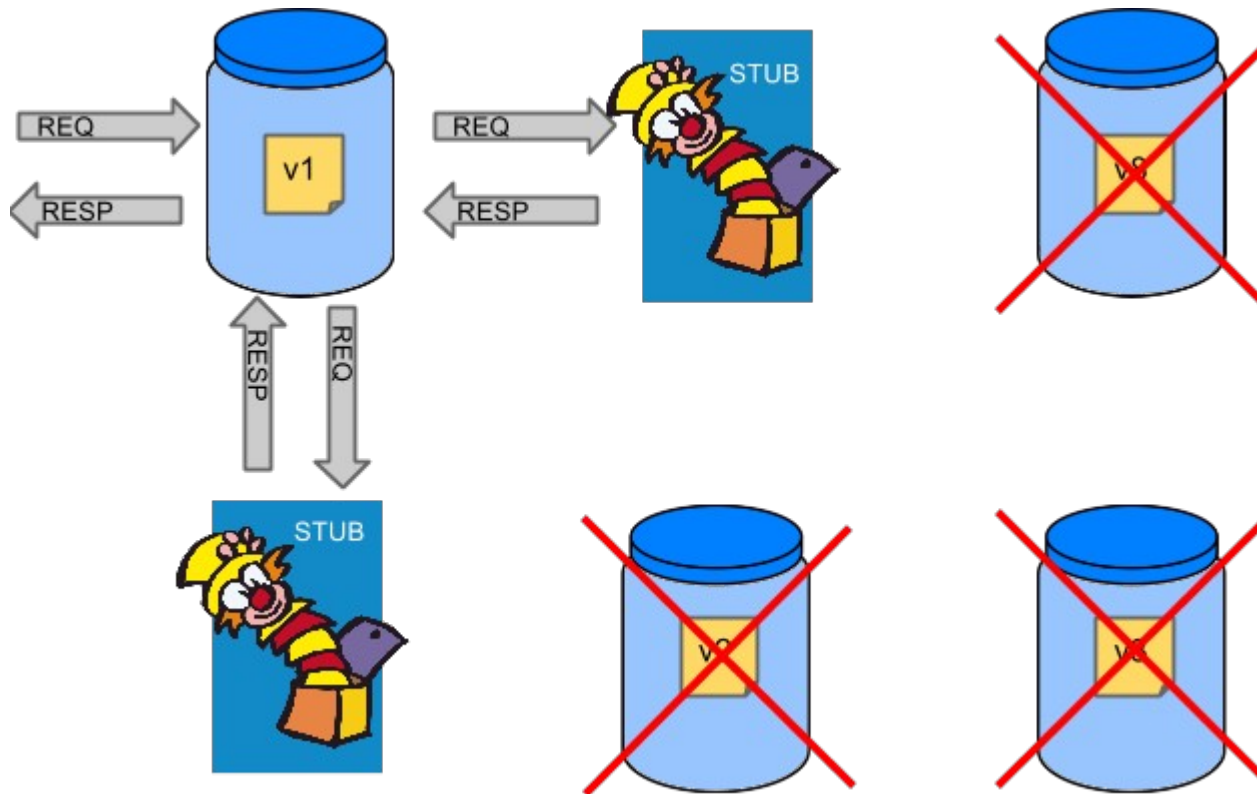


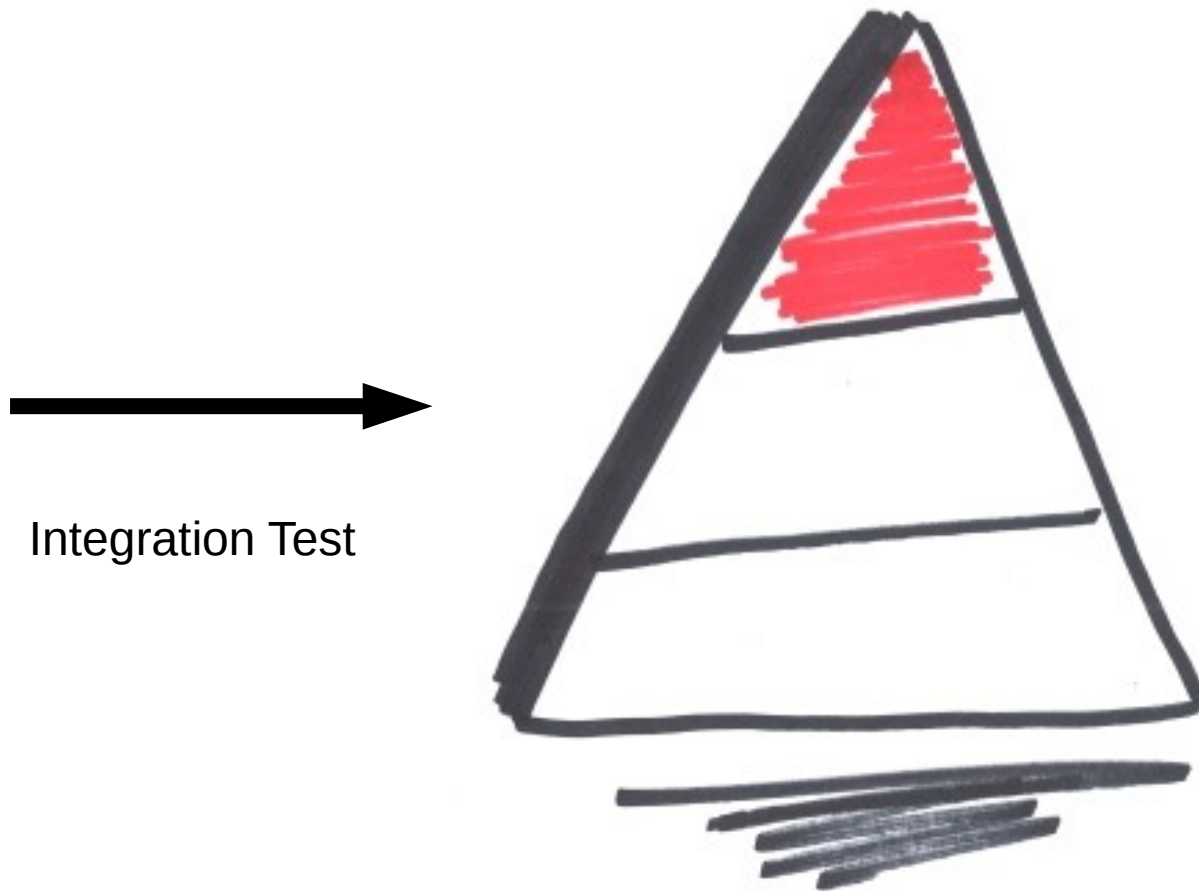
# Spring Cloud Contract



# Agenda

- Pyramid of Testing
- The Pipeline
- The solution
- Advantages
- Demo
- Links of interest

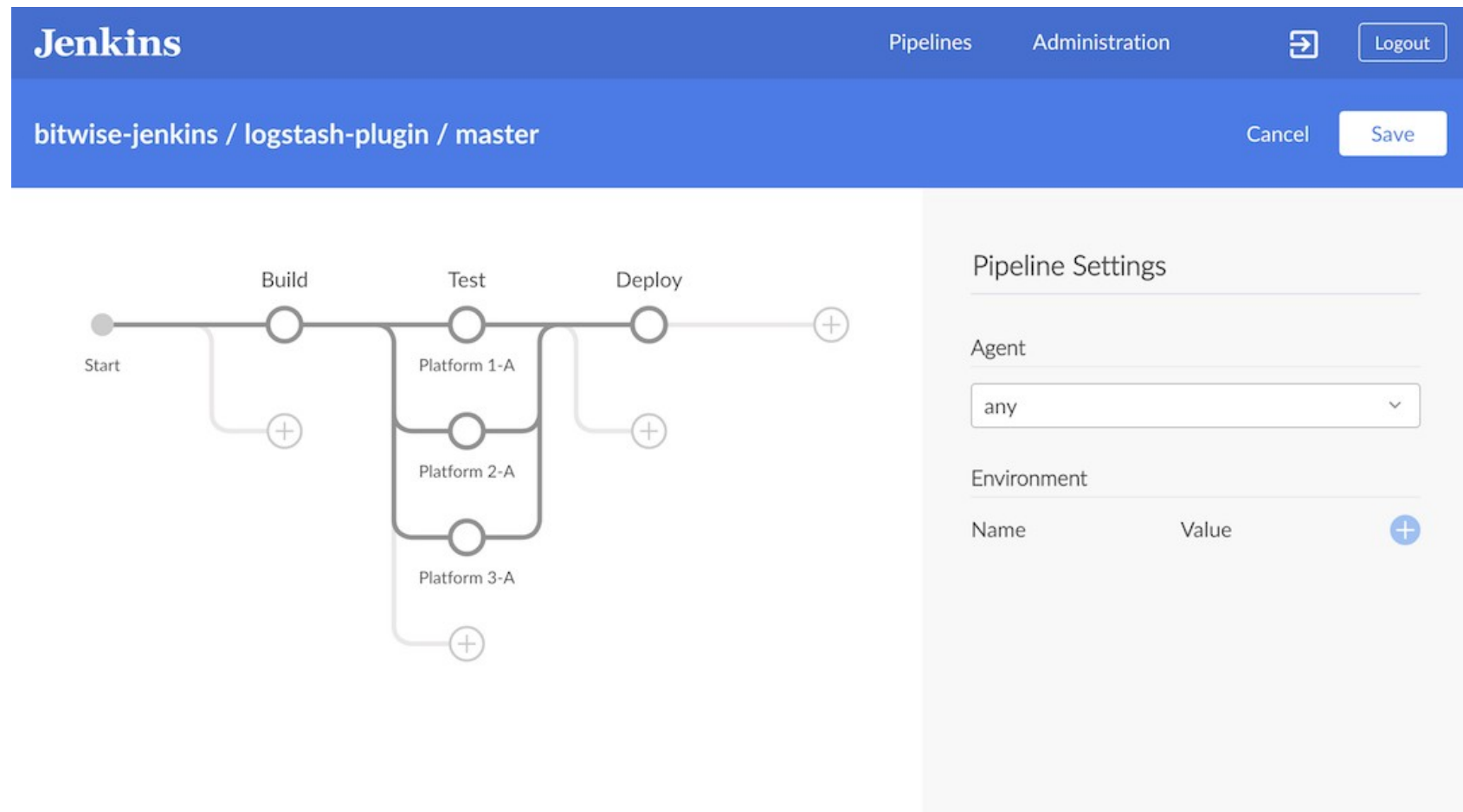
# Pyramid of Testing



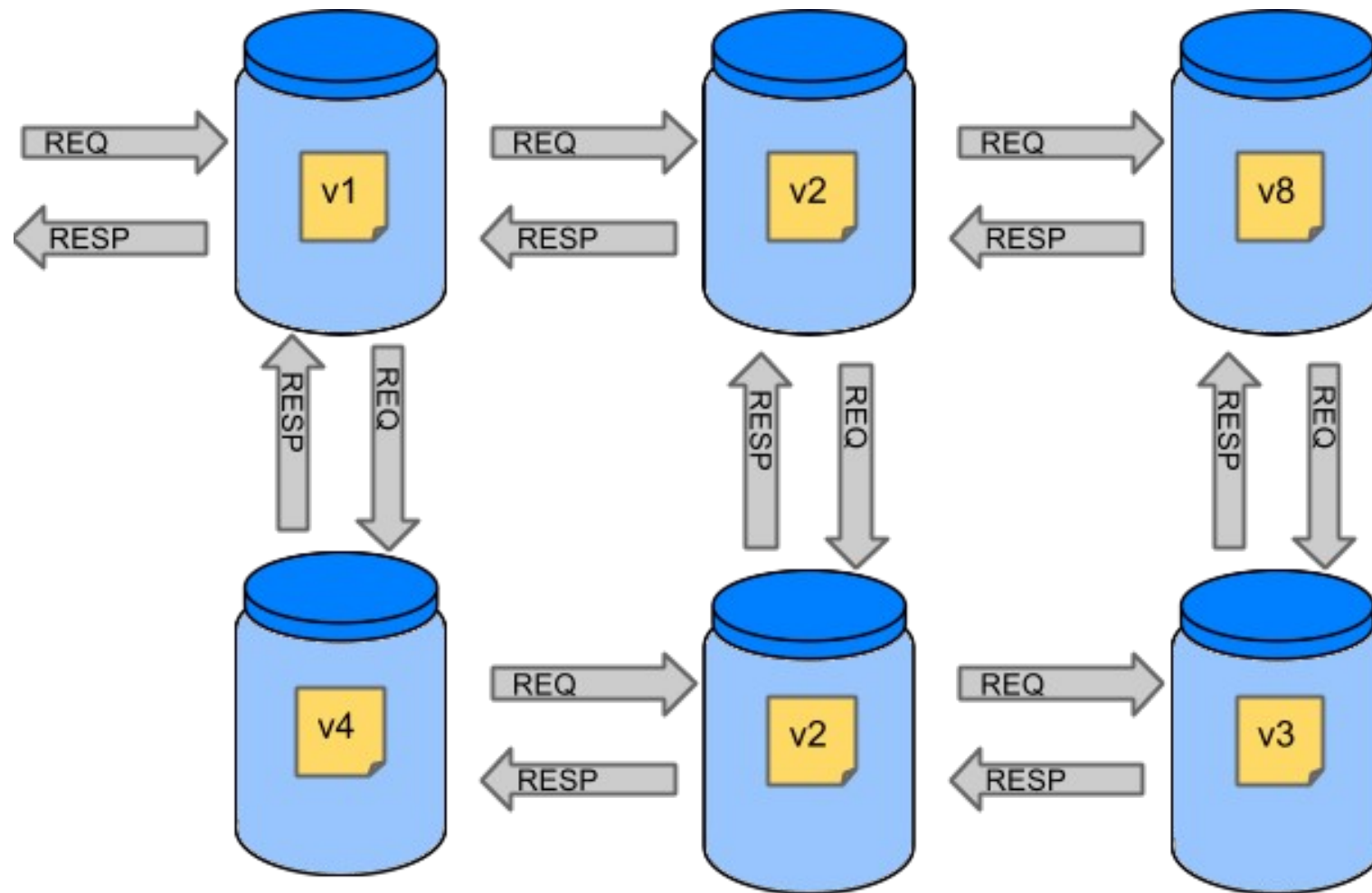
# Pyramid of Testing

	E2E Tests	Mock Tests	CDC Tests
Isolation	-	+	+
Complexity	-	+	+
Test Data Setup	-	+	+
Testing Data Semantics	+	-	-
Feedback Time	-	+	+
Stability	-	+	+
Reveal Unused Interfaces	-	-	+
Well-Fittedness	-	-	+
Unknown Consumers	+	+	-

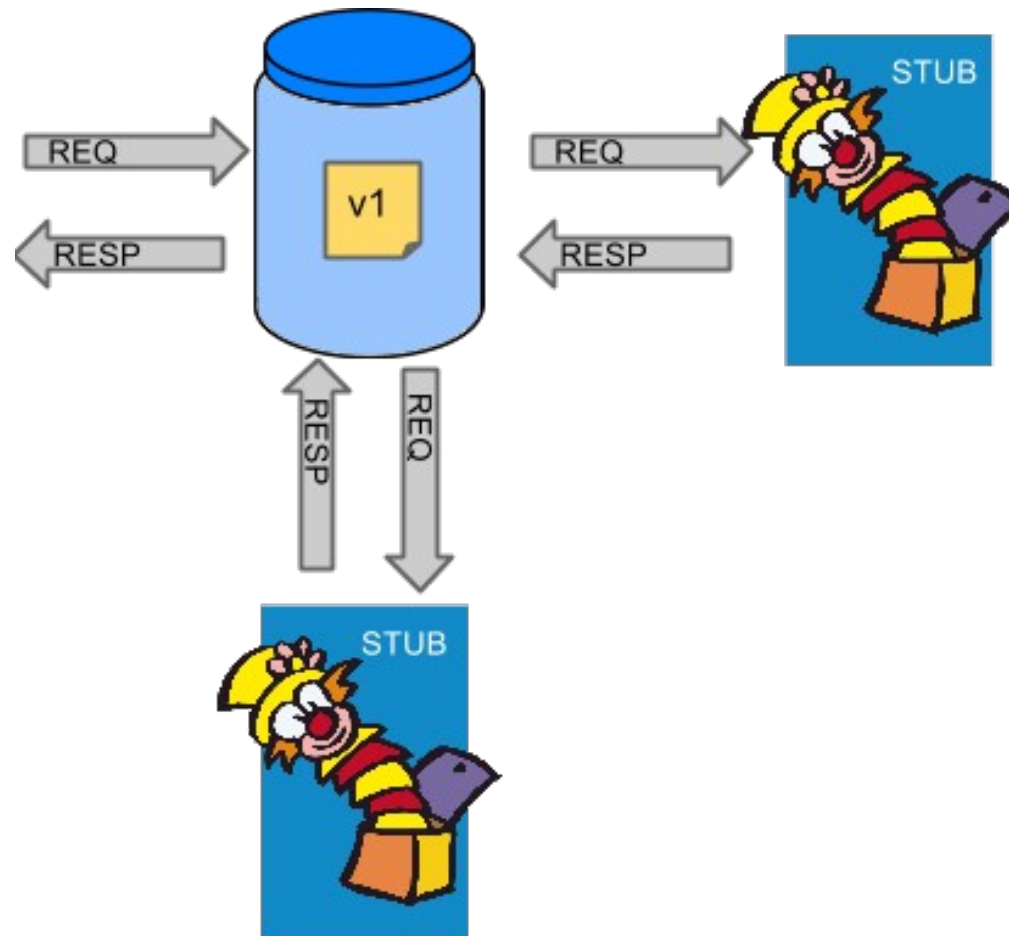
# The pipeline



# The Pipeline



# The Pipeline



# The solution

- Spring Cloud Contract
  - You always need confidence when pushing new features into a new application or service in a distributed system. To that end, this project provides support for Consumer-driven Contracts and service schemas in Spring applications, covering a range of options for writing tests, publishing them as assets, and asserting that a contract is kept by producers and consumers — for both HTTP and message-based interactions.



# Advantages

- TDD Approach
  - Contract first
- Not follow a Waterfall approach in any environment
- Social Skills
- Better knowledge about your dependencies
- More complete tests

# Links of Interest

- <https://www.thoughtworks.com/radar/techniques/consumer-driven-contract-testing>
- <https://martinfowler.com/articles/consumerDrivenContracts.html>
- <https://martinfowler.com/articles/microservice-testing/>
- <https://reflectoring.io/7-reasons-for-consumer-driven-contracts/>
- <http://www.servicedesignpatterns.com/WebServiceEvolution/ConsumerDrivenContracts>
-

# Links of Interest

- <http://cloud.spring.io/spring-cloud-static/spring-cloud-contract/2.0.0.M5/single/spring-cloud-contract.html>
- <https://cloud.spring.io/spring-cloud-contract/>
- <https://github.com/spring-cloud/spring-cloud-contract>