

TDD 4 days

Day 1 All about testing and ATDD

Day 2 TDD with Android

Day 3 TDD with iOS with Swift

Day 4 TDD with Backend with Java



Somkiat Puisungnoen

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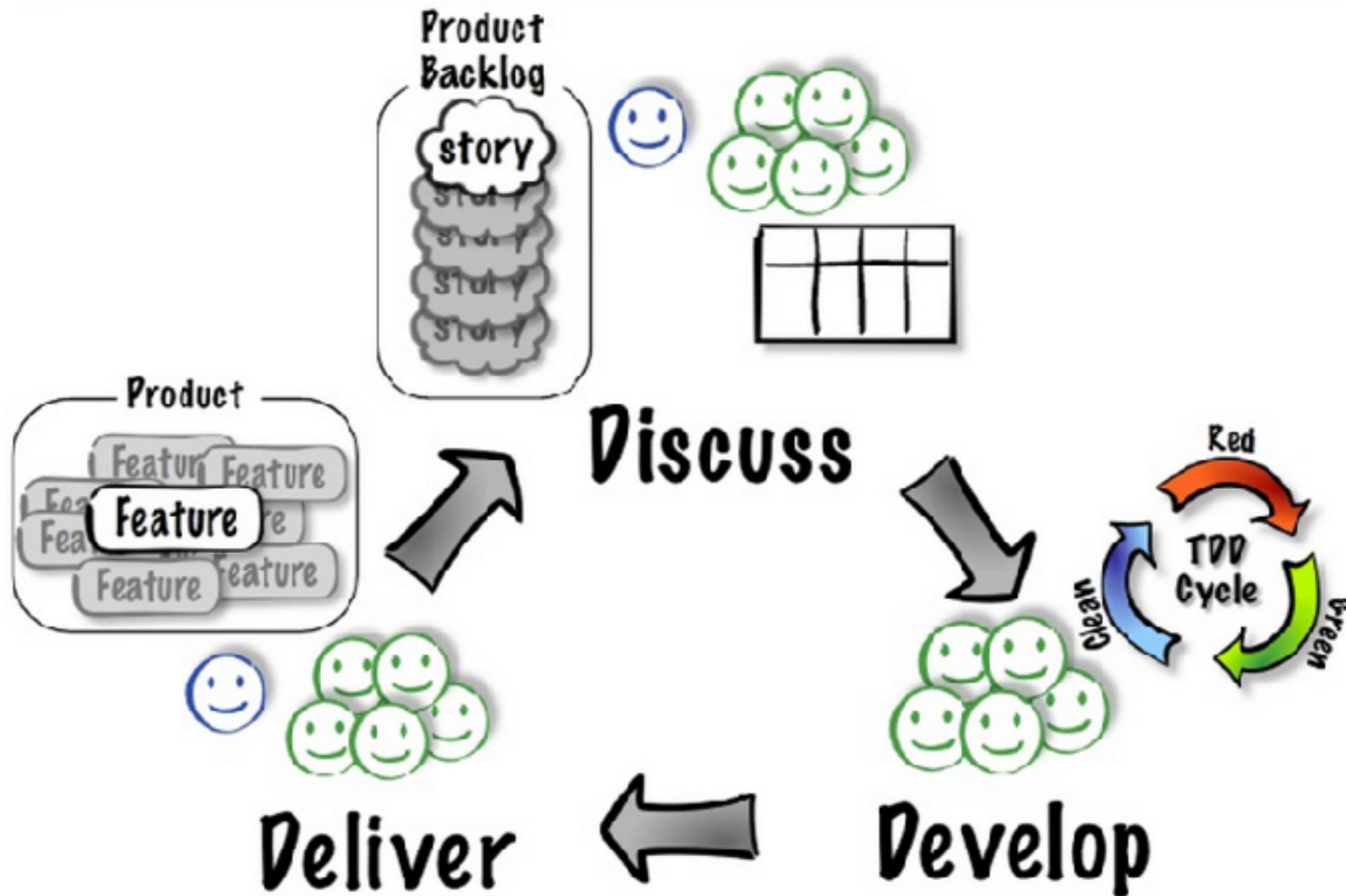

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Home About



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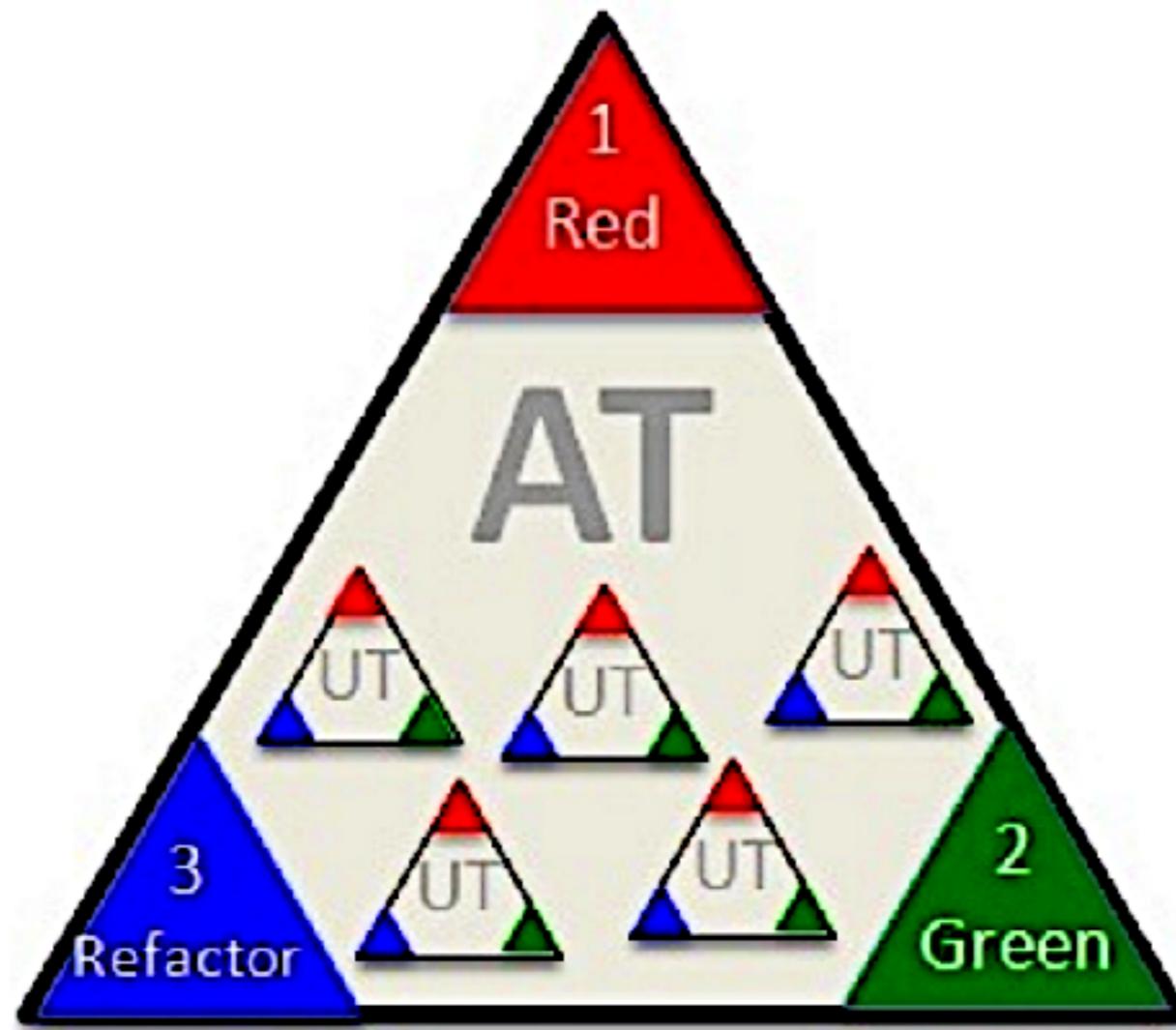
ATDD Cycle



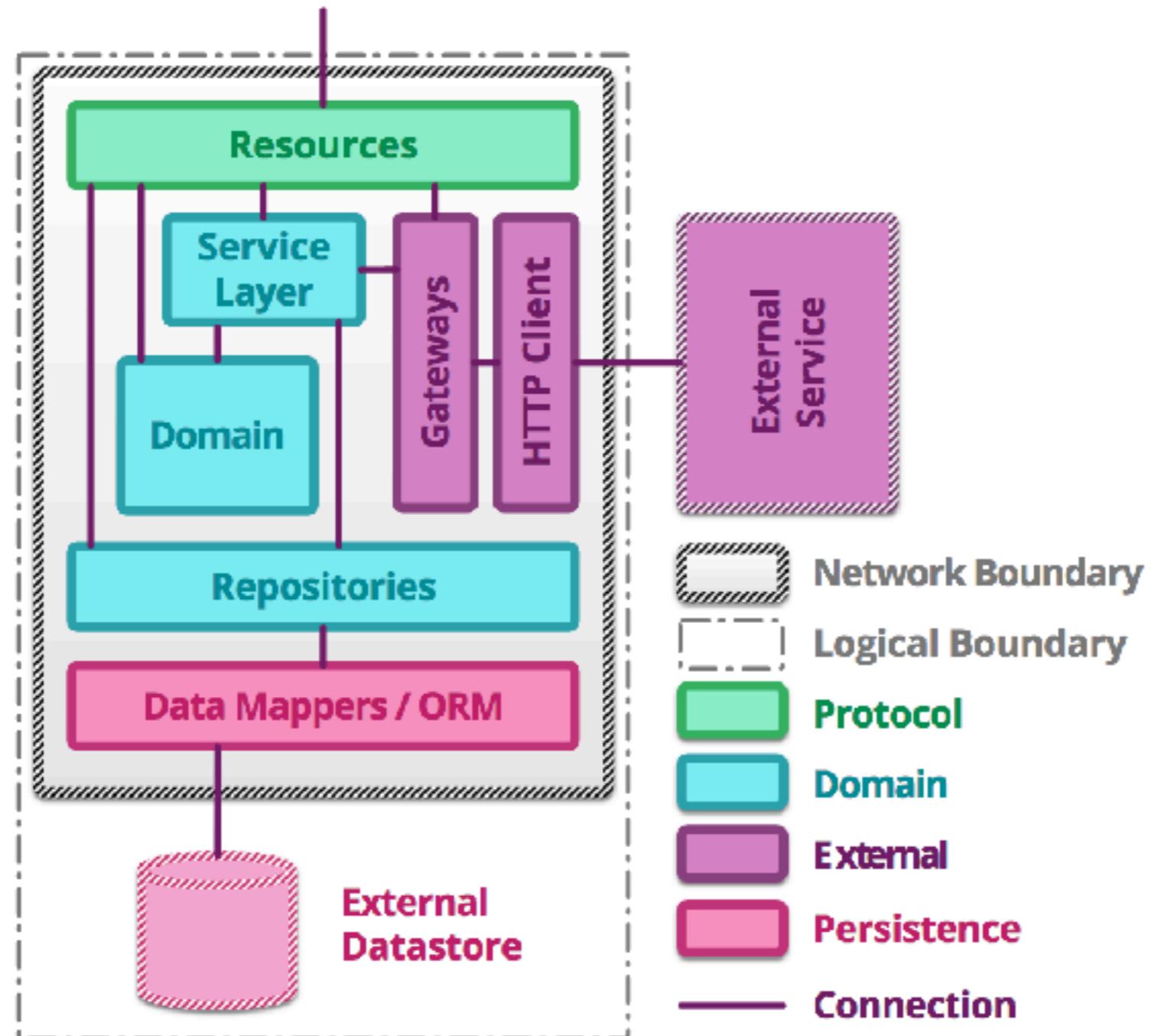
(Model developed with Pekka Klärck, Bas Vodde, and Craig Larman.)



ATDD



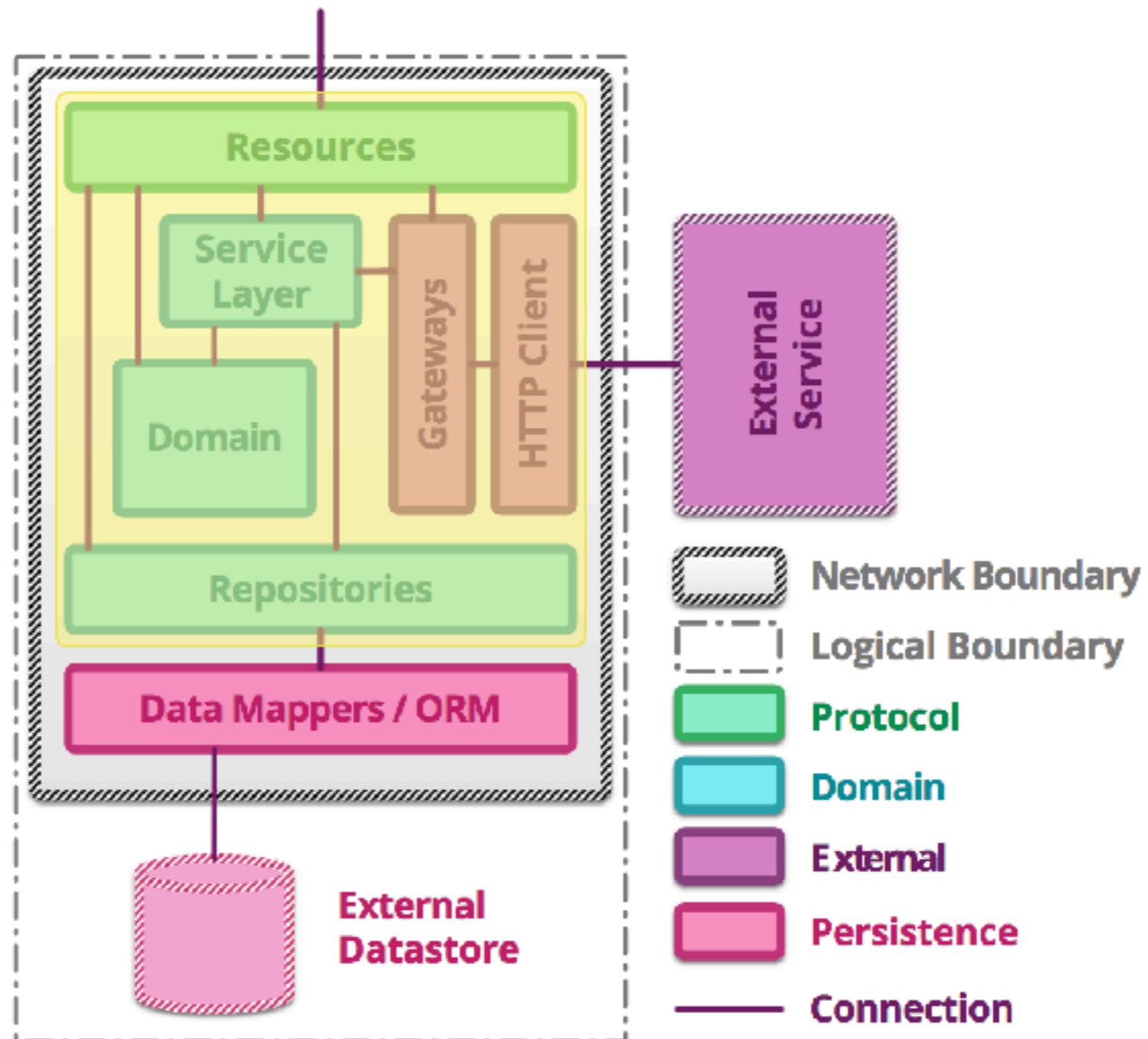
Develop REST APIs



<https://martinfowler.com/articles/microservice-testing>



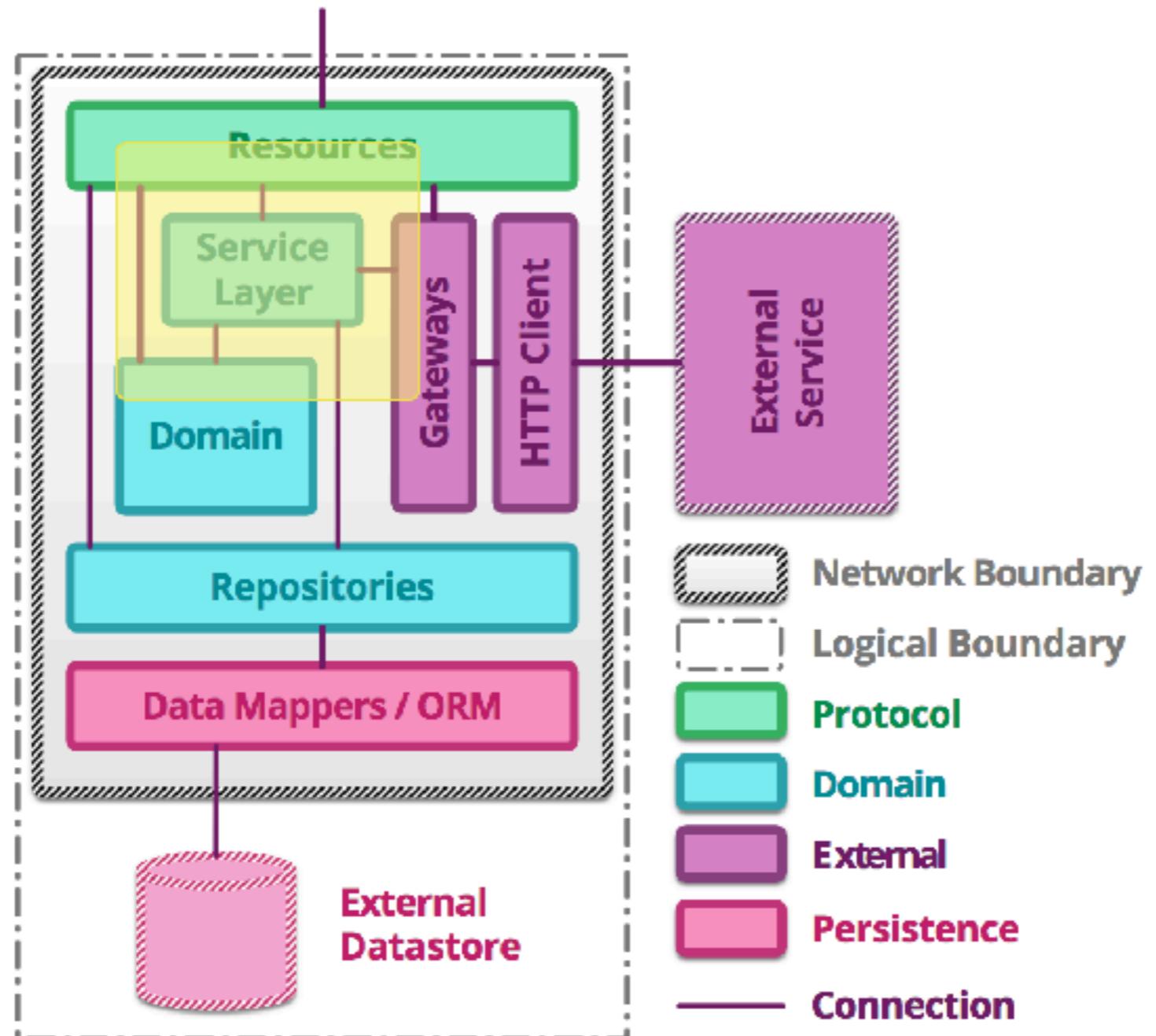
Resources Testing



<https://martinfowler.com/articles/microservice-testing>



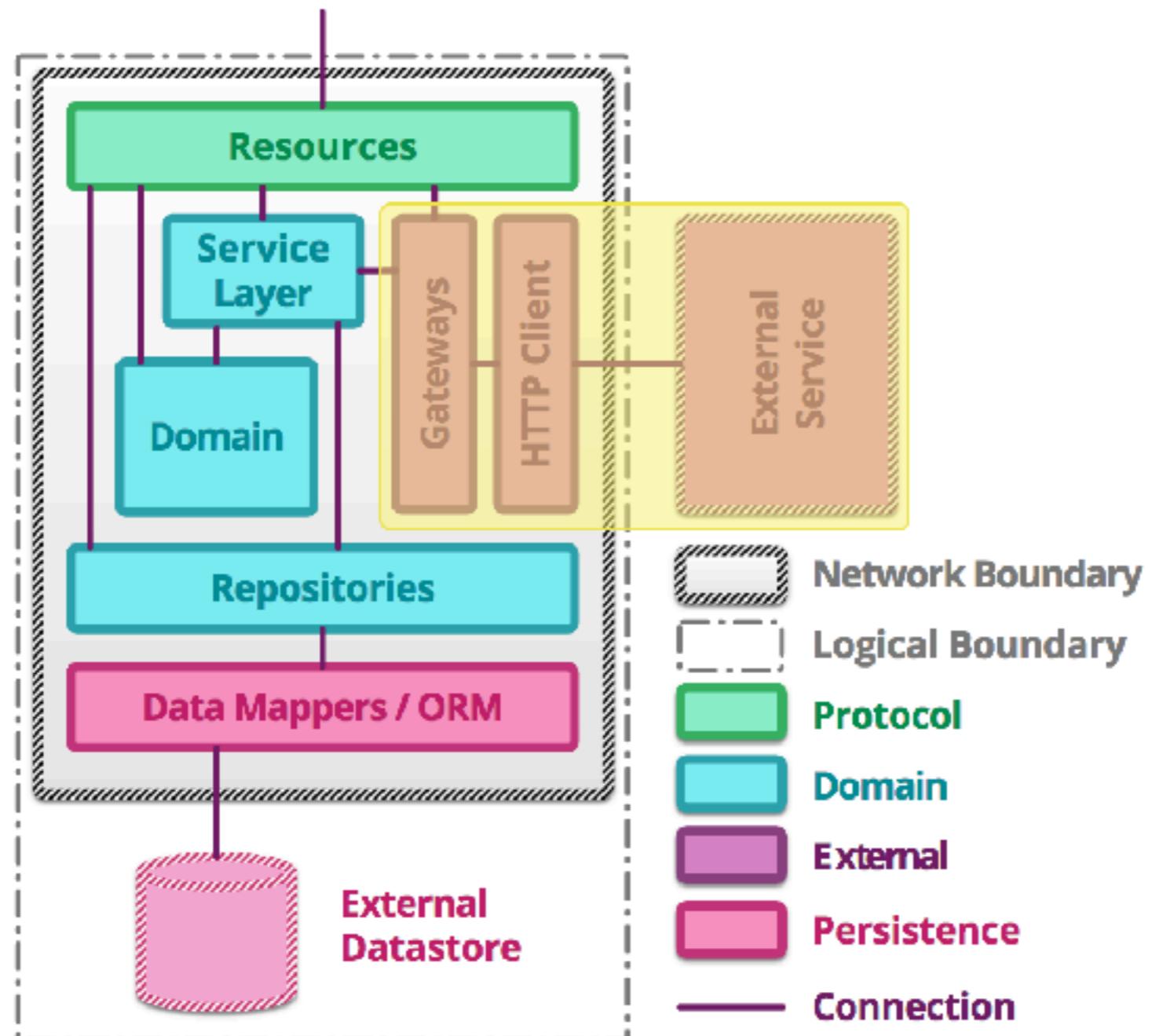
Services Testing



<https://martinfowler.com/articles/microservice-testing>



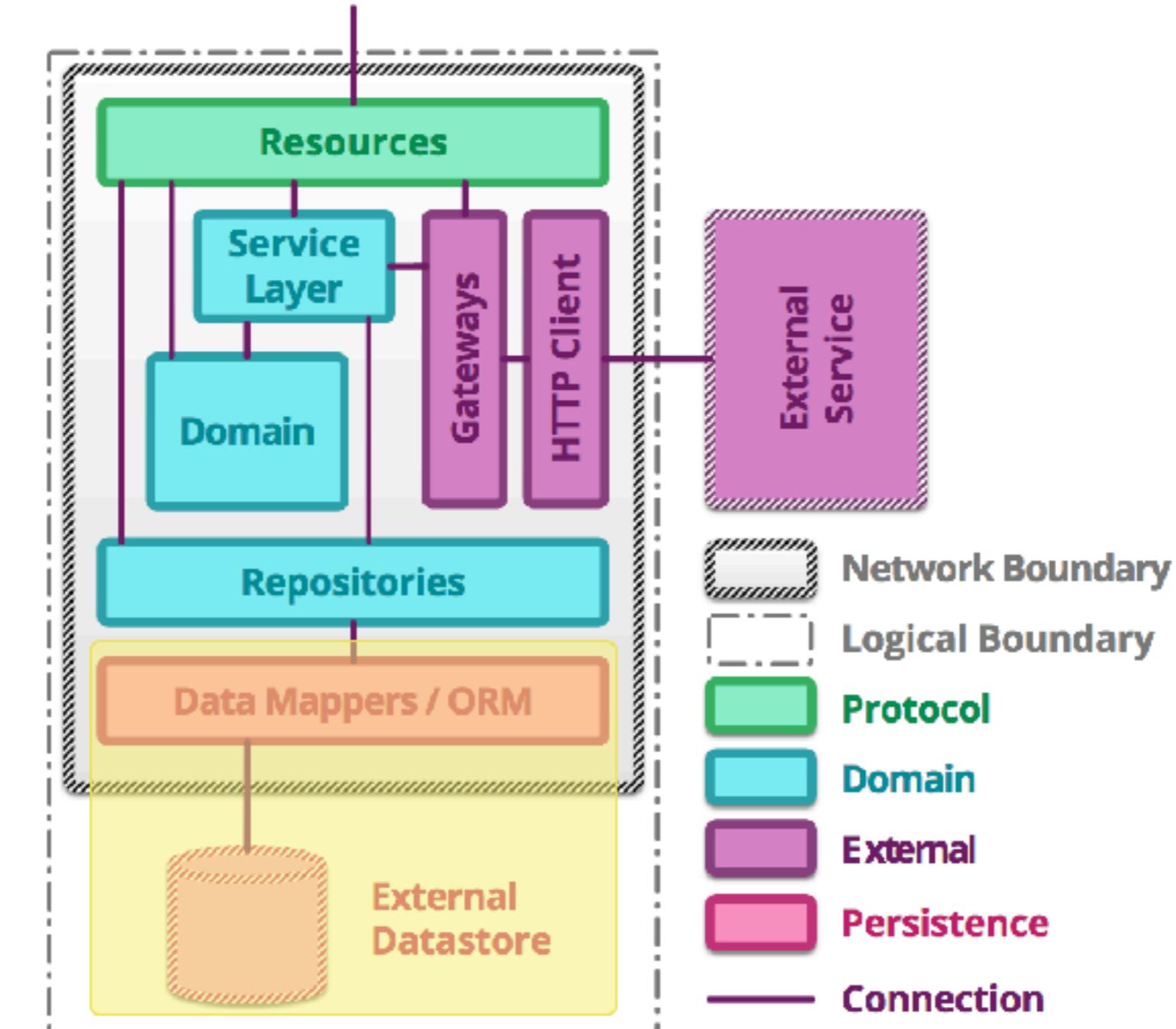
Integration Testing



<https://martinfowler.com/articles/microservice-testing>



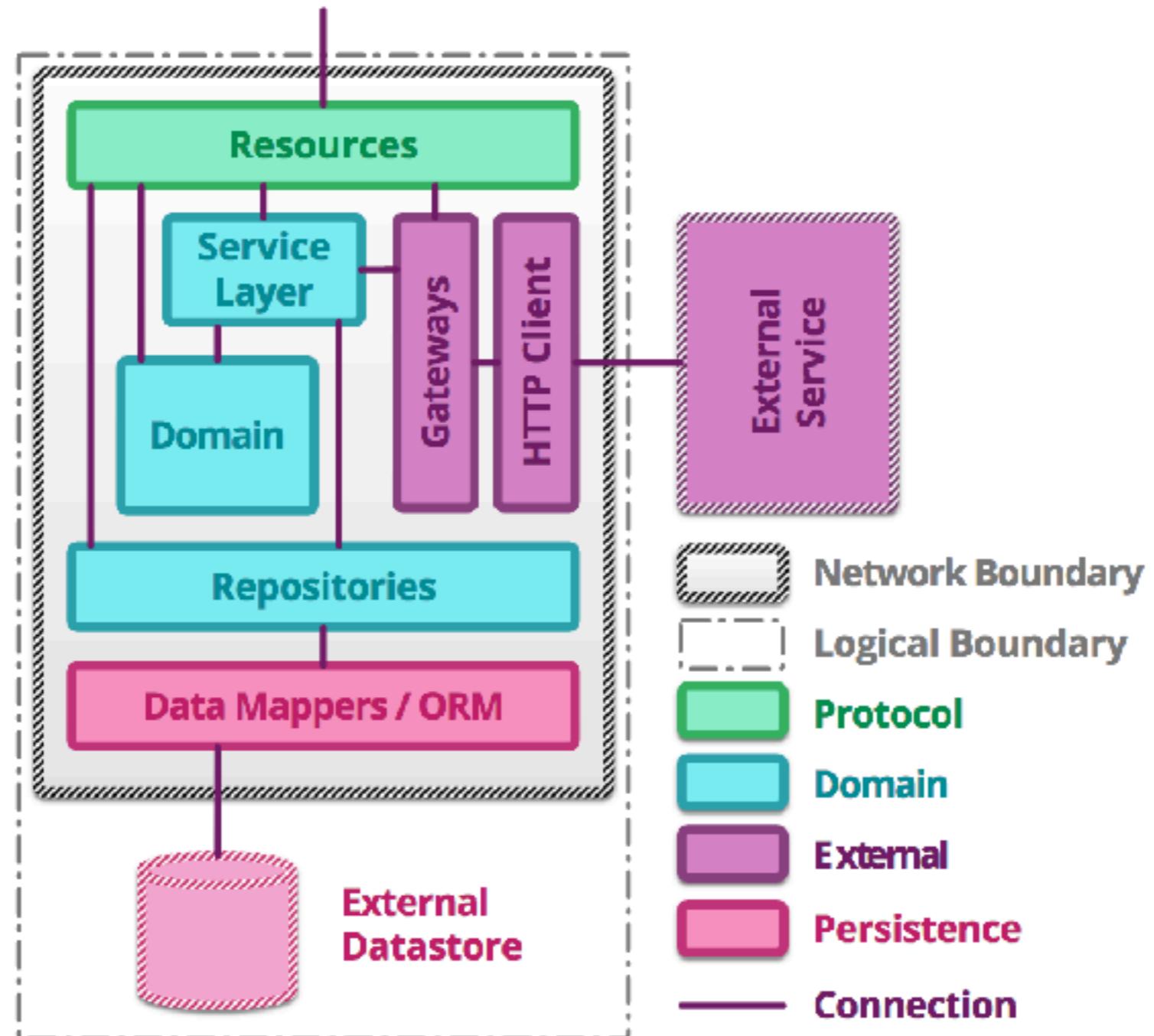
Integration Testing



<https://martinfowler.com/articles/microservice-testing>



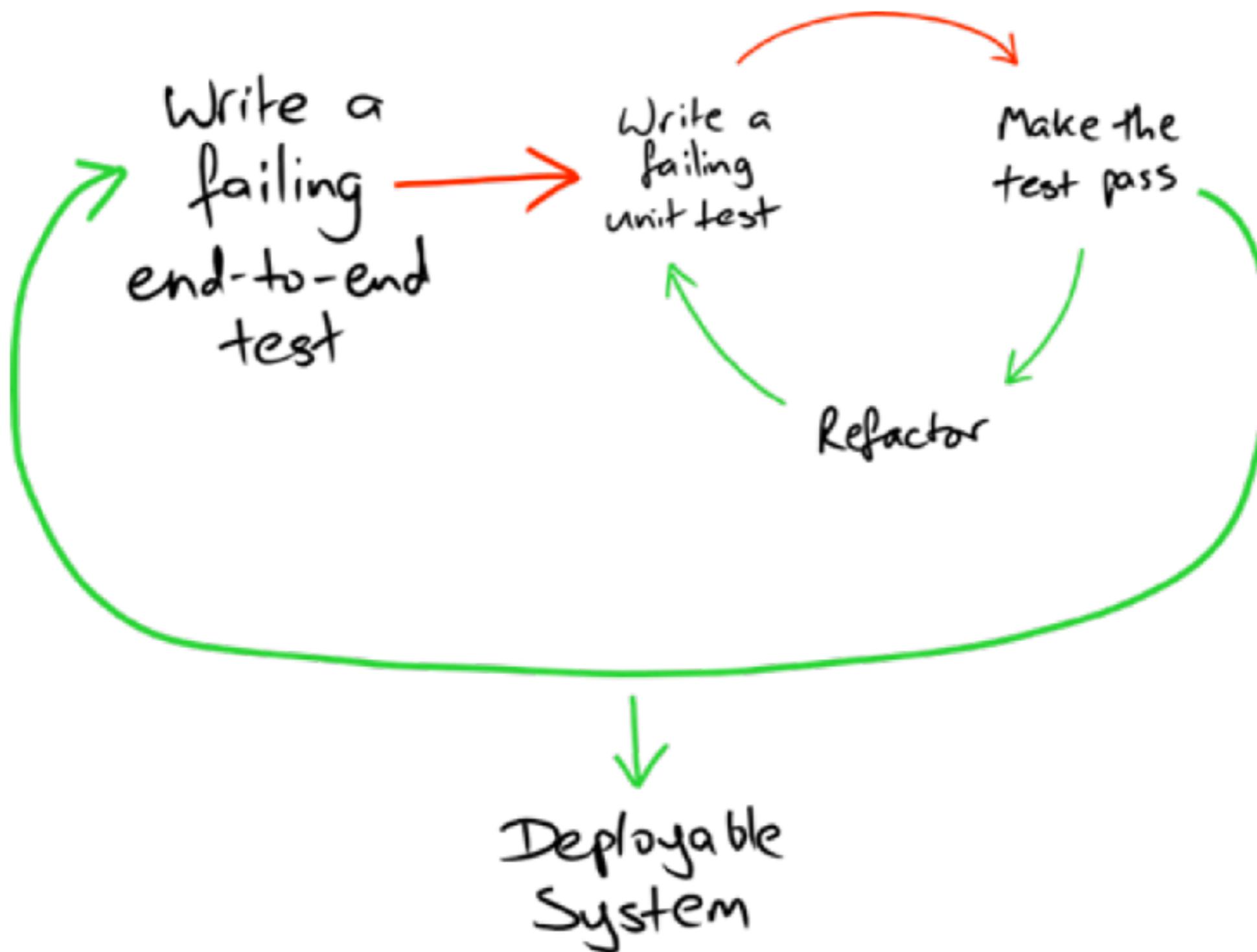
Acceptance Testing



<https://martinfowler.com/articles/microservice-testing>



Step to develop with Testing



Step to develop with Testing

1. Resource Testing
2. Service Testing
3. Integration Testing
4. Acceptance Testing



Rules

Write a test

Run the test

Write the code

Run the test

Refactor

Repeat



Write a test ?

Resource	Path	Method	Description
parking lot	/parking_lot/available	GET	List of available parking lot
parking lot	/parking_lot/available/:level	GET	List of available parking lot by level
parking lot	/parking_lot/booking/:position	PUT	Booking parking lot by position



Resource Testing



Resource Testing

Postman

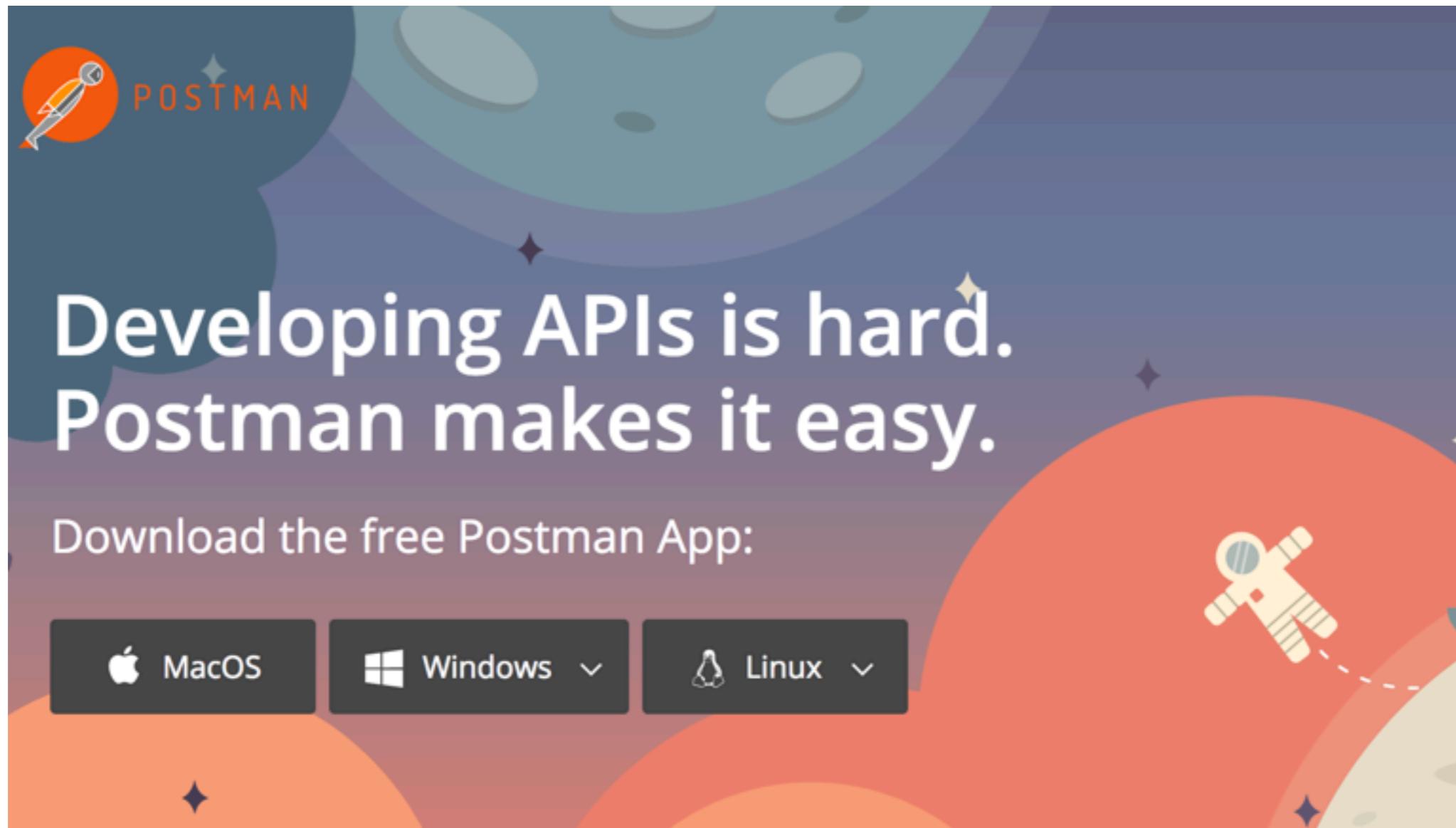
Silk

REST assured



Testing with Postman

<https://www.getpostman.com/>



Workshop



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Testing with Silk

<https://github.com/matryer/silk>

Markdown based document driven
Easy to read and execute



Install Silk

```
$go get github.com/matryer/silk
```



Run Silk

\$silk



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Run Silk

```
$go env  
  
GOARCH="amd64"  
GOBIN=""  
GOEXE=""  
GOHOSTARCH="amd64"  
GOHOSTOS="darwin"  
GOOS="darwin"  
GOPATH="/Users/somkiat/go"  
GORACE=""  
GOROOT="/usr/local/Cellar/go/1.8.3/libexec"
```



Run Silk

```
$set PATH=.;<GOPATH>;%PATH%
```

```
$export PATH=.:<GOPATH>:$PATH
```



Run Silk

```
$silk -silk.url=<server> <testfiles>
```



Workshop



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Testing with REST-assured

<http://rest-assured.io/>

Java DSL for easy testing of REST service
Build on top **HTTP builder**
Validate and verify the response



Run REST assured

\$mvn test



Run REST assured

```
$mvn test -Dserver.host=<your host>  
-Dserver.port=<your port>  
-Dserver.base=<base path>
```



Service Testing



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Integration Testing



Acceptance Testing

