

About the tool status page for code scanning

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The tool status page shows useful information about all of your code scanning tools. If code scanning is not working as you'd expect, the tool status page is a good starting point for debugging problems.

Code scanning is available for all public repositories on GitHub.com. To use code scanning in a private repository owned by an organization, you must have a license for GitHub Advanced Security. For more information, see "[About GitHub Advanced Security](#)."

About the tool status page

The tool status page shows useful information about all of your code scanning tools. If code scanning is not working as you'd expect, the tool status page is a good starting point for debugging problems.

Using the tool status page, you can see how well code scanning tools are working for a repository, when files in the repository were first scanned and most recently scanned, and when scans are scheduled. For integrated tools like CodeQL, you can also see more detailed information, including a percentage of files scanned and specific error messages.

You can also see the rules your code was checked against by each configuration of a code scanning tool and download a summary of the results.

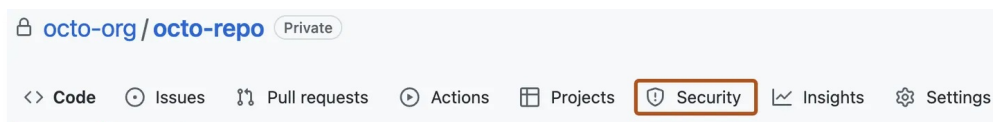
Note: The tool status page shows how tools are working at the repository level, not the organization level. The tool status is only shown for the default branch of the repository for which that tool is configured.

Viewing the tool status page for a repository

The code scanning alerts page for each repository includes a tools banner with a summary of the health of your code scanning analysis, and access to the tool status page to explore your setup.

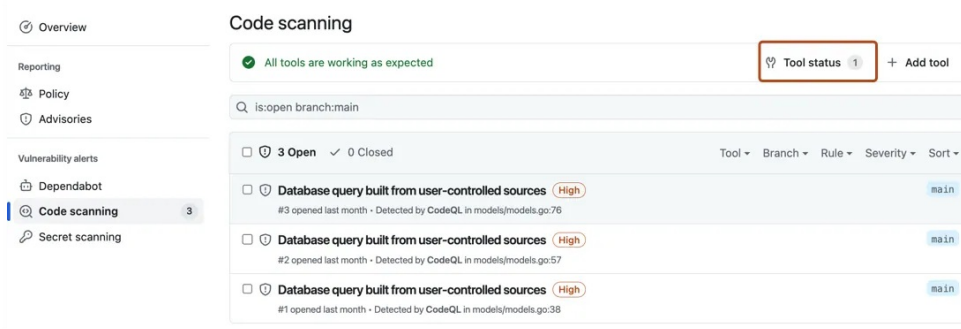
- 1 On GitHub.com, navigate to the main page of the repository.

- Under the repository name, click **Security**. If you cannot see the "Security" tab, select the ... dropdown menu, and then click **Security**.



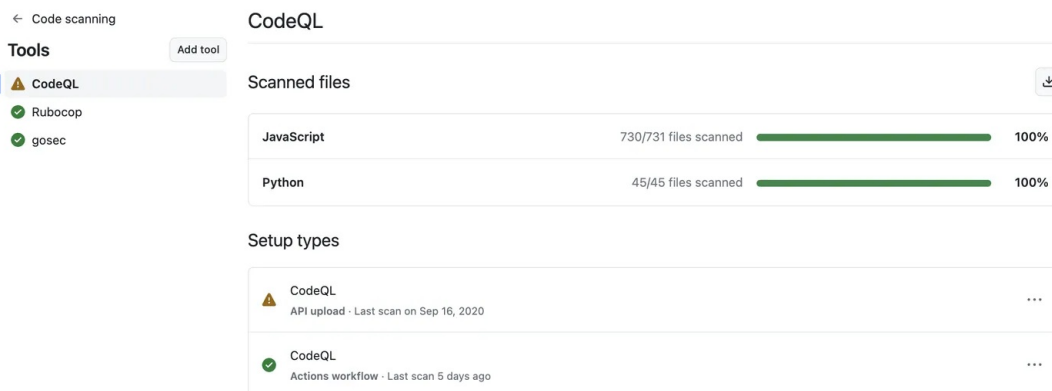
- In the left sidebar, click **Code scanning alerts**.

- Click **Tool status** in the tools banner.



Using the tool status page

In the tool status page, you'll see a summary for one tool, highlighted in the sidebar. You can use the sidebar to view summaries for different tools.



For integrated tools such as CodeQL, you can see a percentage total of all the files most recently scanned in your repository, organized by programming language. For information about what files are considered to have been scanned by CodeQL, see "[How CodeQL defines scanned files](#)." You can also download detailed language reports in CSV format. For more information, see "[Downloading details of the files analyzed](#)."

The three possible tool statuses are: all configurations are working, some configurations need attention, and some configurations are not working.

Accessing detailed information about tools

When you want to see more detailed information for the currently displayed tool, you can select a specific setup under "Setup types".

Under "Configurations" on the left of the screen, you can see information for each analysis run by this setup type, and any relevant error messages. To see detailed

information about the most recent analysis run, select a configuration in the sidebar. You can download details of exactly which rules were run in that scan of the code and how many alerts were found by each rule. For more information, see "[Downloading lists of rules used](#)."

Tools

CodeQL

Setup type

Actions workflow

Configurations

language:java
0b690e38 last scan 54 minutes ago

language:cpp
0b690e38 last scan 1 hour ago

language:python
0b690e38 last scan 1 hour ago

language:javascript
0b690e38 last scan 1 hour ago

language:python

Status

This configuration is working as expected.

Details

Configuration	.github/workflows/codeql-analysis.yml:analyze/language:python
Last scan	0c820f25 · 1 hour ago
First scan	on Sep 22, 2020
Tool version	CodeQL (2.12.5)
Query suite	security-and-quality
Additional queries	.fgtm/cpp-queries .fgtm/java-queries .fgtm/javascript-queries .fgtm/python-queries
Extensions	codeql/python-queries (0.6.5) python-queries

This view will also show error messages. For more information, see "[Debugging using the tool status page](#)."

How CodeQL defines scanned files

A file is reported as scanned by CodeQL if some of the lines of code in that file were processed. If you're using a standard configuration of the CodeQL action, the scanned files shown in the tool status page will include source code files for all languages that CodeQL can analyze. If you use advanced setup, you can optionally define which files for interpreted languages should be scanned using the `paths` and `paths-ignore` configuration properties. For more information, see "[About code scanning with CodeQL](#)" and "[Customizing your advanced setup for code scanning](#)."


For compiled languages, the tool status page reports files that were present before running autobuild or any manual build steps. This means that files generated during the build process are not shown in the tool status page. For more information, see "[CodeQL code scanning for compiled languages](#)."

The tool status page will calculate the percentage of files that were scanned by CodeQL for each language supported by CodeQL. This percentage respects any files excluded by the `paths` and `paths-ignore` configuration properties.

Downloading details of the files analyzed

For integrated tools such as CodeQL, you can download detailed reports from the tool status page in CSV format. This will show:


- Which configuration was used to scan each file.
- The file path.
- The programming language of the file.
- Whether the file was successfully extracted.

To download a report, select a tool you're interested in. Then on the top right of the page, click the  button.

Downloading lists of rules used


You can download the list of rules that code scanning is checking against, in CSV format. This will show:

- The configuration used.
- The rule source.
- The SARIF identifier.
- How many alerts were found.

To download a report, select a configuration you're interested in. Then click ... on the top right of the page, and select  **Download list of rules used**.

Removing configurations

You can remove stale, duplicate, or unwanted configurations for the default branch of your repository.

To remove a configuration, select the configuration you want to delete. Then click ... on the top right of the page, and select  **Delete configuration**. Once you have read the warning about alerts, to confirm the deletion, click the **Delete** button.

Note: You can only use the tool status page to remove configurations for the default branch of a repository. For information about removing configurations from non-default branches, see "[Managing code scanning alerts for your repository](#)."

Debugging using the tool status page

If you see that there is a problem with your analysis from the code scanning alerts page, you can use the tool status page to identify the problem. For integrated tools, you can see specific error messages in the detailed information section, related to specific code scanning tools. These error messages contain information about why the tool may not be performing as expected, and actions you can take. For more information about how to access this section of the tool status page, see "[Accessing detailed information about tools](#)."

For integrated tools such as CodeQL, you can also use file coverage information to improve your analysis. For each language displayed on the tool status page:

- If the language has a high scanned percentage, this shows that code scanning is scanning that language as expected.
- If the language has a low scanned percentage, you may wish to investigate diagnostic output produced by CodeQL for that language: for more information see "[CodeQL scanned fewer lines than expected](#)."
- If the language has a scanned percentage of zero, you may have source code in your repository written in languages supported by CodeQL but not currently being analyzed with CodeQL. In this case, you may wish to update your setup to start analyzing these additional languages. For more information, see "[Customizing your advanced setup for code scanning](#)."

Note: If you have set up CodeQL using advanced setup and then set up default setup on the same repository, the tool status page will only show default setup.

For more information, see "[Troubleshooting code scanning](#)" and "[Troubleshooting SARIF uploads](#)."

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