

Unified Agent

Challenges

The software development life cycle has become increasingly complex, requiring developers to work across a growing number of environments and tools on the way to releasing their products within tight schedules. The growing variety of environments and tools that development teams are required to integrate demands developers spend valuable time on multiple configurations, maintenance, and updates. In order to make sure that they are not exposed to vulnerabilities, and ensure license and policy compliance, developers need a tracking tool that integrates seamlessly with all of the environments that they use, and provides support for all languages and package types without requiring them to spend time on maintenance.

Solution

Mend's Unified Agent is a stand-alone command line tool that developers can use for all integrations. It enables organizations to simplify their maintenance processes and remain updated while using centralized and templated configurations. The Unified Agent supports over 700 file extensions, over 20 package managers, scans both local and remote repositories including binaries, source files, and archive files located in Docker images, containers, Linux packages, or serverless functions. The Unified Agent can run simultaneously in multiple locations, and can be executed in various ways: from a command line as part of your CI/CD build tools, and inside containerized environments.



Top Benefits

1

One Size Fits All

Use one single agent across the SDLC, for both local and remote projects. The Unified Agent supports over 200 languages across all environments, including containers, serverless, build tools, package managers, and Git, SVN or Mercurial-based repositories.

2

Quick SET UP

Use a stand-alone tool for one-step setup. The Unified Agent provides automation practically out-of-the-box and without any scripting. Users can also wrap it with a few lines of script to enhance its capabilities and integrate it with an internal or external system.

3

Quality Gates

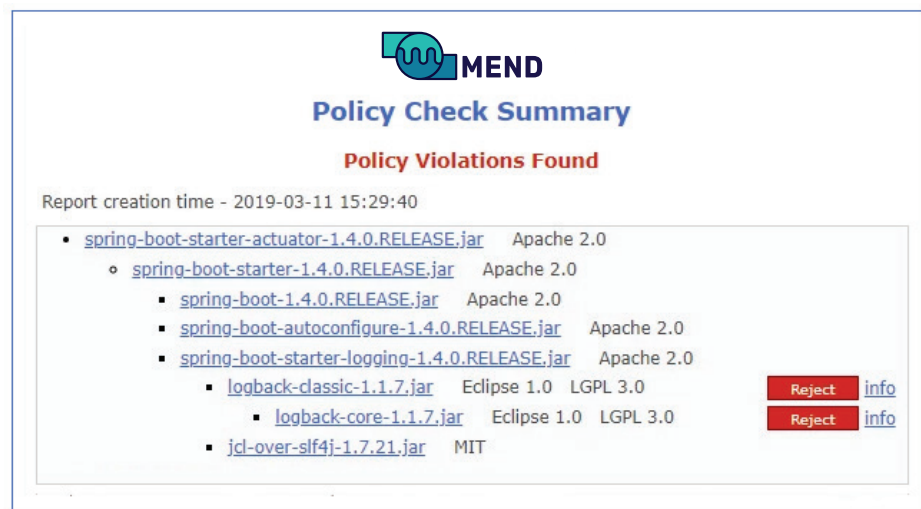
The Unified Agent supports quality gates which are automatic security and compliance thresholds that can be defined, set, and enforced automatically within the SDLC, integrating with build tools to ensure security and compliance.

Data Specifications

Languages	Supports over 200 languages
File extensions	Supports over 700 file extensions
Package managers	Supports over 20 package managers
Support for packages and source files	Scans both packages and source files
Docker support	Scans Docker images from various platforms (Amazon ECR, Google Container Registry, Artifactory, Azure ACR, Docker Hub)
Serverless Support	Scans Serverless functions
Policy enforcement	Enables automatic policy enforcement
Remote repository connection	Connects to remotes repositories via Git, SVN or Mercurial.
Archive files	Supports scanning archive files
Linux support	Scans Linux packages: Debian, RPM, Alpine and Arch Linux.

Policy Check Summary

Once policies are enforced — in this case, rejecting any libraries with Eclipse licenses, a policy violation report is generated, detailing any policy violations found.



The screenshot displays a MEND Policy Check Summary report. At the top, the MEND logo is visible. Below it, the title "Policy Check Summary" is followed by "Policy Violations Found" in red. The report creation time is "2019-03-11 15:29:40". The main content is a list of dependencies with their licenses. The following table summarizes the violations shown in the screenshot:

Dependency	License	Violation
spring-boot-starter-actuator-1.4.0.RELEASE.jar	Apache 2.0	None
spring-boot-starter-1.4.0.RELEASE.jar	Apache 2.0	None
spring-boot-1.4.0.RELEASE.jar	Apache 2.0	None
spring-boot-autoconfigure-1.4.0.RELEASE.jar	Apache 2.0	None
spring-boot-starter-logging-1.4.0.RELEASE.jar	Apache 2.0	None
logback-classic-1.1.7.jar	Eclipse 1.0 LGPL 3.0	Reject
logback-core-1.1.7.jar	Eclipse 1.0 LGPL 3.0	Reject
jcl-over-slf4j-1.7.21.jar	MIT	None

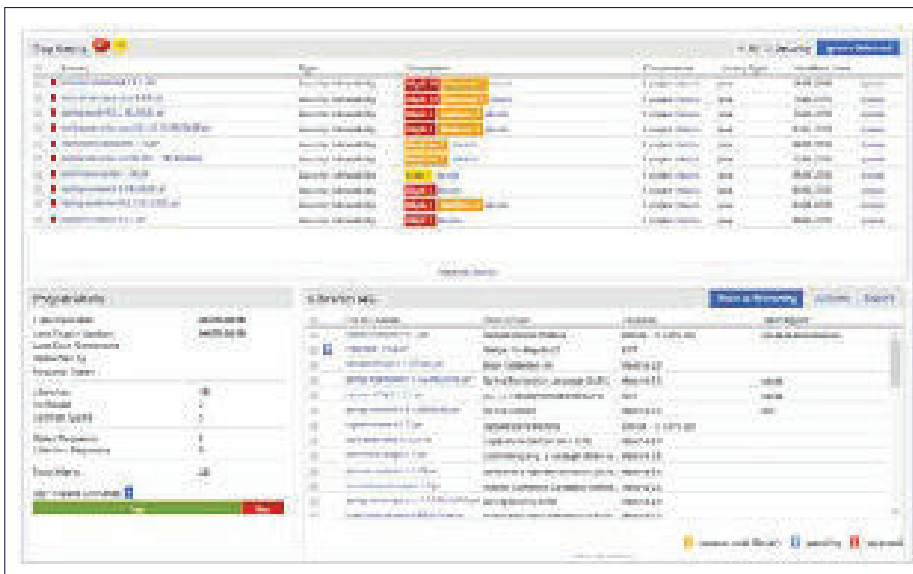
Scan Summary

After a scan is performed, this summary is displayed, providing details about each step in the scan process:

```
..... Start: Check Policies .....
[INFO] [2023-05-28 11:36:32,439 +0500] - Checking policies
[INFO] [2023-05-28 11:36:36,433 +0500] - Some dependencies did not conform with open source policies, review report for details
[INFO] [2023-05-28 11:36:36,433 +0500] - see UPDATE REPORTS see
[INFO] [2023-05-28 11:36:36,545 +0500] - Check Policies Support Token: 90ea3213f3a174ee2af959ea31b0daa1339802592899
[INFO] [2023-05-28 11:36:37,231 +0500] - Policies report generated successfully
[INFO] [2023-05-28 11:36:37,133 +0500] -
..... End: Check Policies .....
[INFO] [2023-05-28 11:36:37,179 +0500] -
..... @WhiteSource Scan Summary, .....
Scan Origin: Local File System
-----
Step                Completion Status      Elapsed                Comments
-----
Fetch Configuration  COMPLETED             00:00:00.186          -----
Scan Files Matching 'Includes' Pattern  COMPLETED             00:00:00.337          # source/library files
Pre-Scan & Resolve Dependencies  COMPLETED             00:00:23.563          # total dependencies (48 unique)
HTML                COMPLETED             00:00:09.611          # dependencies
Maven               COMPLETED             00:00:13.813          # total dependencies (48 unique)
Check Policies      COMPLETED             00:00:04.723          -----
-----
Elapsed running time: 00:00:53.273
-----
Process finished with exit code POLICY_VIOLATION (-2)
```

Scan Results

All scan results and their details can be viewed in real-time on the Mend home screen.



About Mend

Mend, formerly known as WhiteSource, effortlessly secures what developers create. Mend uniquely removes the burden of application security, allowing development teams to deliver quality, secure code, faster. With a proven track record of successfully meeting complex and large-scale application security needs, the world's most demanding software developers rely on Mend. The company has more than 1,000 customers, including 25 percent of the Fortune 100, and manages Renovate, link here, the open-source automated dependency update project.

For more information, visit www.mend.io, the Mend blog, and Mend on LinkedIn and Twitter.