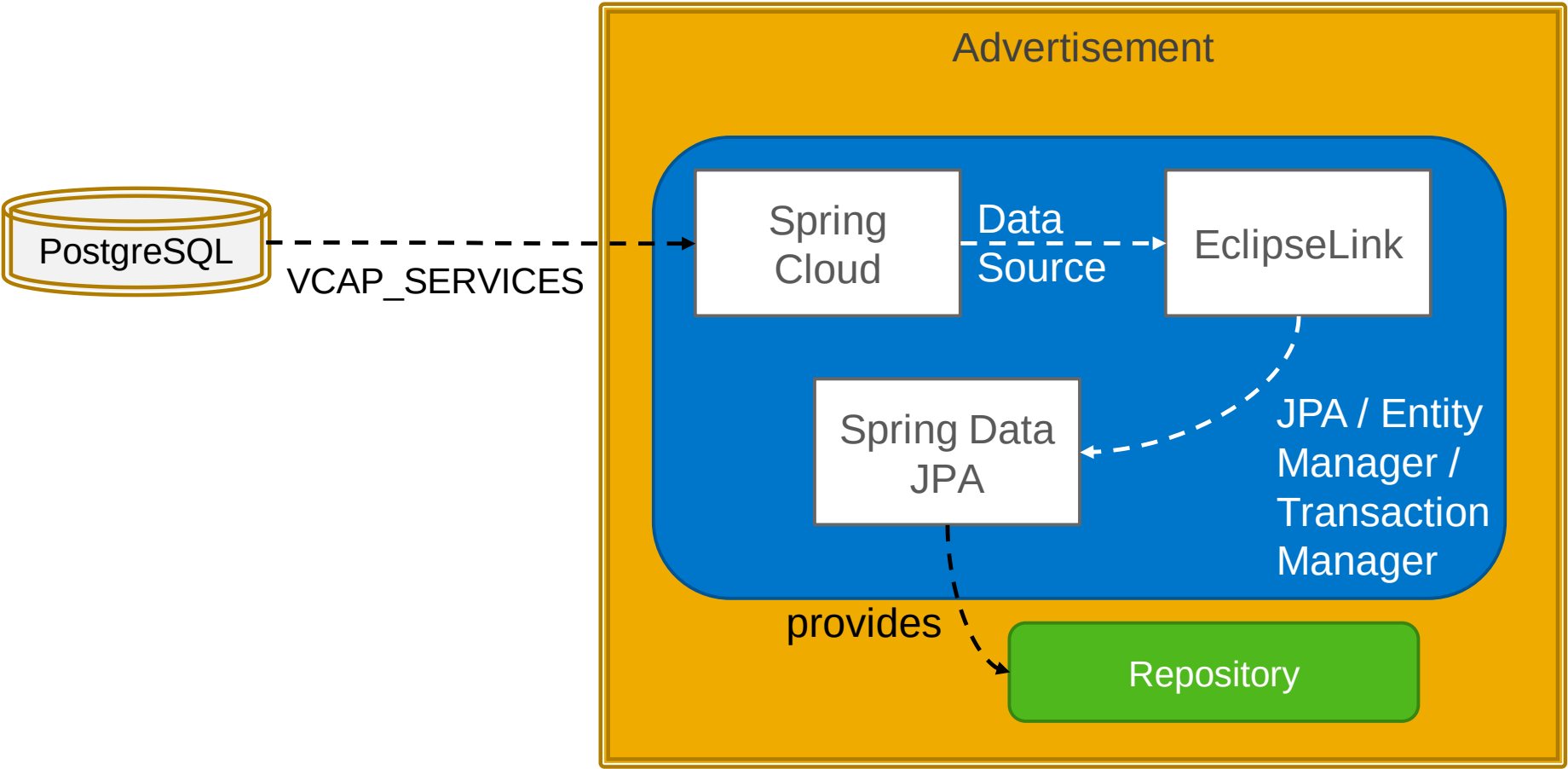
Code

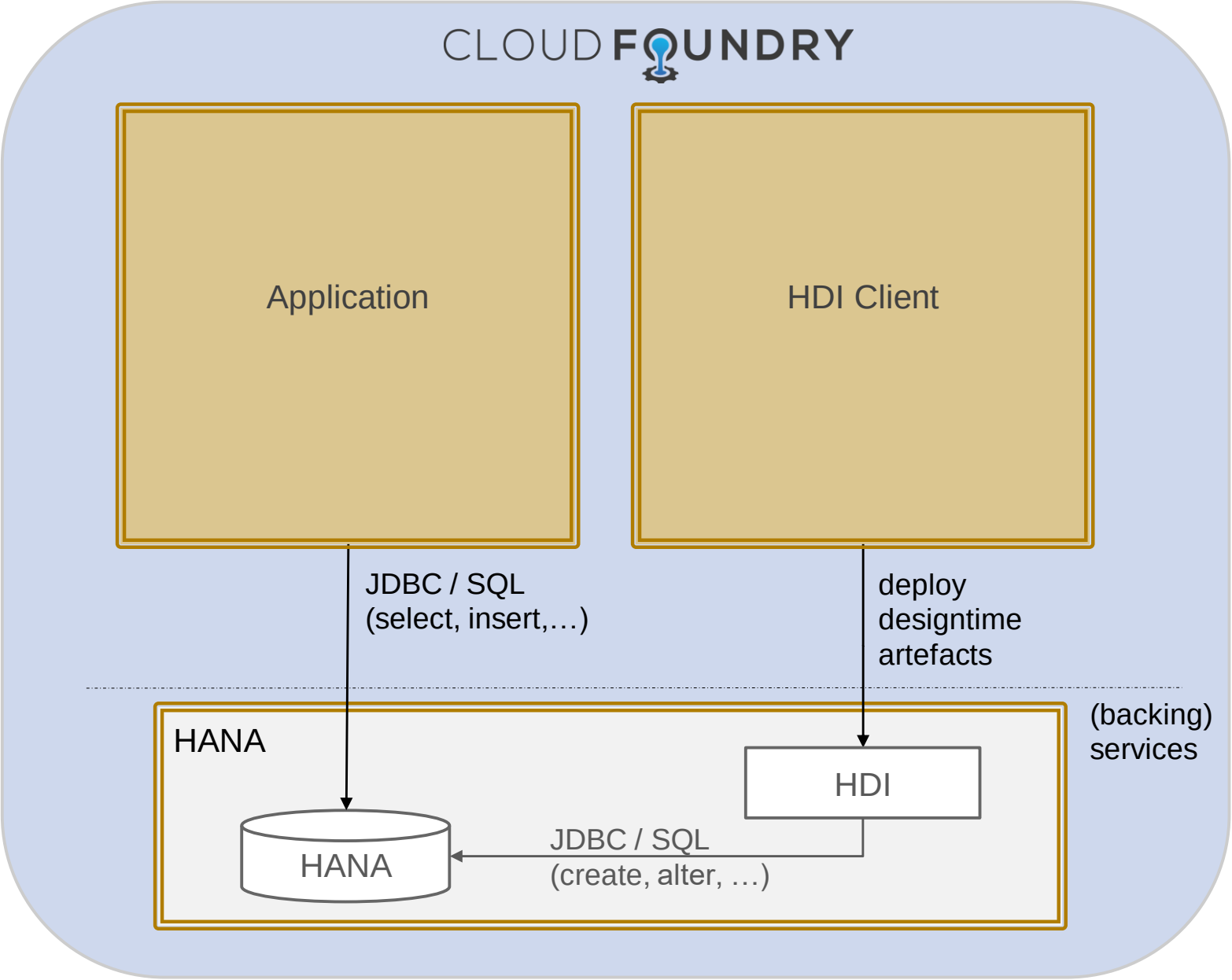


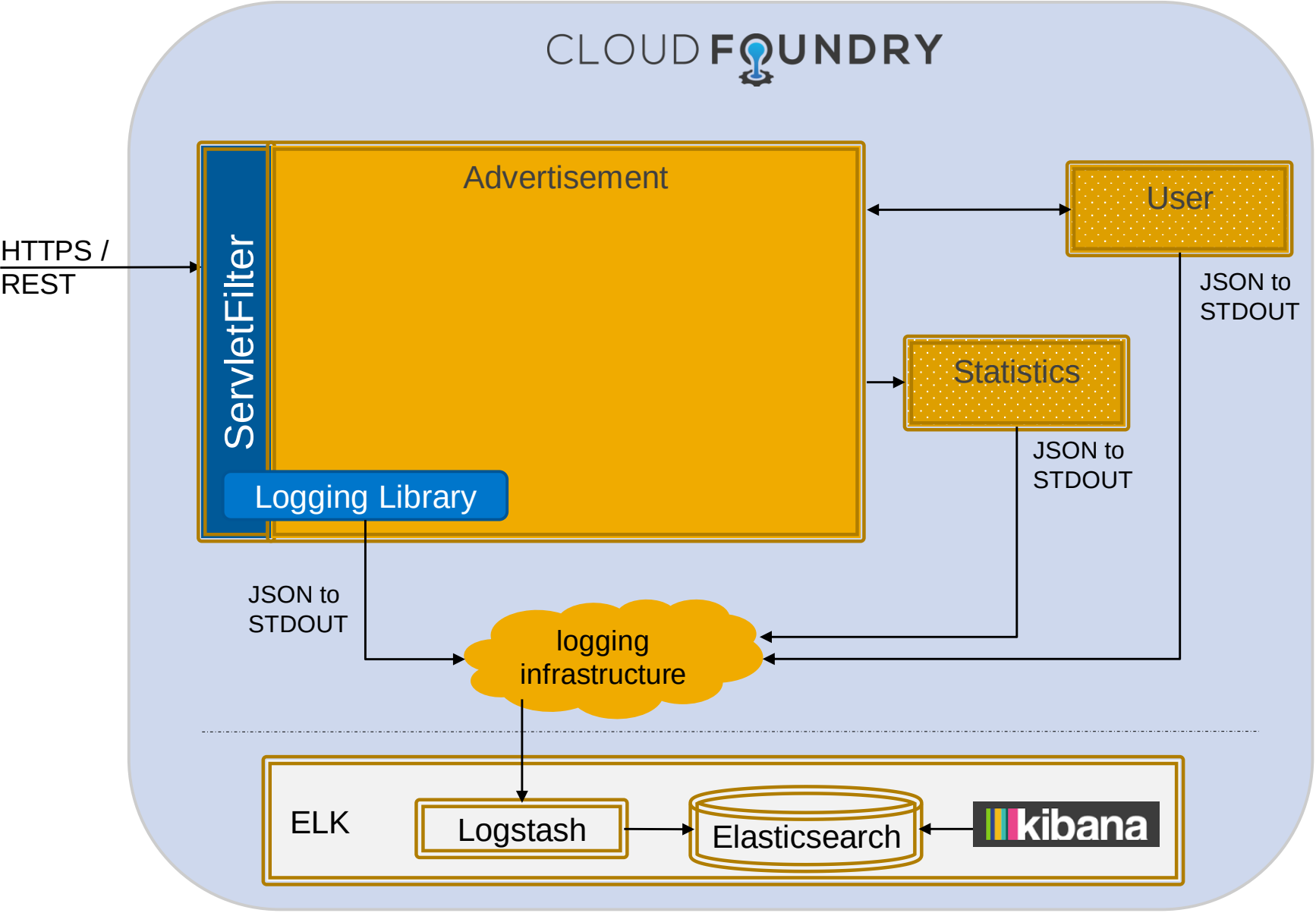

Configuration (Spring)
AppInitializer
onStartup
ApplicationContext
WebShop
CreditCheck → CreditCheckImpl
Code
@Component
WebShop
@Inject
CreditCheck cc;
<<refers>>
CreditCheck
@Component
CreditCheckImpl
<<injects>>
<<instantiates>>

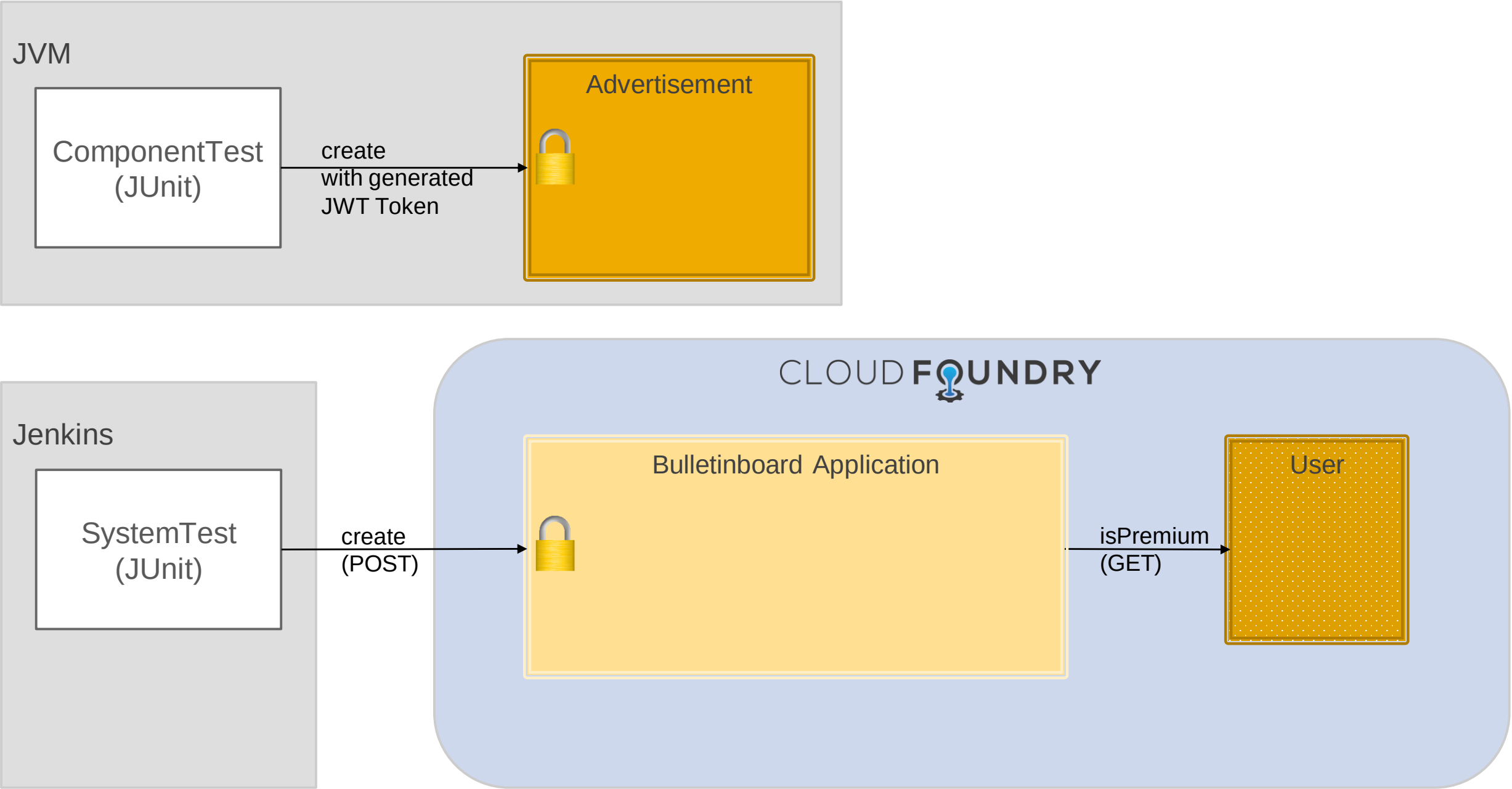

Configuration (Spring)
AppInitializer
onStartup
ApplicationContext
WebShop
CreditCheck → CreditCheckImpl
Code
@Component
WebShop
@Inject
CreditCheck cc;
<<refers>>
CreditCheck
@Component
CreditCheckImpl
<<injects>>
Test Configuration (Spring)
JUnit Test
TestContext
WebShop
CreditCheck → CreditCheckMock
Test Code
<<instantiates>>
@Configuration
@Bean
CreditCheckMock
return
Mockito.mock(CreditCheck);

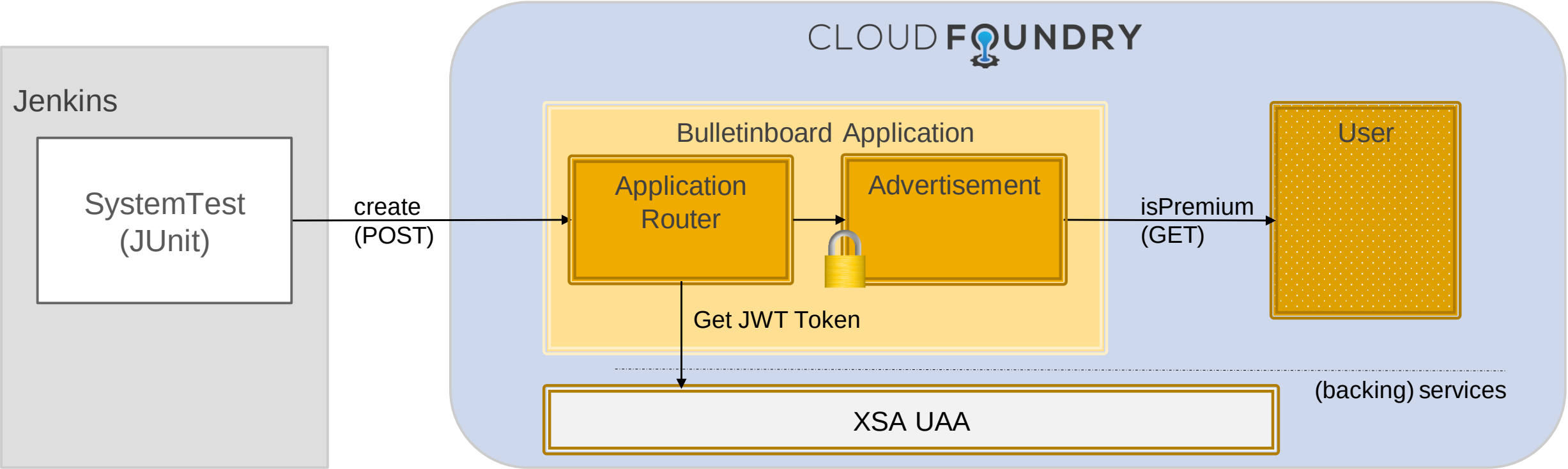

Advertisement
PostgreSQL
VCAP_SERVICES
provides
Repository

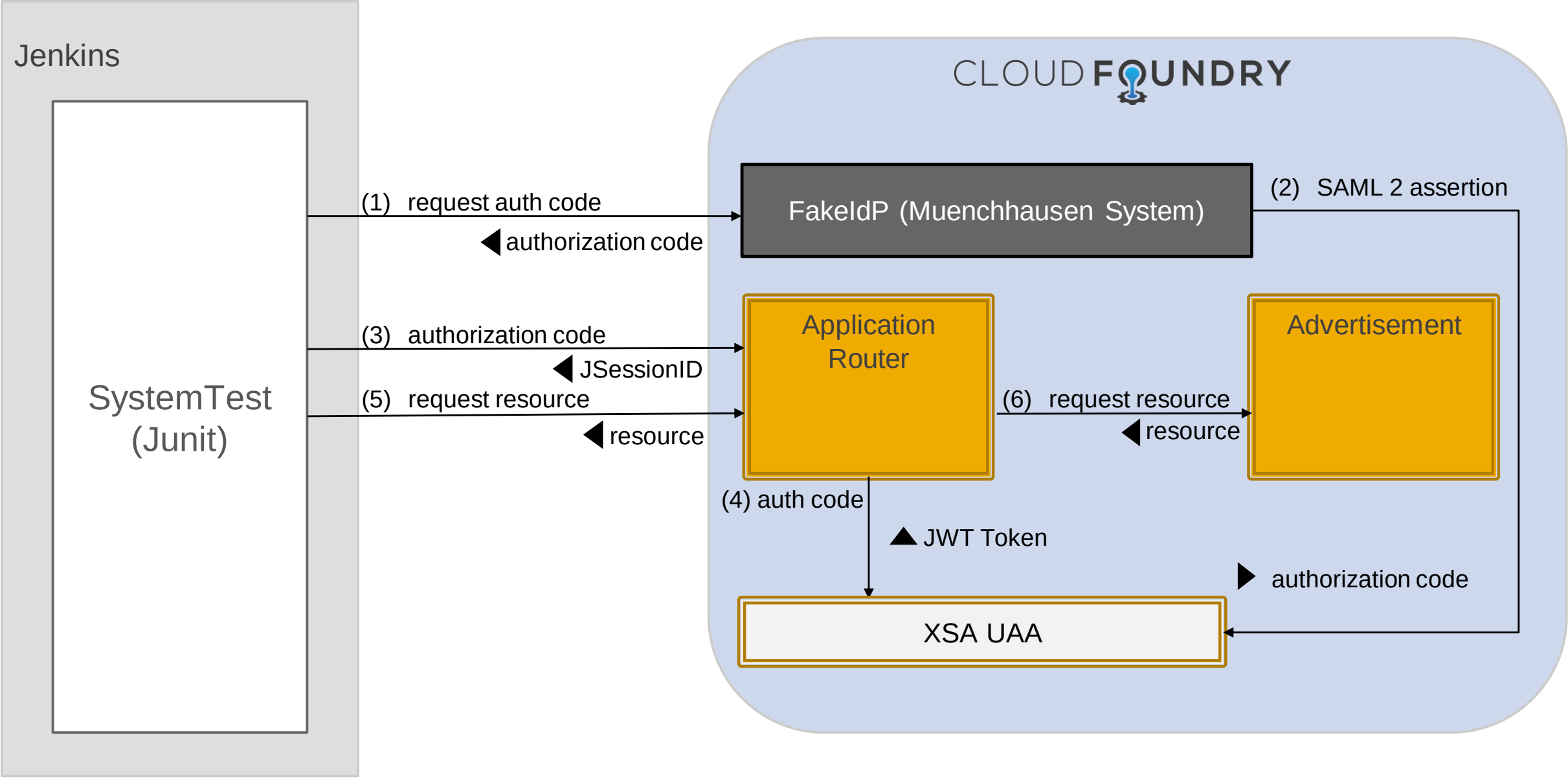

Advertisement
PostgreSQL
VCAP_SERVICES
Spring Cloud
Data Source
EclipseLink
Spring Data JPA
JPA / Entity Manager / Transaction Manager
provides
Repository

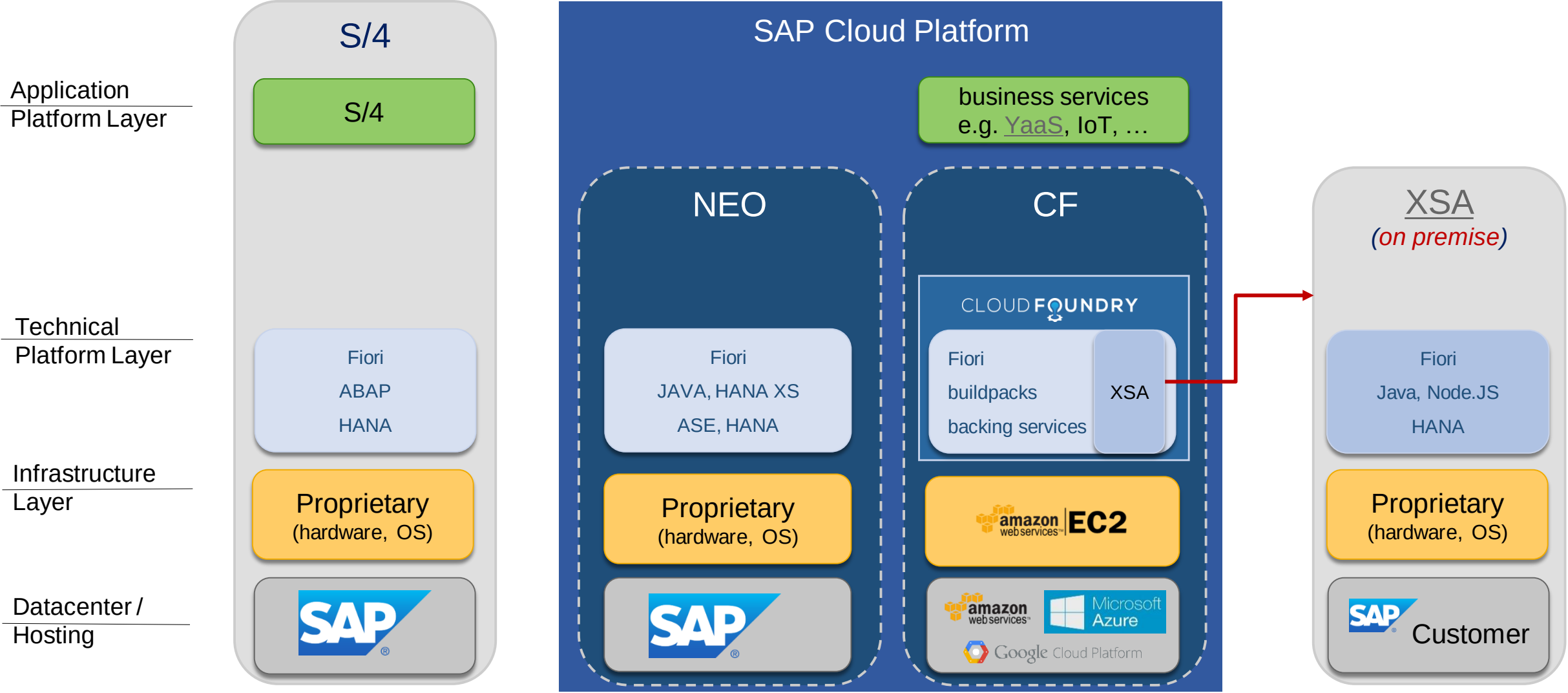

CLOUD FOUNDRY
Application
HDI Client
JDBC / SQL
(select, insert,…)
deploy
designtime
artefacts
(backing)
services
HANA
HDI
HANA
JDBC / SQL
(create, alter, …)

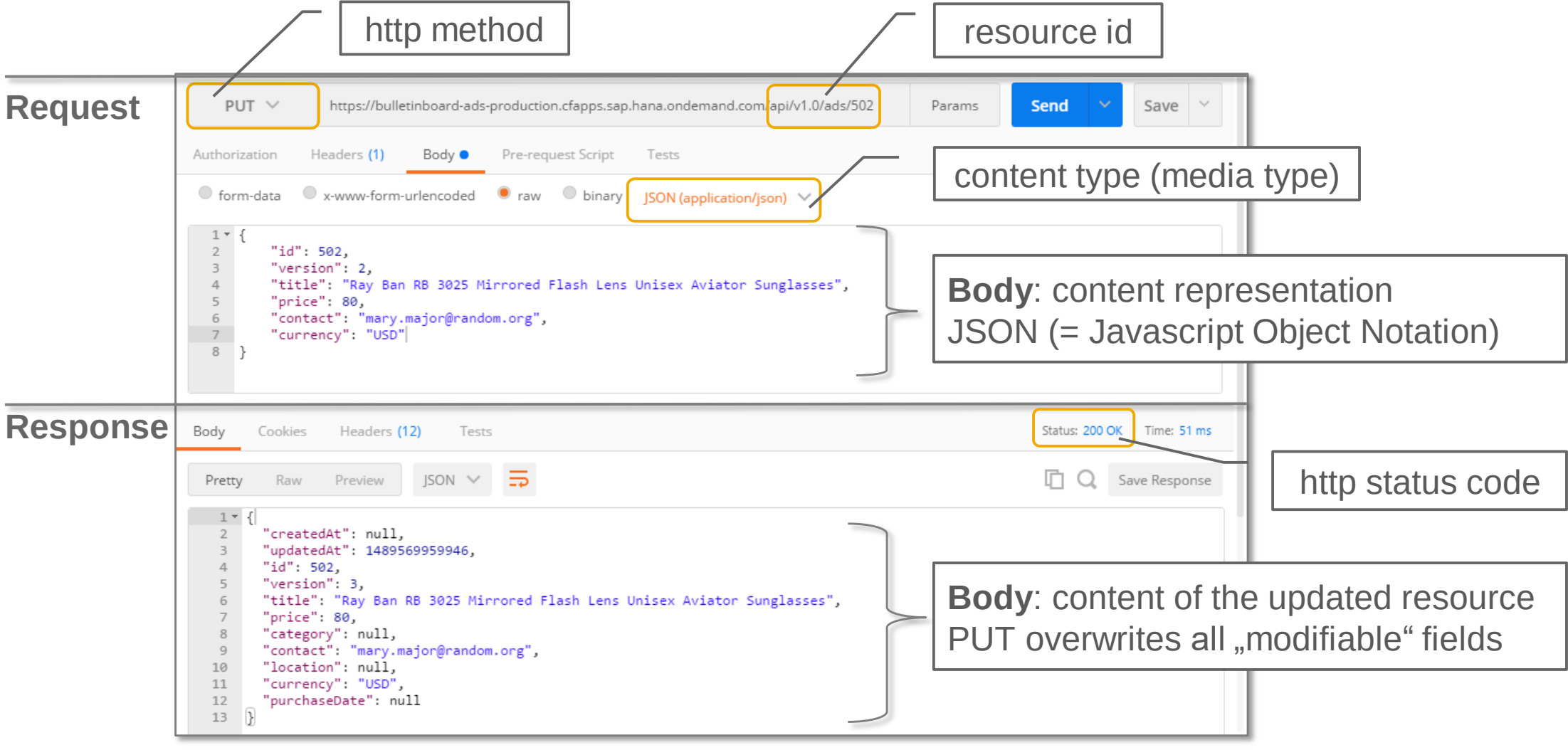

CLOUD FOUNDRY
Advertisement
ServletFilter
Logging Library
HTTPS /
REST
User
JSON to
STDOUT
Statistics
JSON to
STDOUT
JSON to
STDOUT
logging
infrastructure
ELK
Logstash
Elasticsearch
kibana

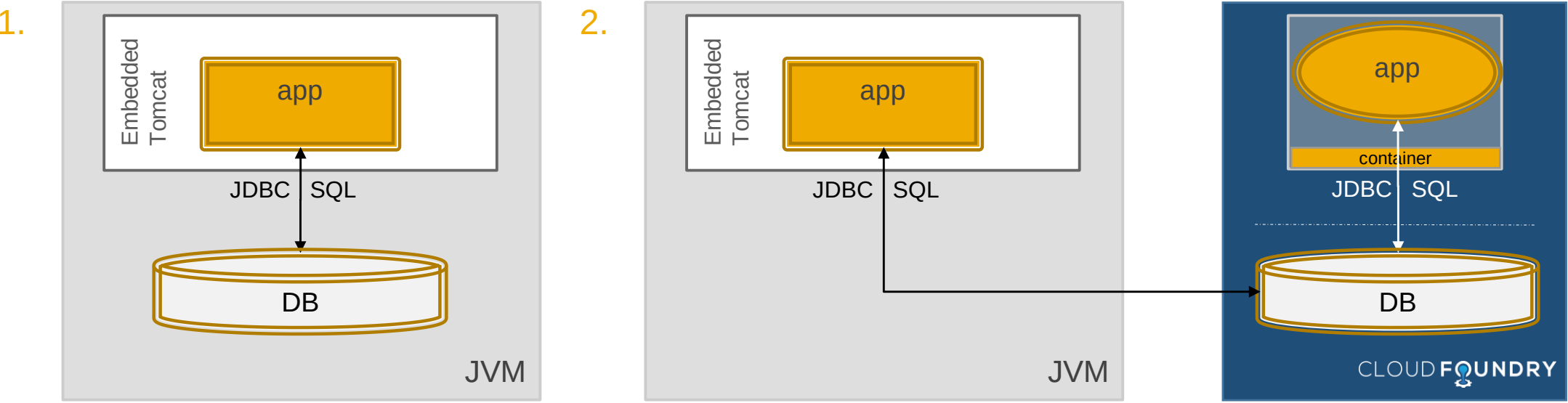

JVM
ComponentTest
(JUnit)
create
with generated
JWT Token
Advertisement
Jenkins
SystemTest
(JUnit)
create
(POST)
CLOUD FOUNDRY
Bulletinboard Application
isPremium
(GET)
User


Jenkins
SystemTest
(JUnit)
create
(POST)
CLOUD FOUNDRY
Bulletinboard Application
Application
Router
Advertisement
Get JWT Token
isPremium
(GET)
User
(backing) services
XSA UAA


Jenkins
SystemTest
(Junit)
CLOUD FOUNDRY
FakeIdP (Muenchhausen System)
(1) request auth code
authorization code
(2) SAML 2 assertion
Application
Router
Advertisement
(3) authorization code
JSessionID
(5) request resource
resource
(6) request resource
resource
(4) auth code
JWT Token
authorization code
XSA UAA


Application Platform Layer
Technical Platform Layer
Infrastructure Layer
Datacenter / Hosting
S/4
S/4
Fiori
ABAP
HANA
Proprietary
(hardware, OS)
SAP
SAP Cloud Platform
business services
e.g. YaaS, IoT, …
NEO
Fiori
JAVA, HANA XS
ASE, HANA
Proprietary
(hardware, OS)
SAP
CF
CLOUD FOUNDRY
Fiori
buildpacks
backing services
XSA
amazon web services EC2
amazon web services
Microsoft Azure
Google Cloud Platform
XSA
(on premise)
Fiori
Java, Node.JS
HANA
Proprietary
(hardware, OS)
SAP Customer


http method
resource id
Request
PUT
https://bulletinboard-ads-production.cfapps.sap.hana.ondemand.com/api/v1.0/ads/502
Params
Send
Save
Authorization
Headers (1)
Body
Pre-request Script
Tests
form-data
x-www-form-urlencoded
raw
binary
JSON (application/json)
content type (media type)
{
"id": 502,
"version": 2,
"title": "Ray Ban RB 3025 Mirrored Flash Lens Unisex Aviator Sunglasses",
"price": 80,
"contact": "mary.major@random.org",
"currency": "USD"
}
Body: content representation
JSON (= Javascript Object Notation)
Response
Body
Cookies
Headers (12)
Tests
Status: 200 OK
Time: 51 ms
Pretty
Raw
Preview
JSON
Save Response
http status code
{
"createdAt": null,
"updatedAt": 1489569959946,
"id": 502,
"version": 3,
"title": "Ray Ban RB 3025 Mirrored Flash Lens Unisex Aviator Sunglasses",
"price": 80,
"category": null,
"contact": "mary.major@random.org",
"location": null,
"currency": "USD",
"purchaseDate": null
}
Body: content of the updated resource
PUT overwrites all „modifiable“ fields


1.
Embedded Tomcat
app
JDBC
SQL
DB
JVM
2.
Embedded Tomcat
app
JDBC
SQL
JVM
app
container
JDBC
SQL
DB
CLOUD FOUNDRY

Open Source

Licensing Risks powered by PPMS

hamcrest + request new

Channels

Filter Channels by Product Version!

type to search...

Select the channels which are relevant for the displayed results — deselect all

Review Model A, B

- Direct OnPrem
- VAR OnPrem
- Softw Subscr
- Public PMCloud
- Private PMCloud

Review Model C, D

- Mobile Pure Licensing
- OOEM Mobile Store

Review Model E

- Chann SaaS
- Chann P/IaaS
- Direct Cloud

For a detailed description of the channels, click here

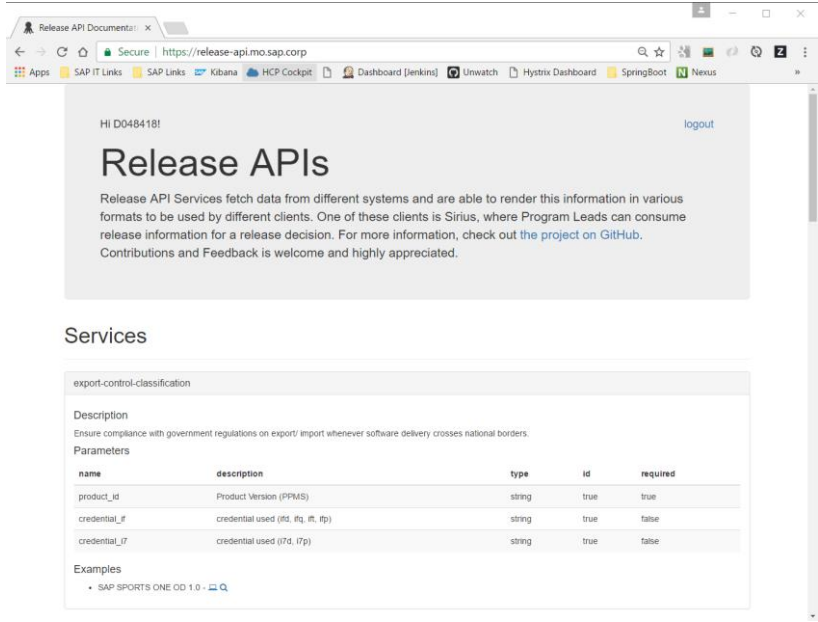
6 results found

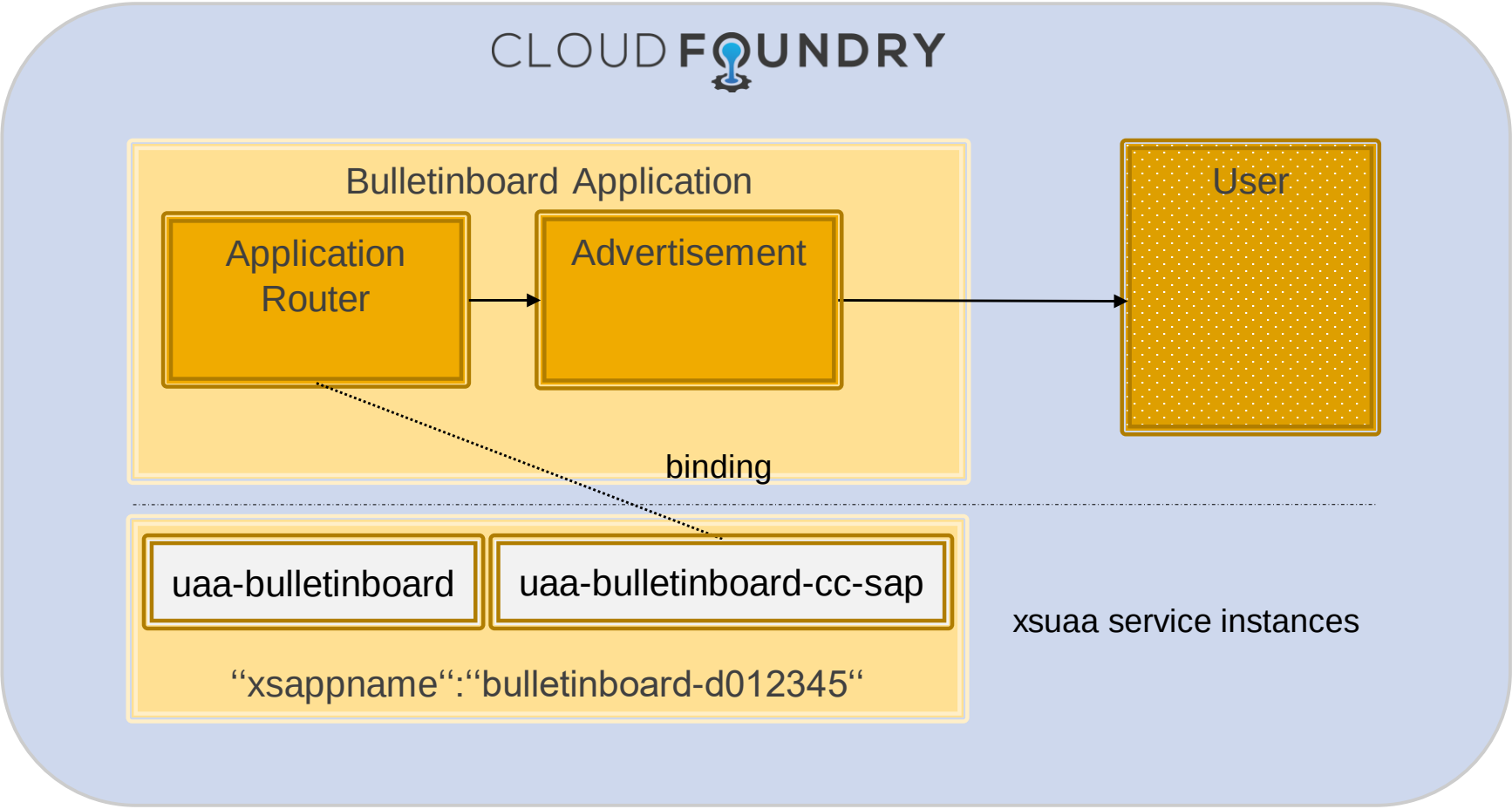
not found what you searched for? **request for a new component**

Name	Version	RiskRating
Hamcrest	2.0.0.0	✓
Hamcrest	1.1	✓
Hamcrest Core	1.3	✓
Hamcrest library	1.3	requested 2 months ago
JavaHamcrest	hamcrest-java-1.3	requested a month ago
hamcrest	1.3	✓

Legend

- low risk
- medium risk
- high risk
- not permitted
- instructions available




CLOUD FOUNDRY
Bulletinboard Application
Application Router
Advertisement
User
binding
uaa-bulletinboard
uaa-bulletinboard-cc-sap
xsuaa service instances
“xsappname“:“bulletinboard-d012345“