

Security & Testing

Last updated by | Daniels, Steve | Oct 23, 2025 at 6:53 PM GMT+5:30






Contents

- [SAST \(Static Application Security Testing\)](#)
 - [Sonarcloud](#)
 - [Dependabot](#)
 - [Snyk](#)
- [DAST \(Dynamic Application Security Testing\)](#)
 - [Automated Testing](#)
 - [UI](#)
 - [API / Functions](#)
 - [Automated Pentesting](#)
 - [Manual End User Testing](#)

SAST (Static Application Security Testing)

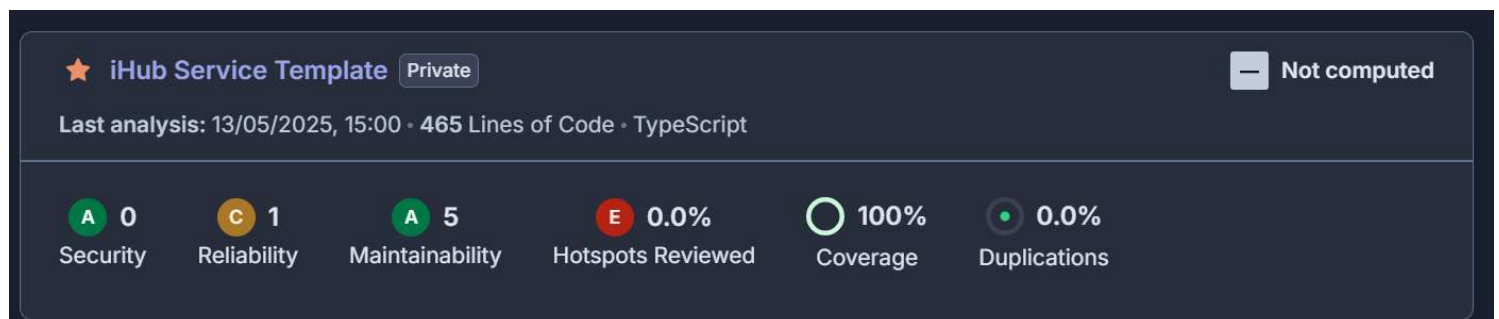
Sonarcloud

Work items:

-  55027 Sonar Cloud pipeline scanning (iHub) | Done
-  70759 Sonar Cloud pipeline scanning (Python) | Done
-  70761 Sonar Cloud pipeline scanning (React) | Done
-  70760 Sonar Cloud pipeline scanning (Azure Functions) | Done
-  85128 Sonar Cloud pipeline scanning (Q FE / API) | Done

We use SonarCloud to scan source code during development and this is checked during Pull Requests at iHub

- [Projects - iquw1856 organization - SonarQube Cloud](#)



Stages Jobs

✓ Quality Checks (V1)

4 jobs completed 2m 41s

🔊 100% tests passed

📦 1 artifact






✓ PR Terraform Check

1 job completed 1m 20s

📦 1 artifact

Dependabot

Work items:

-  48313 Vulnerabilities scanning (iHub) | Done
-  70762 Vulnerabilities Scanning (Python) | Done
-  70763 Vulnerabilities Scanning (React) | Done
-  67525 Vulnerabilities Scanning (Azure Functions) | Done
-  81543 Vulnerability Scanning (Dataiku) | New

We use Dependabot to scan source code for vulnerabilities

← **Jobs in run #20250515.1**
sanctions-service

Jobs		
✓	Dependabot	4m 51s
✓	Initialize job	<1s
✓	Checkout sanctions-service@tooli...	1s
✓	GoTool	<1s
✓	Dependabot	4m 49s
✓	Post-job: Checkout sanctions-ser...	<1s
✓	Finalize Job	<1s
✓	Report build status	<1s

✓ **Dependabot**

```

1 Starting: Dependabot
2 =====
3 Task      : Dependabot
4 Description : Automatically update dependencies and vulnerabilities in your code using [Dependabot CLI](https://github.com/dependabot/cli)
5 Version    : 2.46.1316
6 Author     : Tingle Software
7 Help       : https://github.com/tinglesoftware/dependabot-azure-devops/issues
8 =====
9 Experiments: {
10   'record-ecosystem-versions': true,
11   'record-update-job-unknown-error': true,
12   'proxy-cached': true,
13   'move-job-token': true,
14   'dependency-change-validation': true,
15   'nuget-install-dotnet-sdks': true,
16   'nuget-native-analysis': true,
17   'nuget-use-direct-discovery': true,
18   'enable-file-parser-python-local': true,
19   'npm-fallback-version-above-v6': true,
20   'lead-security-dependency': true,
21   'enable-shared-helpers-command-timeout': true,
22   'enable-engine-version-detection': true,
23   'avoid-duplicate-updates-package-json': true,
24   'allow-refresh-for-existing-pr-dependencies': true,
25   'enable-bun-ecosystem': true,
26   'exclude-local-composer-packages': true,
27   'enable-cooldown-for-python': true,
28   'enable-cooldown-for-uv': true,
29   'enable-cooldown-for-npm-and-yarn': true
30 }
31 ▶ Job 'update-0-npm-all'
3317 Finishing: Dependabot

```

**Dependabot [#68345]: Bump nocache from 3.0.4 to 4.0.0 in /app**

ServiceModel Build Service (iquw1856devops) request !9502 into main

**Dependabot [#68345]: Bump helmet from 6.0.1 to 8.1.0 in /app**

ServiceModel Build Service (iquw1856devops) request !9501 into main

**Dependabot [#68345]: Bump express and @types/express in /app**

ServiceModel Build Service (iquw1856devops) request !9500 into main

**Dependabot [#68345]: Bump applicationinsights from 2.3.6 to 3.7.0 in /app**

ServiceModel Build Service (iquw1856devops) request !9499 into main

**Dependabot [#68345]: Bump the development-minor group in /app with 6 updates**

ServiceModel Build Service (iquw1856devops) request !9498 into main

**Dependabot [#68345]: Bump the development-major group in /app with 11 updates**

ServiceModel Build Service (iquw1856devops) request !9497 into main

**Dependabot [#68345]: Bump the production-minor group in /app with 5 updates**

ServiceModel Build Service (iquw1856devops) request !9496 into main

Snyk

- 83536 Add Snyk Security scanning (Azure Functions) | New
- 83534 Add Snyk Security scanning (Dataiku) | New

- [83530 Add Snyk Security scanning \(iHub\)](#) | In Technical Analysis
- [83532 Add Snyk Security scanning \(Python\)](#) | New
- [83538 Add Snyk Security scanning \(Q FE / API\)](#) | New

DAST (Dynamic Application Security Testing)

Automated Testing

UI

Automated UI tests (i.e. Unit testing, snapshot testing, etc) are not currently implemented but are planned as upcoming feature:

Work Items:

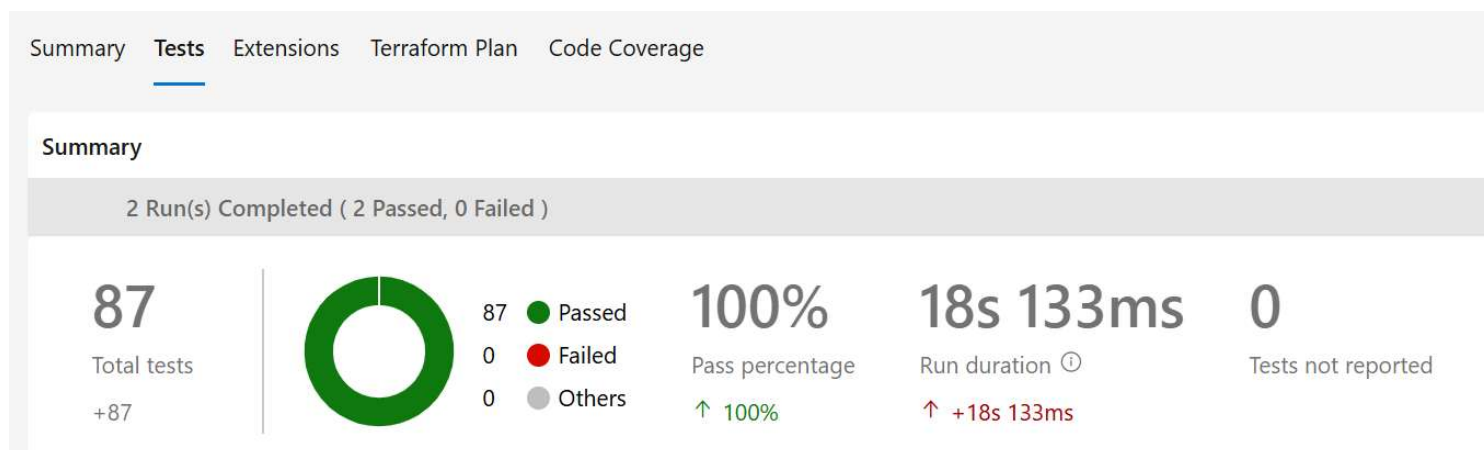
- [70767 Automated tests for React Apps \(unit/integration test\)](#) | Done
- [70765 Add code coverage reports and ensure 100% test coverage to all PRs \(React\)](#) | Done
- [85129 Automated tests for Q FE / API Apps \(unit/integration test\)](#) | To Do
- [85131 Add 100% test coverage for new code to all PRs \(Q FE\)](#) | New

API / Functions

Work Items:

- [65980 Add 100% test coverage for new code to all PRs \(iHub\)](#) | Done
- [69394 Add 100% test coverage for new code to all PRs \(Python\)](#) | Done
- [70764 Add 100% test coverage for new code to all PRs \(Azure Functions\)](#) | Done
- [81544 Add 100% test coverage for new code to all PRs \(Dataiku\)](#) | New
- [85130 Add 100% test coverage for new code to all PRs \(Q API\)](#) | New

We ensure unit and integration tests for our APIs:



Automated Pentesting

We are exploring automated pen testing with Snyk

Manual End User Testing

Our test plans are stored here:

[Test plans - Test Plans](#)

Manual UAT is carried out:

- Prior to any production release
- Post any production release

Testing Process

- Requirements received in the form of ADO Product Backlog Items, once allocated to a sprint
- Tests scripted based on the acceptance criteria within the Product Backlog Items
- Tests executed on the front end of the application – taking applicable screenshots using the facility in ADO, for evidence of steps and outcomes
- If test is successful, ADO test is marked as Pass
- If test is unsuccessful, ADO test is marked as Fail, and a linked bug is raised from the test
- If a test is unable to be executed, it is marked as Blocked
- If a test becomes out of scope, it is marked as Not Applicable