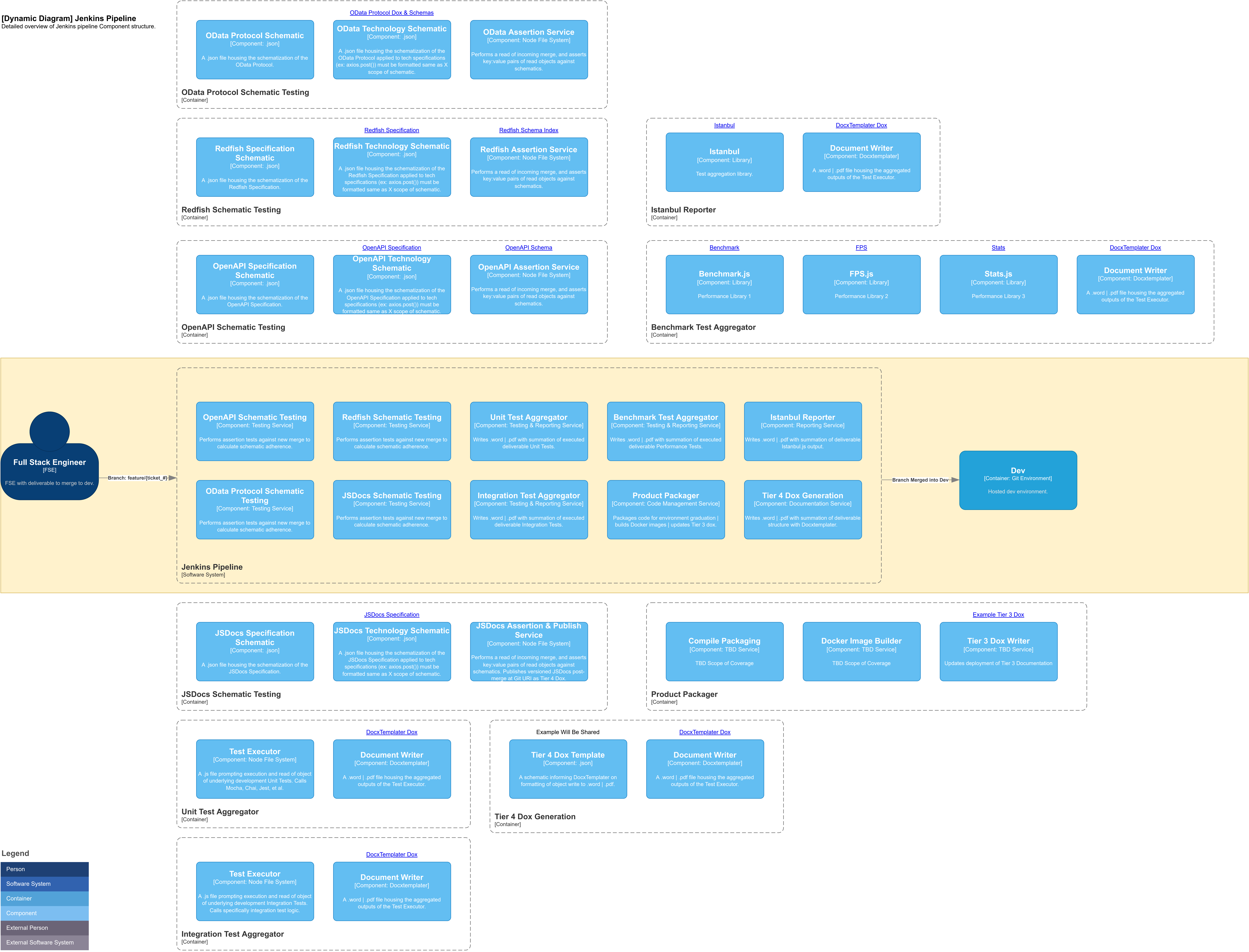
[Dynamic Diagram] Jenkins Pipeline

Detailed overview of Jenkins pipeline Component structure.



OData Protocol Dox & Schemas

OData Protocol Schematic
[Component: .json]
A .json file housing the schematization of the OData Protocol.

OData Technology Schematic
[Component: .json]
A .json file housing the schematization of the OData Protocol applied to tech specifications (ex: axios.post()) must be formatted same as X scope of schematic.

OData Assertion Service
[Component: Node File System]
Performs a read of incoming merge, and asserts key:value pairs of read objects against schematics.

OData Protocol Schematic Testing
[Container]

Redfish Specification

Redfish Schema Index

Redfish Specification Schematic
[Component: .json]
A .json file housing the schematization of the Redfish Specification.

Redfish Technology Schematic
[Component: .json]
A .json file housing the schematization of the Redfish Specification applied to tech specifications (ex: axios.post()) must be formatted same as X scope of schematic.

Redfish Assertion Service
[Component: Node File System]
Performs a read of incoming merge, and asserts key:value pairs of read objects against schematics.

Redfish Schematic Testing
[Container]

Istanbul

DocxTemplater Dox

Istanbul
[Component: Library]
Test aggregation library.

Document Writer
[Component: Docxtemplater]
A .word | .pdf file housing the aggregated outputs of the Test Executor.

Istanbul Reporter
[Container]

OpenAPI Specification

OpenAPI Schema

OpenAPI Specification Schematic
[Component: .json]
A .json file housing the schematization of the OpenAPI Specification.

OpenAPI Technology Schematic
[Component: .json]
A .json file housing the schematization of the OpenAPI Specification applied to tech specifications (ex: axios.post()) must be formatted same as X scope of schematic.

OpenAPI Assertion Service
[Component: Node File System]
Performs a read of incoming merge, and asserts key:value pairs of read objects against schematics.

OpenAPI Schematic Testing
[Container]

Benchmark

FPS

Stats

DocxTemplater Dox

Benchmark.js
[Component: Library]
Performance Library 1

FPS.js
[Component: Library]
Performance Library 2

Stats.js
[Component: Library]
Performance Library 3

Document Writer
[Component: Docxtemplater]
A .word | .pdf file housing the aggregated outputs of the Test Executor.

Benchmark Test Aggregator
[Container]

Full Stack Engineer
[FSE]
FSE with deliverable to merge to dev.

Branch: feature/{ticket_#}

OpenAPI Schematic Testing
[Component: Testing Service]
Performs assertion tests against new merge to calculate schematic adherence.

Redfish Schematic Testing
[Component: Testing Service]
Performs assertion tests against new merge to calculate schematic adherence.

Unit Test Aggregator
[Component: Testing & Reporting Service]
Writes .word | .pdf with summation of executed deliverable Unit Tests.

Benchmark Test Aggregator
[Component: Testing & Reporting Service]
Writes .word | .pdf with summation of executed deliverable Performance Tests.

Istanbul Reporter
[Component: Reporting Service]
Writes .word | .pdf with summation of deliverable Istanbul.js output.

OData Protocol Schematic Testing
[Component: Testing Service]
Performs assertion tests against new merge to calculate schematic adherence.

JSDocs Schematic Testing
[Component: Testing Service]
Performs assertion tests against new merge to calculate schematic adherence.

Integration Test Aggregator
[Component: Testing & Reporting Service]
Writes .word | .pdf with summation of executed deliverable Integration Tests.

Product Packager
[Component: Code Management Service]
Packages code for environment graduation | builds Docker images | updates Tier 3 dox.

Tier 4 Dox Generation
[Component: Documentation Service]
Writes .word | .pdf with summation of deliverable structure with Docxtemplater.

Jenkins Pipeline
[Software System]

Branch Merged into Dev

Dev
[Container: Git Environment]
Hosted dev environment.

JSDocs Specification

JSDocs Specification Schematic
[Component: .json]
A .json file housing the schematization of the JSDocs Specification.

JSDocs Technology Schematic
[Component: .json]
A .json file housing the schematization of the JSDocs Specification applied to tech specifications (ex: axios.post()) must be formatted same as X scope of schematic.

JSDocs Assertion & Publish Service
[Component: Node File System]
Performs a read of incoming merge, and asserts key:value pairs of read objects against schematics. Publishes versioned JSDocs post-merge at Git URI as Tier 4 Dox.

JSDocs Schematic Testing
[Container]

Example Tier 3 Dox

Compile Packaging
[Component: TBD Service]
TBD Scope of Coverage

Docker Image Builder
[Component: TBD Service]
TBD Scope of Coverage

Tier 3 Dox Writer
[Component: TBD Service]
Updates deployment of Tier 3 Documentation

Product Packager
[Container]

DocxTemplater Dox

Test Executor
[Component: Node File System]
A .js file prompting execution and read of object of underlying development Unit Tests. Calls Mocha, Chai, Jest, et al.

Document Writer
[Component: Docxtemplater]
A .word | .pdf file housing the aggregated outputs of the Test Executor.

Unit Test Aggregator
[Container]

Example Will Be Shared

DocxTemplater Dox

Tier 4 Dox Template
[Component: .json]
A schematic informing DocxTemplater on formatting of object write to .word | .pdf.

Document Writer
[Component: Docxtemplater]
A .word | .pdf file housing the aggregated outputs of the Test Executor.

Tier 4 Dox Generation
[Container]

DocxTemplater Dox

Test Executor
[Component: Node File System]
A .js file prompting execution and read of object of underlying development Integration Tests. Calls specifically integration test logic.

Document Writer
[Component: Docxtemplater]
A .word | .pdf file housing the aggregated outputs of the Test Executor.

Integration Test Aggregator
[Container]

Legend

- Person
- Software System
- Container
- Component
- External Person
- External Software System