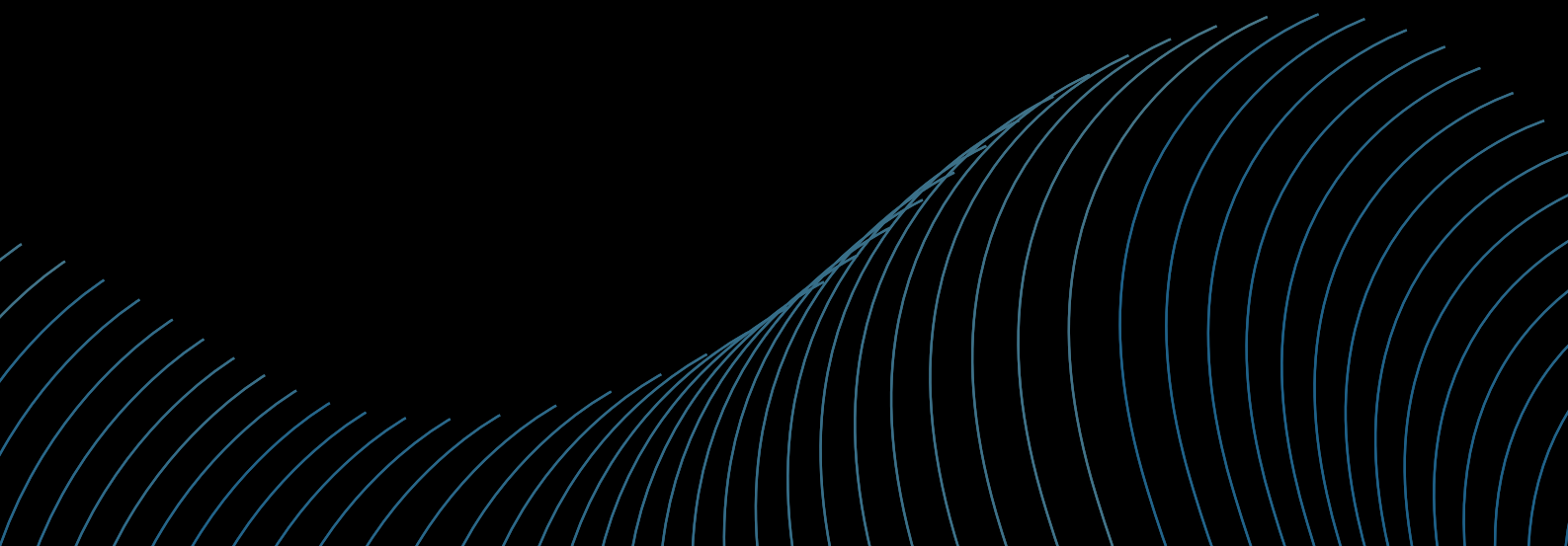
HYPERTEST

CONTRACT TESTING

A Quick Overview:

Comparing PACT Contract Testing and HyperTest

Say goodbye to manual testing struggles in microservices with HyperTest, your PACT savior



Comparison between PACT Contract Testing and HyperTest

Feature/Aspect	PACT Contract Testing	HyperTest
Approach to Integration Testing	Requires manual setup and maintenance of contracts between services.	Automatically generates and maintains contracts by monitoring real-world scenarios from production traffic.
Modes of Operation	Typically involves defining consumer-provider interactions explicitly in PACT files.	Operates in two modes: Captures integration scenarios with contracts from traffic in record mode for a service, then replays these scenarios with mocked responses (contracts) to catch regression
Dependency Management	Limited to defined consumer-provider contracts. Any changes require manual updates.	Autonomously identifies all consumer - provider pairs and maintains contracts between them without manual intervention.
Ease of Use & Maintenance	Every contract change needs to be updated to the PACT file, failing so misses errors.	Approving a change notifies the upstream or downstream owner of a new contract making their tests work against new contracts automatically
Real-world Scenario Testing	Limited by the scenarios defined in the PACT files.	Captures and tests against a wide range of real-world scenarios, ensuring comprehensive coverage and reduced risk of missed cases.
Collaboration & Communication	Collaboration mainly through shared contract files and communication is manual.	Upstream and downstream service owners get notified on slack after every contract change.
Regression Detection	Only catches contract failures but will fail to catch data errors even if contracts are valid	Catches data errors that PACT will fail to report.
Confidence in Production Readiness	1. Will depend on the coverage of the unit tests / API tests that the contract supports 2. Will fail to report data errors	1. Will build very high coverage integration tests using network 2. Will catch data errors that PACT will fail to report

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