

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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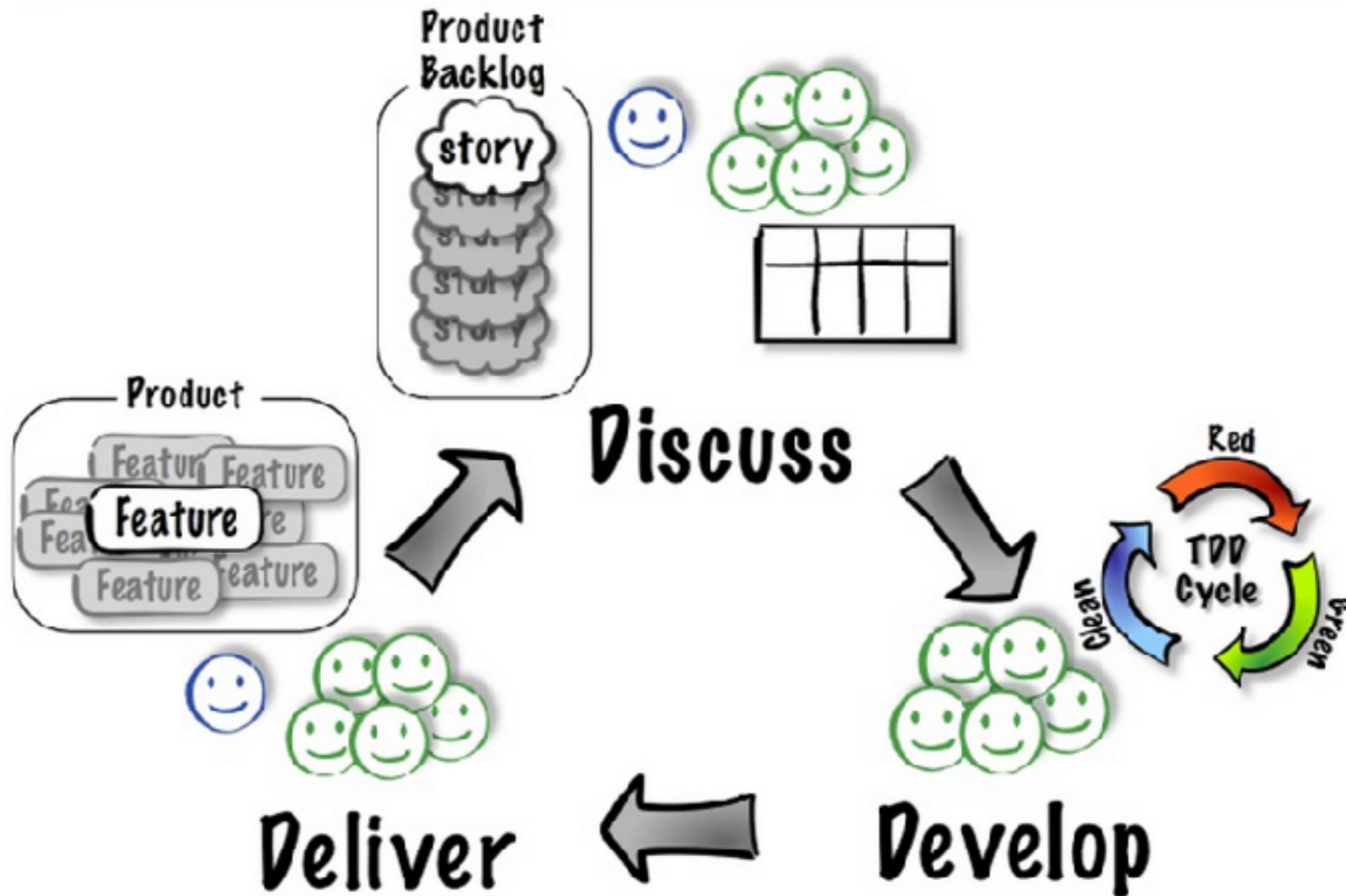
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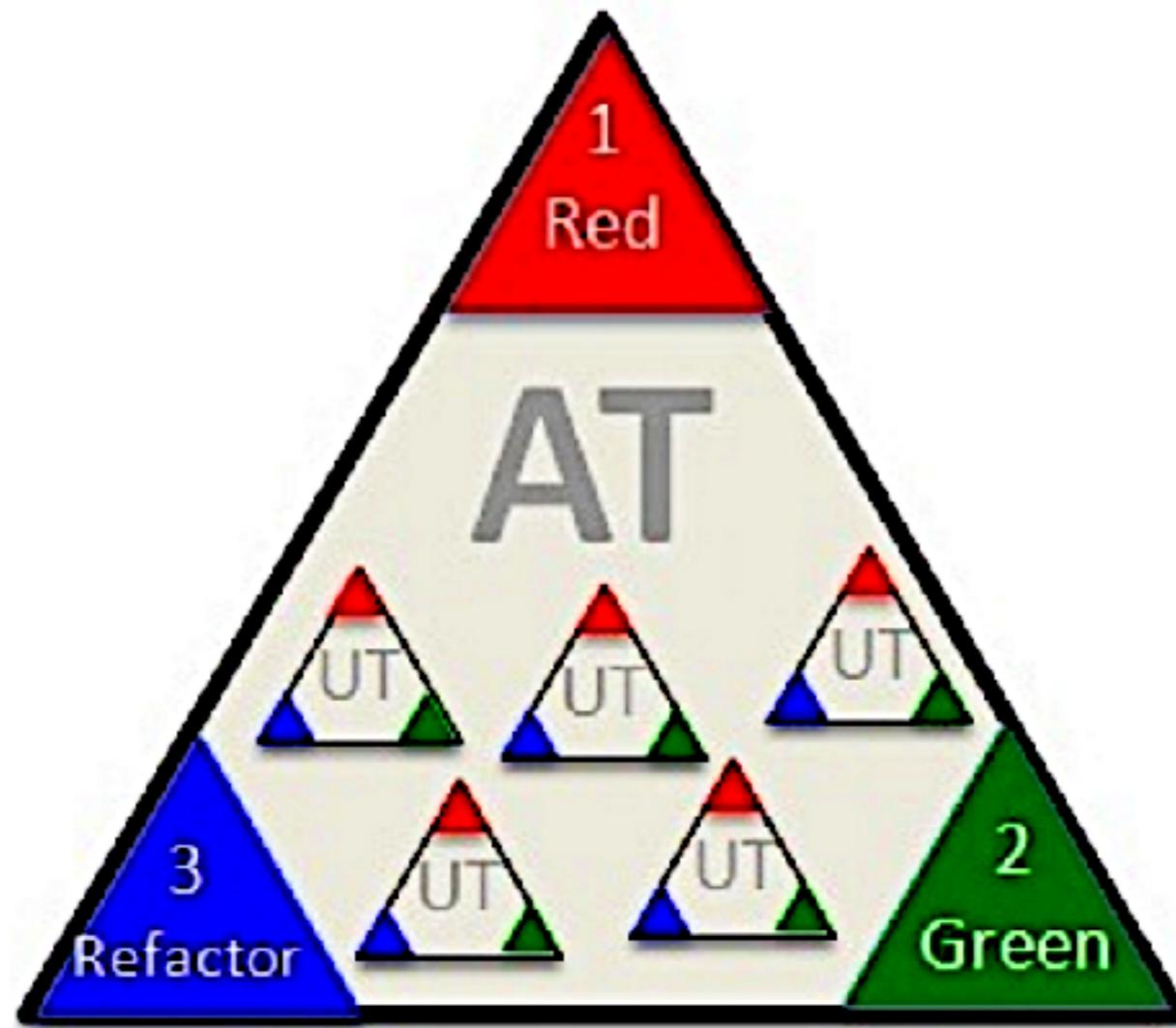
ATDD Cycle



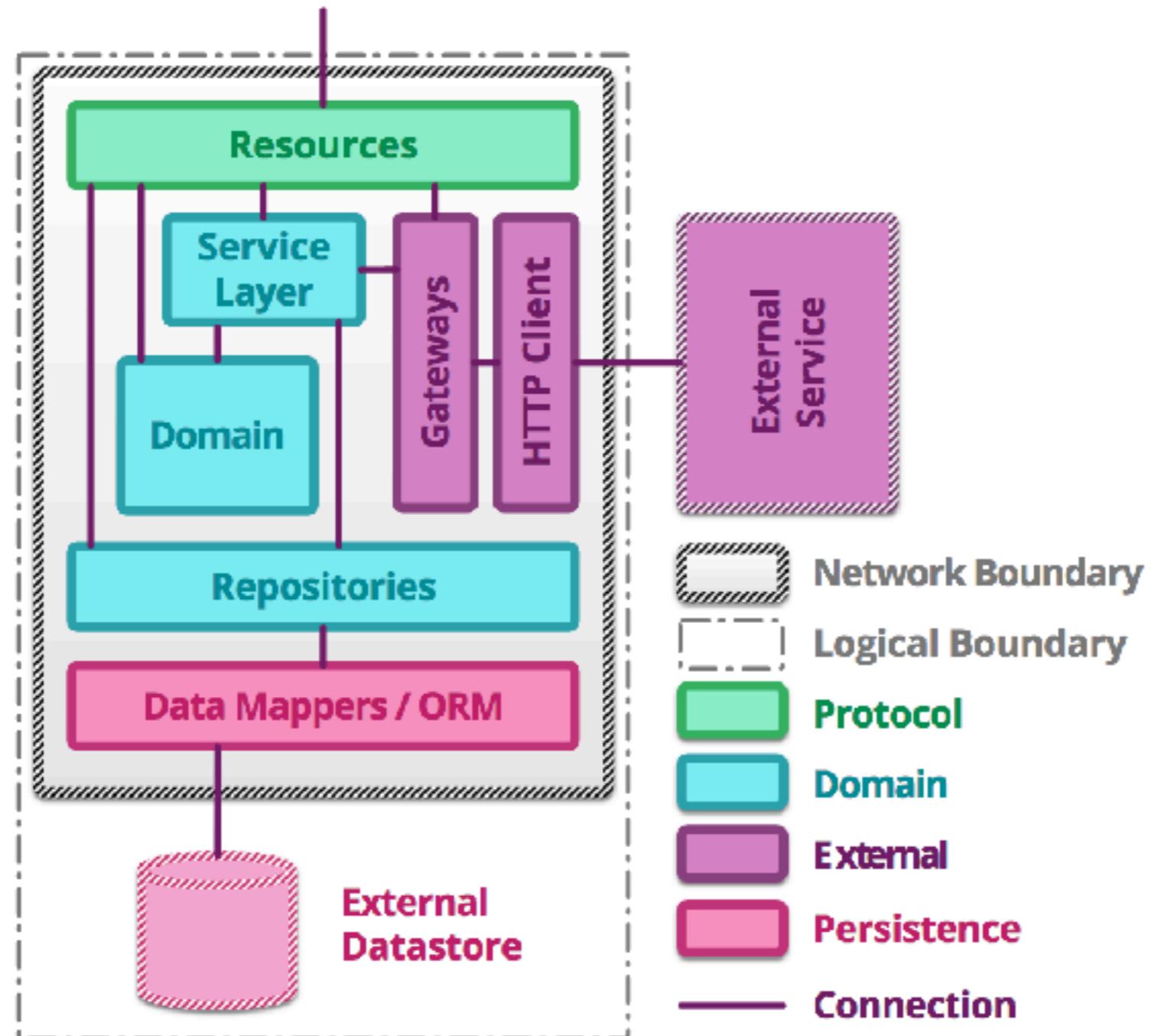
(Model developed with Pekka Klärck, Bas Vodde, and Craig Larman.)



ATDD



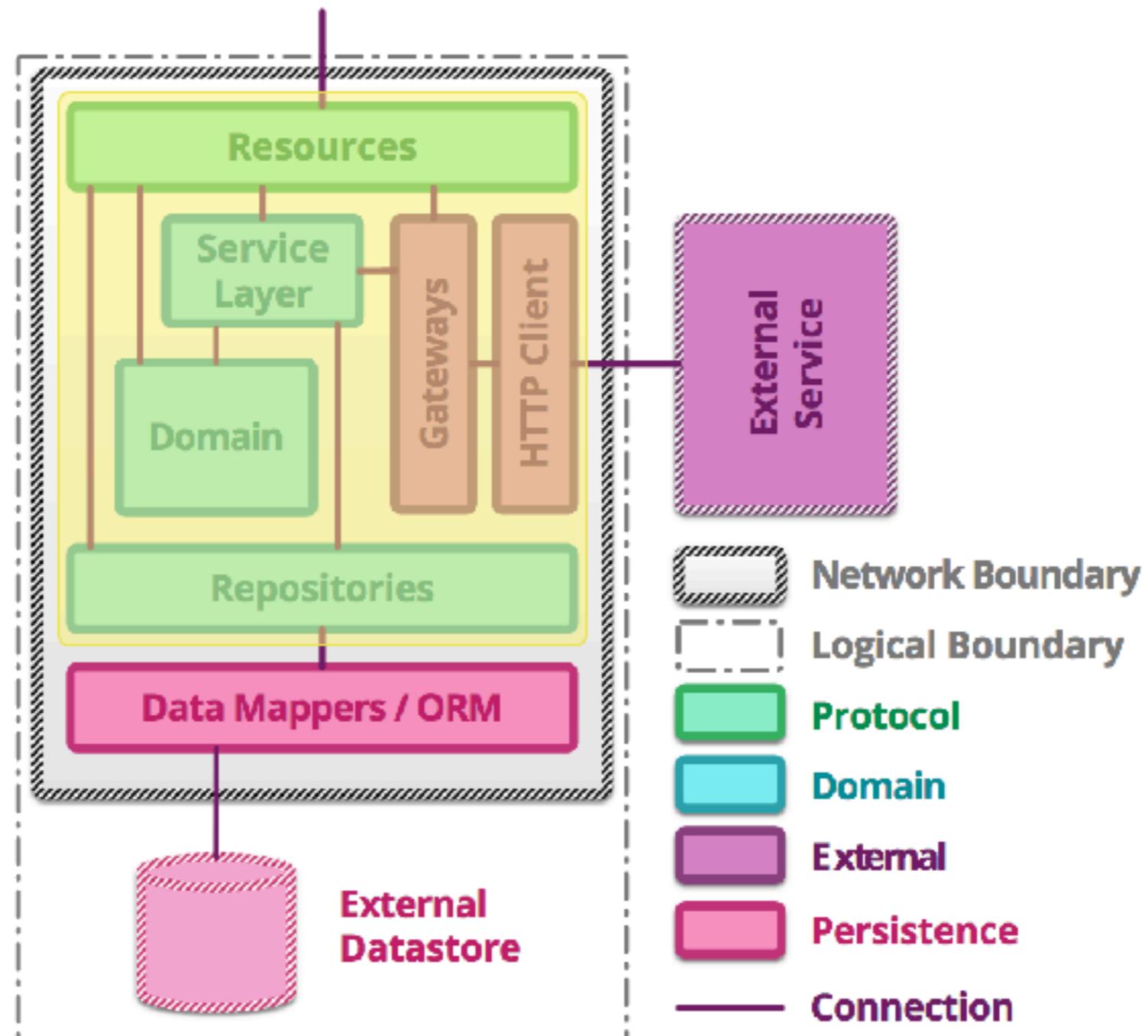
Develop REST APIs



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



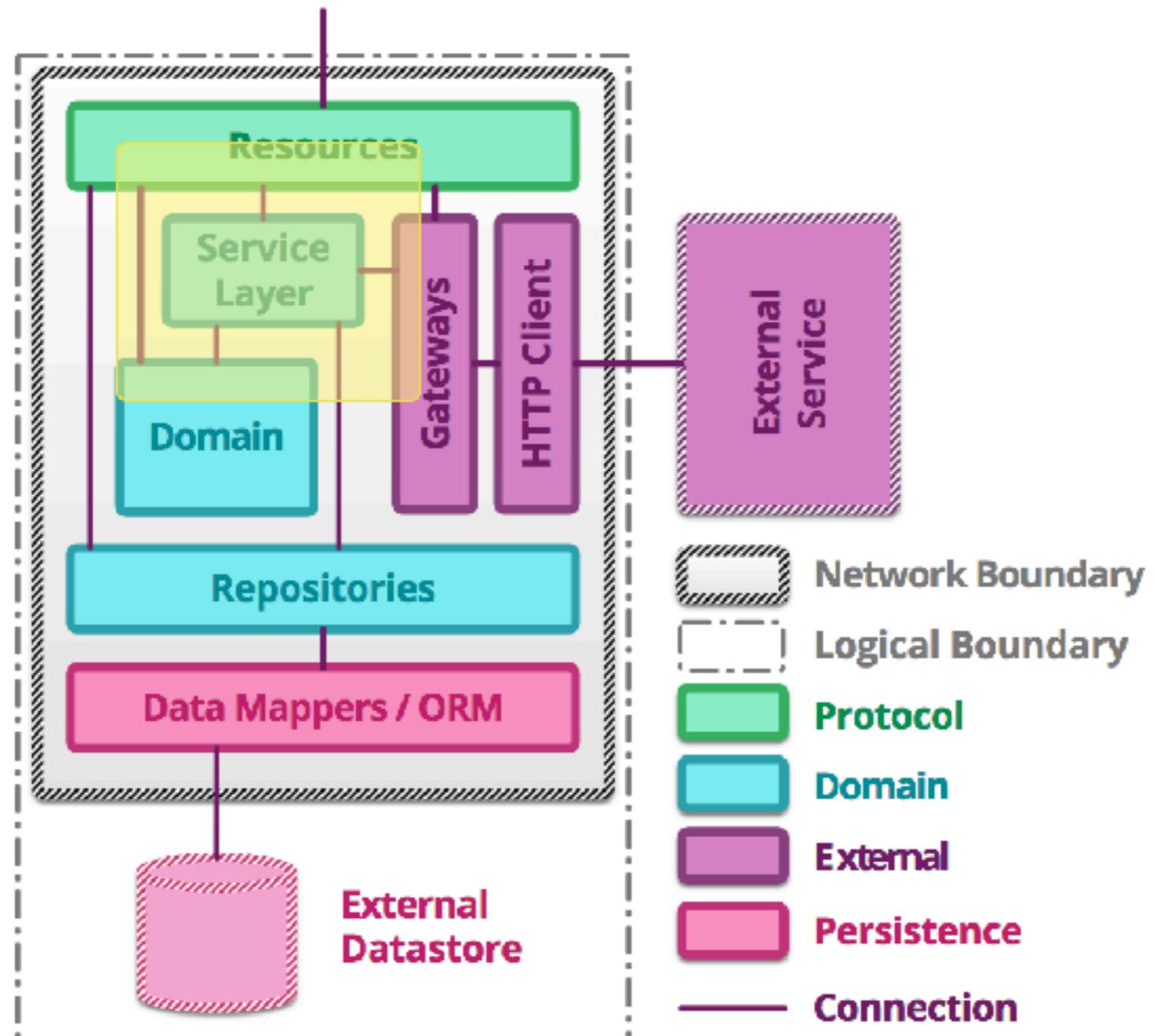
Resources Testing



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



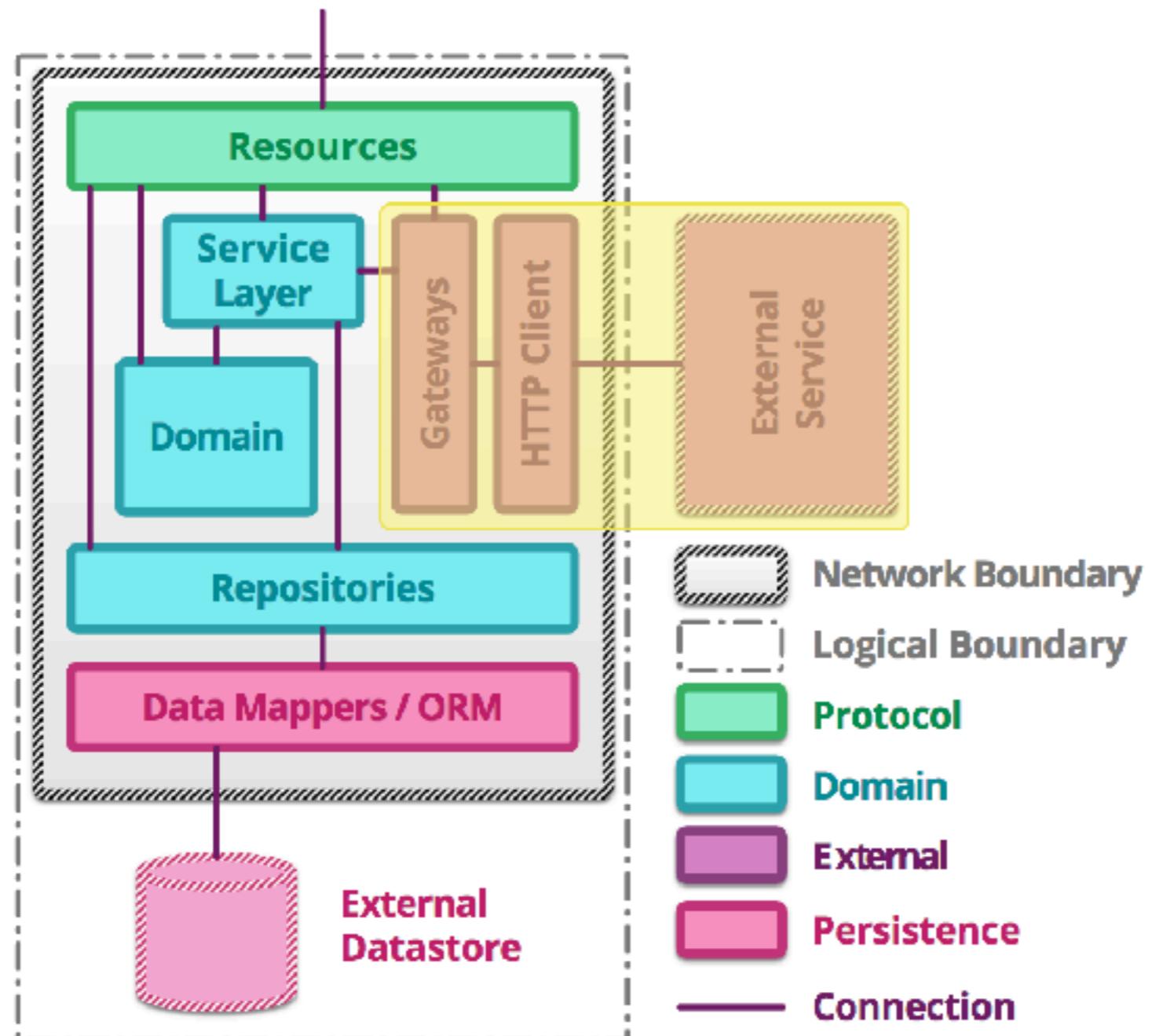
Services Testing



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



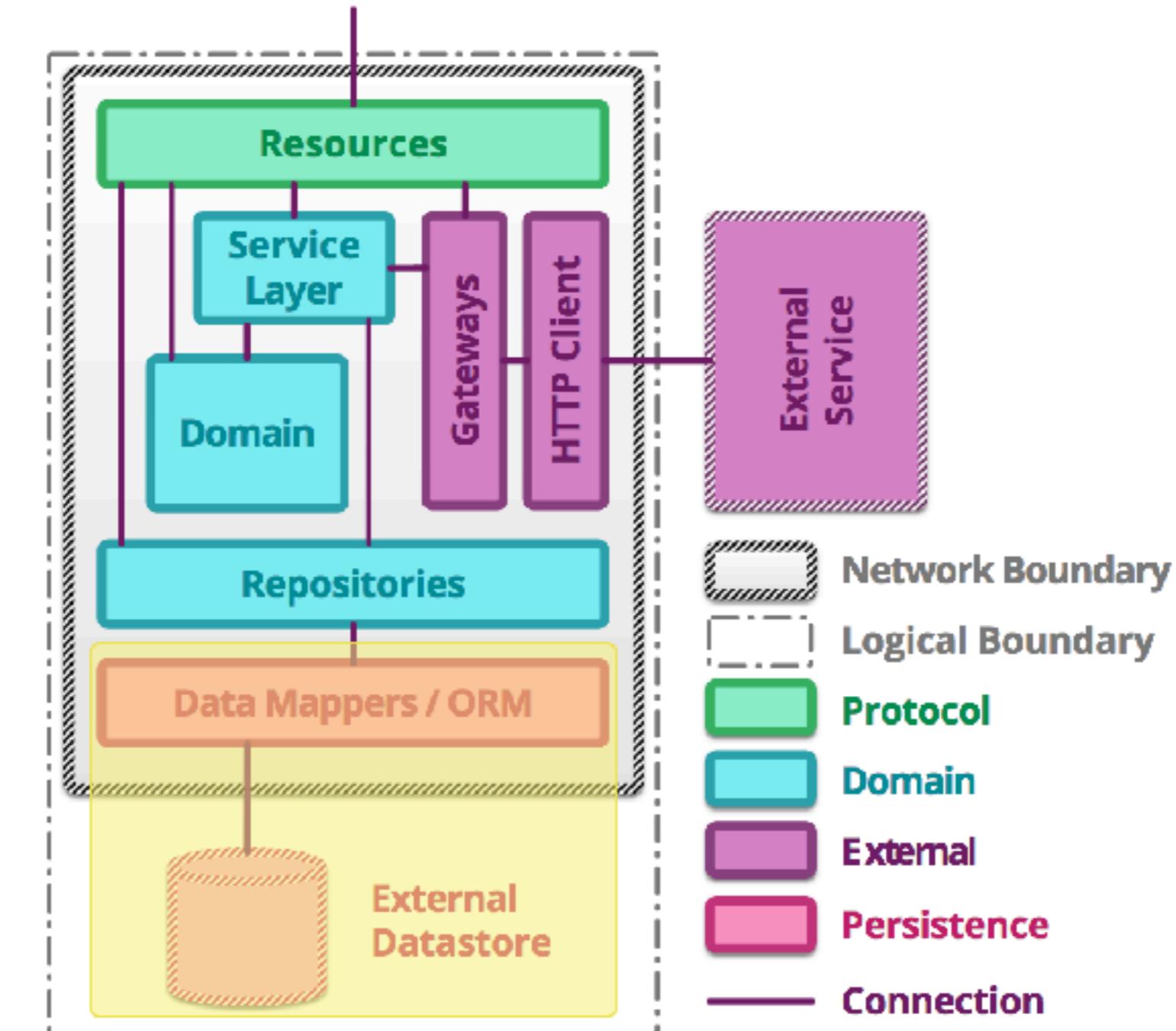
Integration Testing



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



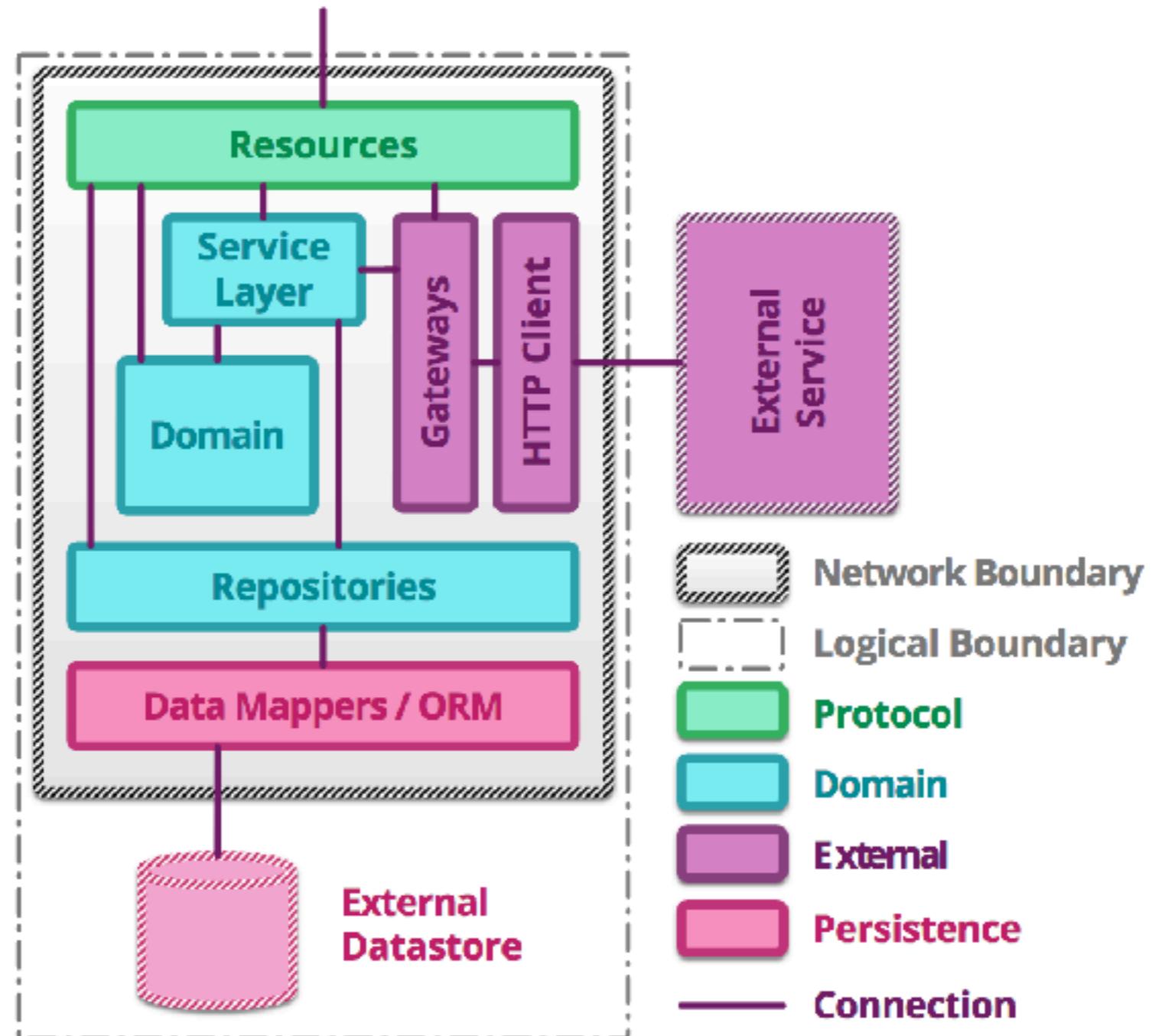
Integration Testing



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



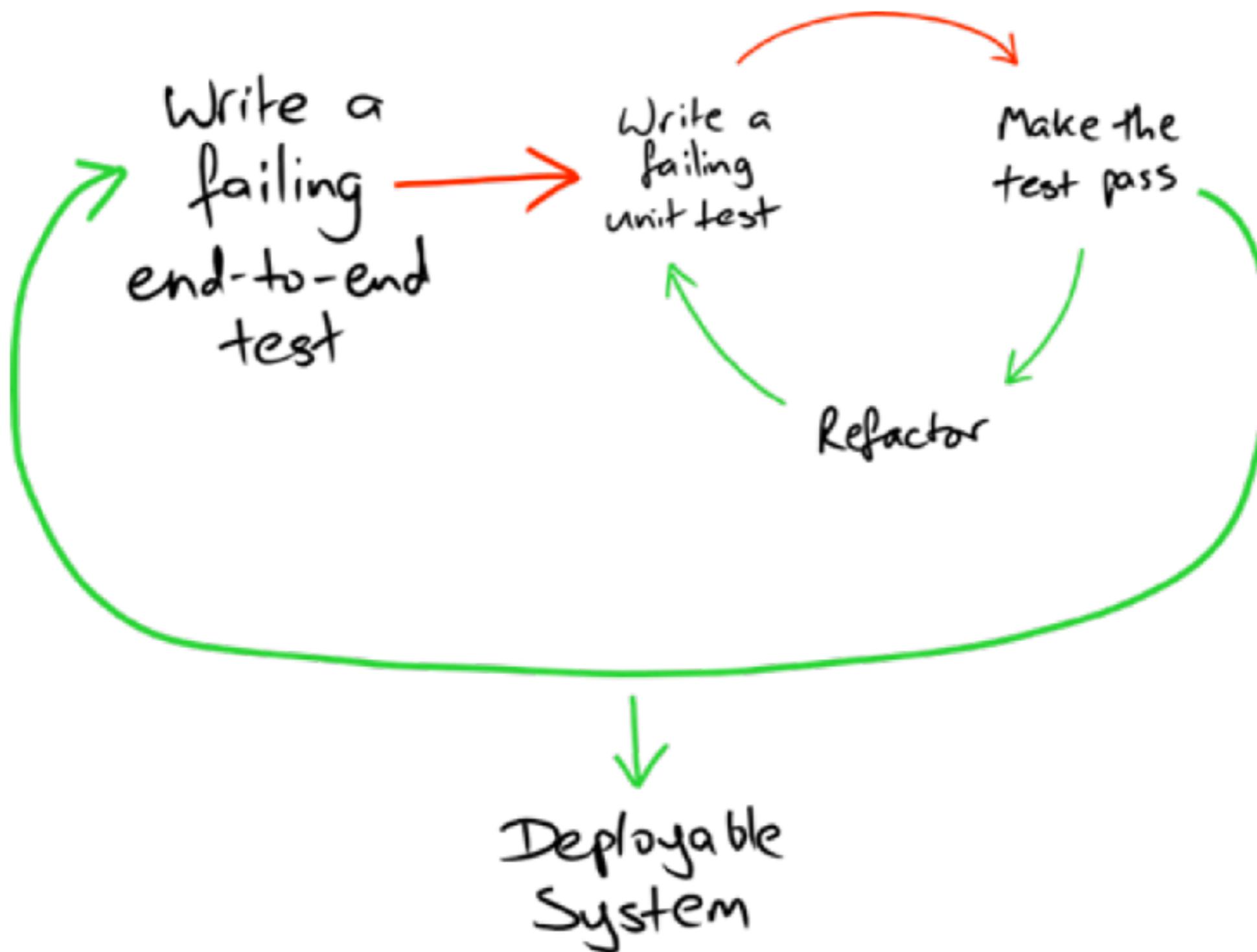
Acceptance Testing



<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

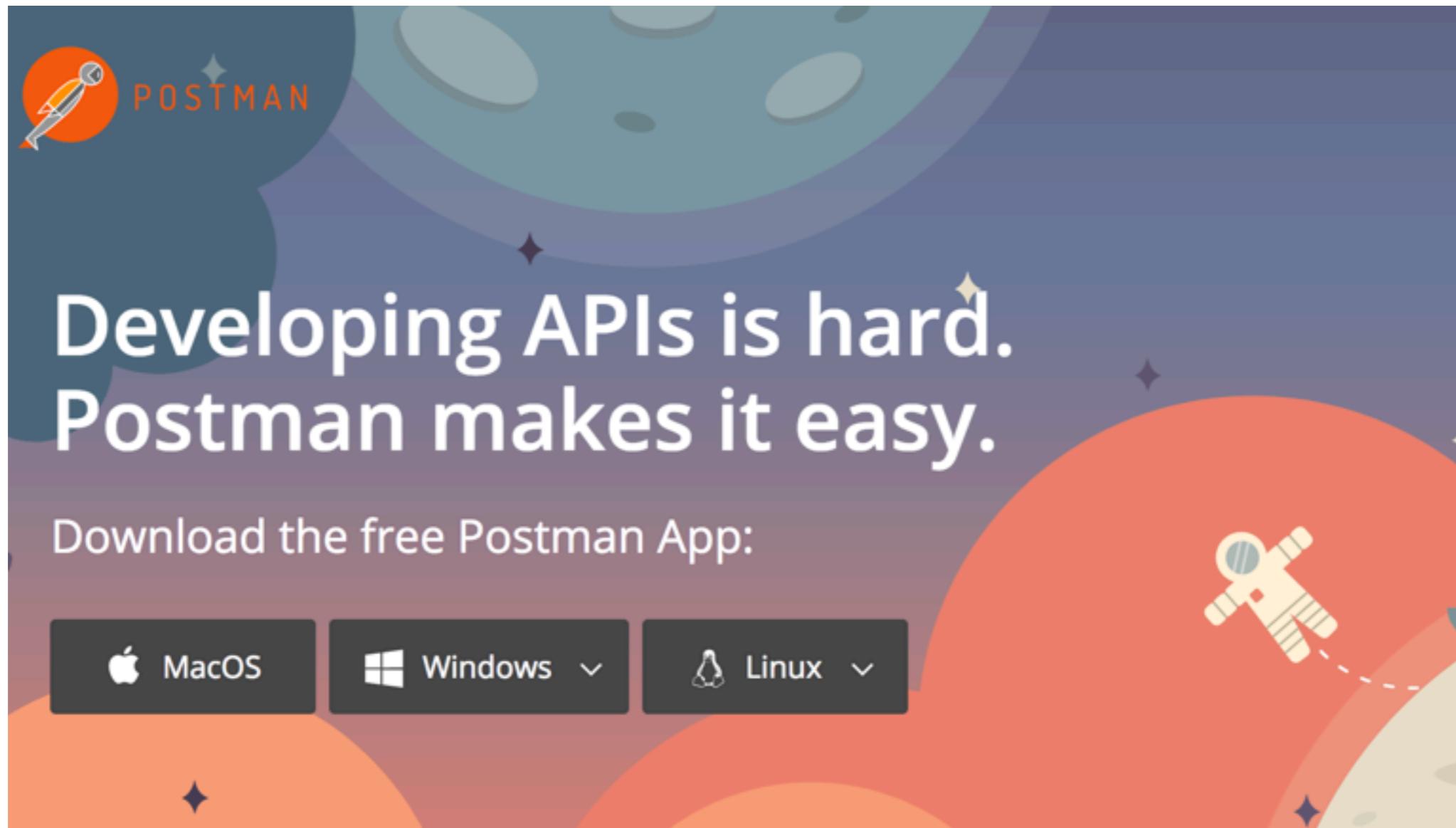
Silk

REST assured



Testing with Postman

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



Postman in the Right way

Add test cases

Save to collection

Collection runner

Export/Import a collection

Manage environment

Export/Import environment

Working with **newman** command



Workshop



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Testing with Silk

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

Markdown based document driven
Easy to read and execute



Syntaxs

Syntax	Description	Example
#	Grouping	# Group 01
##	Request section	## GET /resource
==	End of request	
###	Response session	### Success response
```json ```	Body in JSON format	
* Key: value	Header and assertion	* Status: 200
* ?param=value	Request parameter	* ?user=1



# Install Golang

Go      [Documents](#) [Packages](#) [The Project](#) [Help](#) [Blog](#) [Search](#)

**Try Go**      [Pop-out ↗](#)

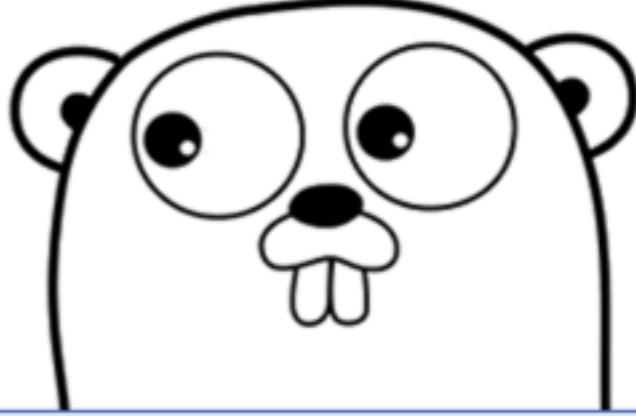
```
// You can edit this code!
// Click here and start typing.
package main

import "fmt"

func main() {
 fmt.Println("Hello, 世界")
}
```

Hello, World! ▾      [Run](#) [Share](#) [Tour](#)

Go is an open source programming language that makes it easy to build simple, reliable, and efficient software.



**Download Go**  
Binary distributions available for Linux, Mac OS X, Windows, and more.

<https://golang.org/>



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# 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>\bin;%PATH%
```

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

