

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)

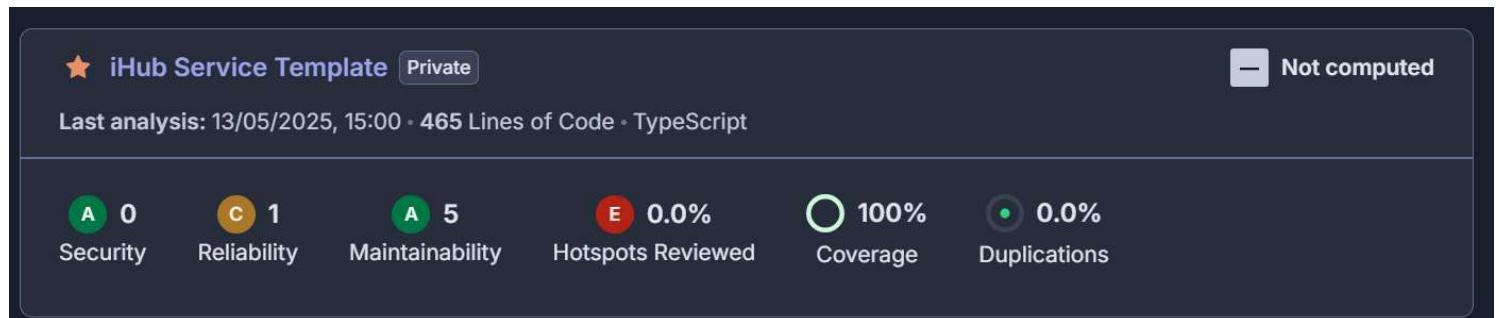
Sonarcloud

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:

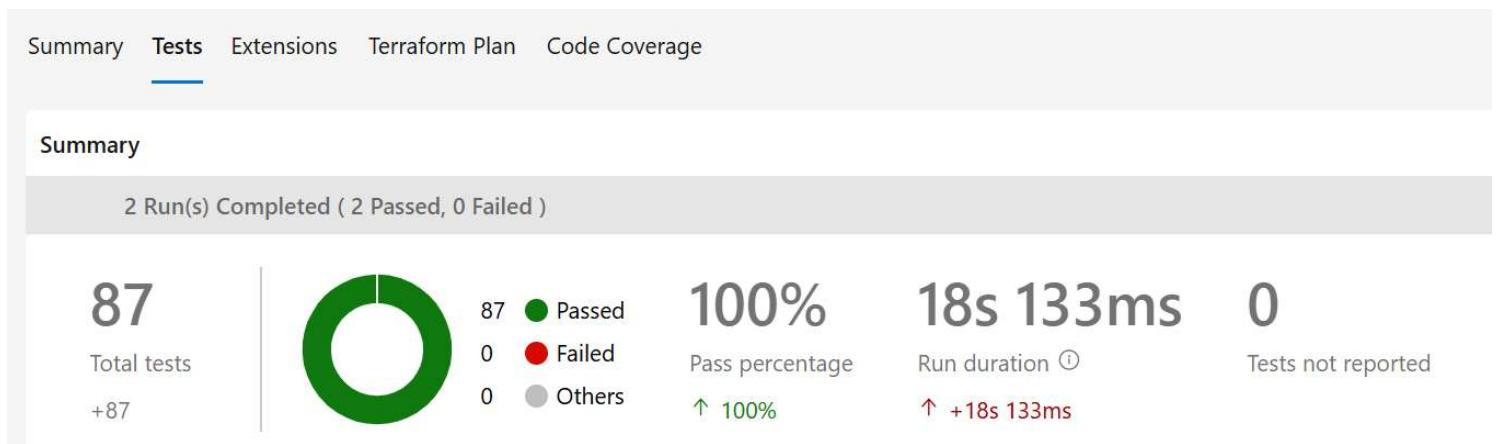
- █ 70767 Automated tests for React Apps (unit/integration test) | Done
- █ 70765 Add code coverage reports and ensure 100% test coverage to all PRs (React) | Done
- █ 85129 Automated tests for Q FE / API Apps (unit/integration test) | To Do
- █ 85131 Add 100% test coverage for new code to all PRs (Q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