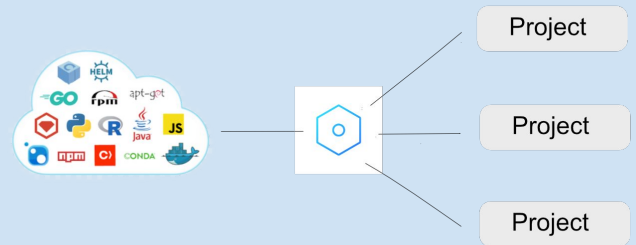


## DEFINING INNERSOURCE

“InnerSource” refers to bringing the core principles of open source and collaboration entirely **within the walls of your organization** - focused on your own **intellectual property**, technology, and teams.

Innersource is not a product or service that you buy and install on your network.

It is instead a term that refers to the overall workflow, methodology, community, and culture that optimizes an organization for open source style collaboration.



## WHAT ARE INNERSOURCE COMPONENTS

Both InnerSource and open source components are software components that are used to build software. The **key difference** is that InnerSource components are **internally developed components that are shared with other internal applications**.

Lifecycle identifies transitive dependencies pulled in by an InnerSource component. This helps reduce the amount of time it takes to identify transitive dependency violations as reported in a [Software Bill of Materials SBOM](#).

To learn more, check out our [Insider's guide to federal secure development mandates and compliance](#) blog.

## VIOLATIONS - FOCUS ON WHAT IS ACTIONABLE

When **fixing policy violations** it's all about focusing on what you as the developer can do. One of the easiest ways of doing this is to upgrade to a newer version that does not have any policy violations.

Understanding the component relationships allows you to **focus on what is actionable**. You need to know which dependencies are direct and which ones are transitive.

**Note:** To upgrade a transitive dependency, the direct dependency needs to no longer use it.

## WITH INNERSOURCE, IT'S ALL ABOUT THE TRANSITIVES

We say “it’s all about the transitives” because any **violation** associated with InnerSource components are referring to the open source **transitive dependencies** that the InnerSource component relies on.

**#TechTalk:** To state this another way, the “child” transitive dependencies will be the source of the policy violation, but the fix will be with the “parent” InnerSource component.

### Why Is All of This So Important?

The difficulty with remediating these specific policy violations is understanding they are **NOT direct dependencies**, but in fact, **transitive dependencies of the InnerSource component**. Historically, teams have struggled with identifying how those open source vulnerabilities align to their internally developed components.

## USING MAVEN & npm WITH INNERSOURCE INSIGHT

Maven	npm
<p>Lifecycle has the information to link the <b>consumer</b> and <b>producer</b>.</p> <ul style="list-style-type: none"> <li>Consumers are linked to producers using the metadata provided by <b>Maven</b>.</li> <li>A <b>pom.xml</b> declares what artifacts are built and lays out the dependencies.</li> <li>With this information, Lifecycle links a producer to a consumer via <b>the artifact and dependency linkage</b>.</li> </ul>	<p>In order to include dependency type information (i.e. Direct vs Transitive), a <b>package.json</b> file must also exist and be readable as a sibling file to the target <b>lock file</b> (i.e. one of the listed below). This file is typically auto-generated and managed by a package manager.</p> <ul style="list-style-type: none"> <li>Yarn.lock</li> <li>Pnpm-lock.yaml</li> <li>Package-lock.json</li> <li>Npm-shrinkwrap.json</li> </ul>
<p>Check out the <a href="#">Sonatype CLM for Maven</a> documentation and the Gradle Plugin to learn more.</p>	<p>Check out the <a href="#">npm Application Analysis</a> documentation to learn more about supported npm manifests.</p>