

MathWorks Polyspace Plugin

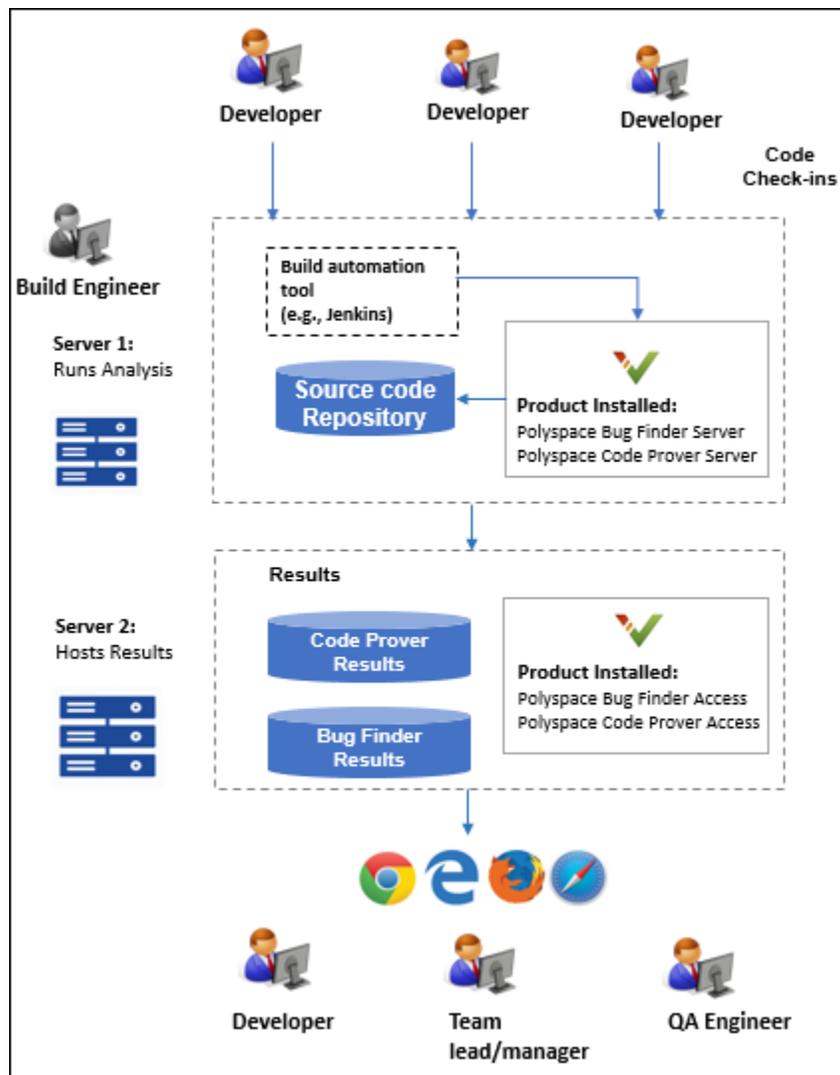
Plugin Information

View MathWorks Polyspace [on the plugin site](#) for more information.

This plugin integrates Polyspace® products with Jenkins for automated analysis. Polyspace® static code analysis products can prove absence of critical run-time errors using formal methods, find hundreds of classes of bugs, and check for adherence to coding rules (MISRA C, MISRA C++, JSF++) and security rules (CWE, CERT-C, CERT-C++, ISO/IEC 17961).

Features

- Automating code analysis with Polyspace Bug Finder Server or Polyspace Code Prover Server
- Avoiding regressions from new code check-ins with pass/fail criteria for builds based on Polyspace results
- Uploading Polyspace results to a web server for collaborative review
- Assigning owners to results based on predefined criteria such as file ownership
- Sending e-mail notifications with new findings



Product Requirements

You require these products to use the MathWorks Polyspace plugin in Jenkins:

- To run a Polyspace analysis, install **Polyspace Bug Finder Server** or **Polyspace Code Prover Server**. The installation provides executables for running Polyspace, uploading results to the Polyspace Access web interface (if configured) and exporting results to a text file.
- To review Polyspace results along with source code and details on an interactive web view, set up the components required to host the **Polyspace Access** web interface.

For installation steps, see [Polyspace documentation](#).

Note: These Polyspace products are available in MathWorks releases R2019a and beyond. For releases prior to R2019a, you can use the Jenkins plugin with an installation of the desktop products, Polyspace Bug Finder or Polyspace Code Prover, and use the older Polyspace Metrics web interface to host results. However, the Polyspace Metrics web interface shows only an overview of Polyspace results for a project. To see the result details, you have to download the results back to the desktop product.

Getting Started

After you install Polyspace Bug Finder Server or Polyspace Code Prover Server and set up the Polyspace Access (or Polyspace Metrics) web interface, you can use the Jenkins plugin to run Polyspace during continuous integration. To start using the plugin:

1. Configure the plugin to point to your Polyspace Server installation folder and Polyspace Access server settings.
2. Set up a Jenkins project to run a Polyspace analysis in isolation or along with other scripts.
 - In the **Build Environment** section of a Jenkins project, refer to a specific Polyspace Server installation and Polyspace Access server.
 - In the **Build** section of the project, enter Windows batch files or Shell scripts to run Polyspace.
 - In the **Post-build Actions** section of the project, set up e-mail notification to send e-mails with Polyspace result files created through your build scripts. You can send a common e-mail to all recipients or send individual e-mails to file owners. The Polyspace result files contain a list of results along with links to results in the Polyspace Access web interface.

For a quick start tutorial and example scripts, see the [MathWorks Polyspace plugin github repository](#). For examples of Polyspace commands, see [Polyspace Bug Finder Server documentation](#) or [Polyspace Code Prover Server documentation](#).

Release Notes

Version 1.0.0

Initial version