

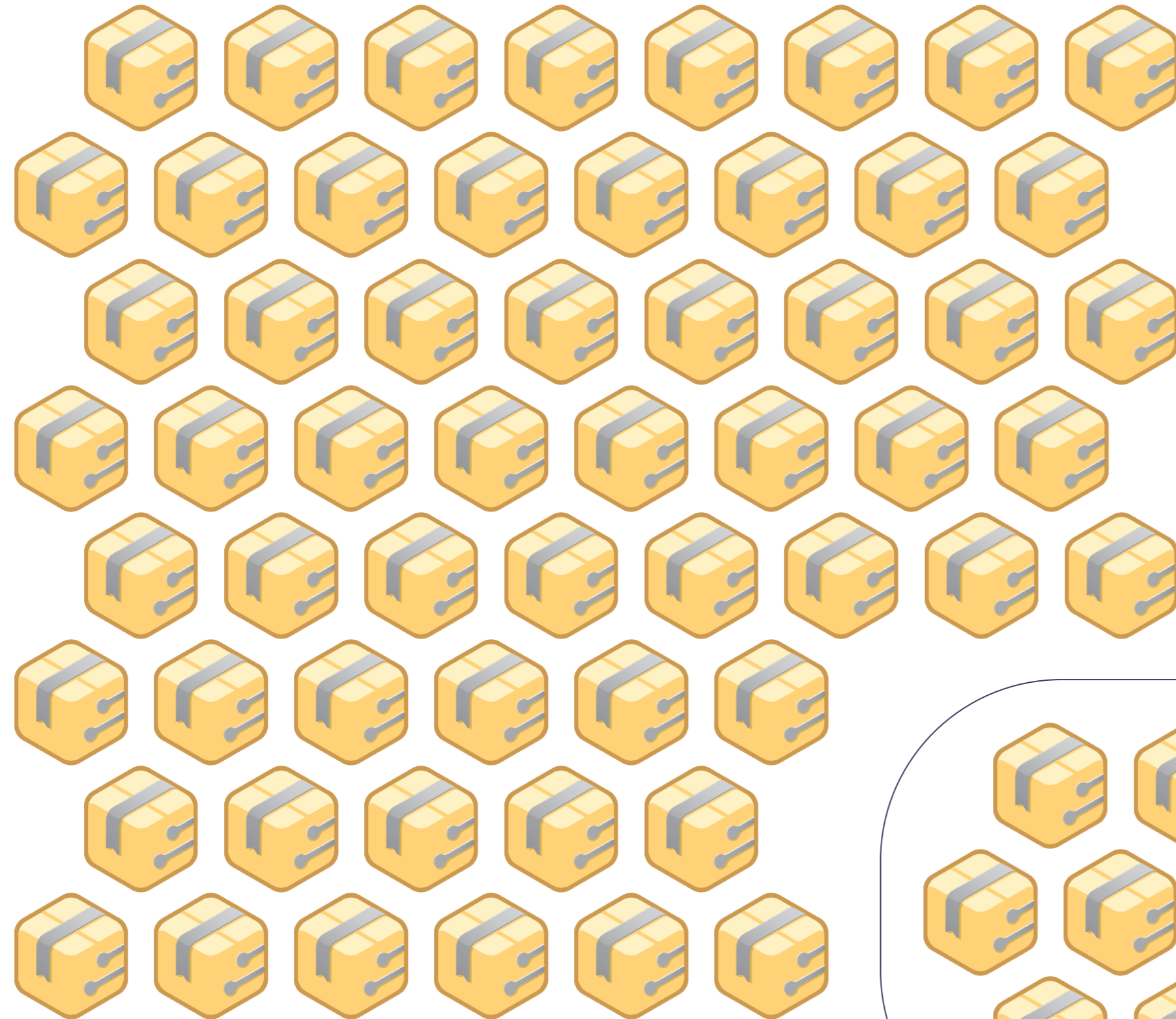


FOSSID

APRIL 2023

Types of SCA

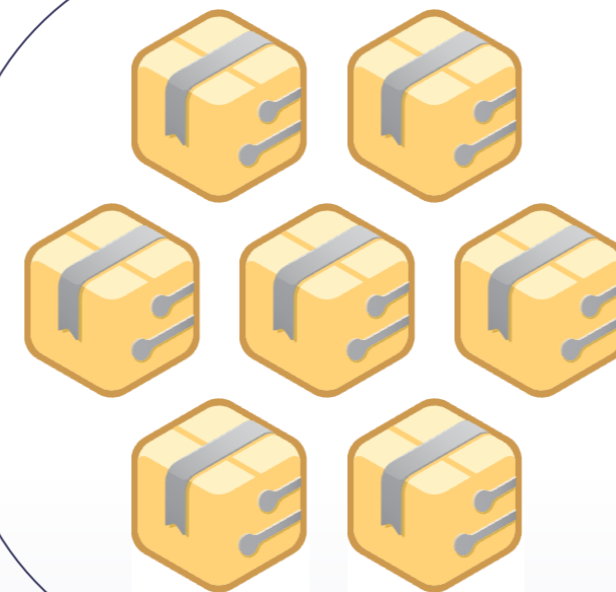
Types of SCA Security VS License Compliance



License Compliance Risks

There are over 150M components of software in FossID's Knowledge Base today.

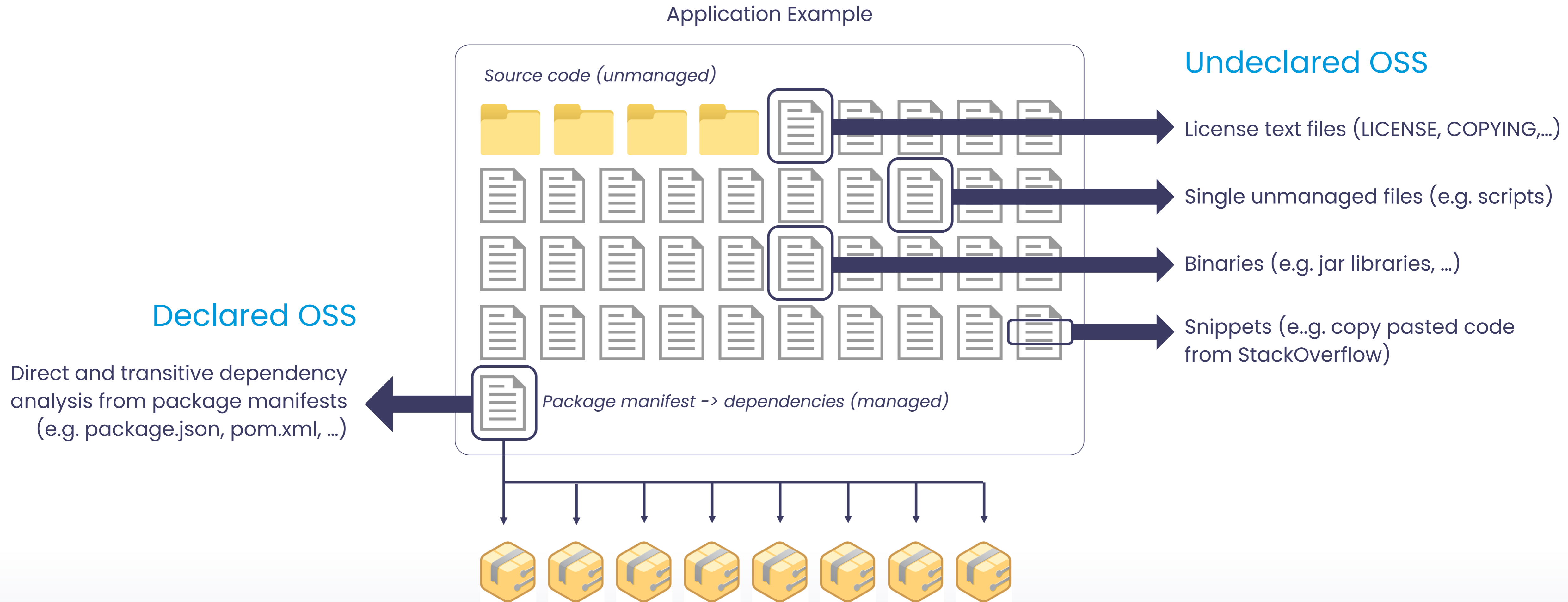
These software components are released under 2000+ different open source licenses.



Security Risks

Only about 1M components have known vulnerabilities and exposures (CVEs)

Types of SCA Declared VS Undeclared OSS



Open Source is everywhere As is the need to properly manage it

97%

of codebases
leverage Free Open
Source Software

81%

of codebases have
security vulnerability
issues

53%

of codebases have
license compliance
issues

FossID Key Strength – Detection Capabilities

With our tools, you should find more (compared to competition)

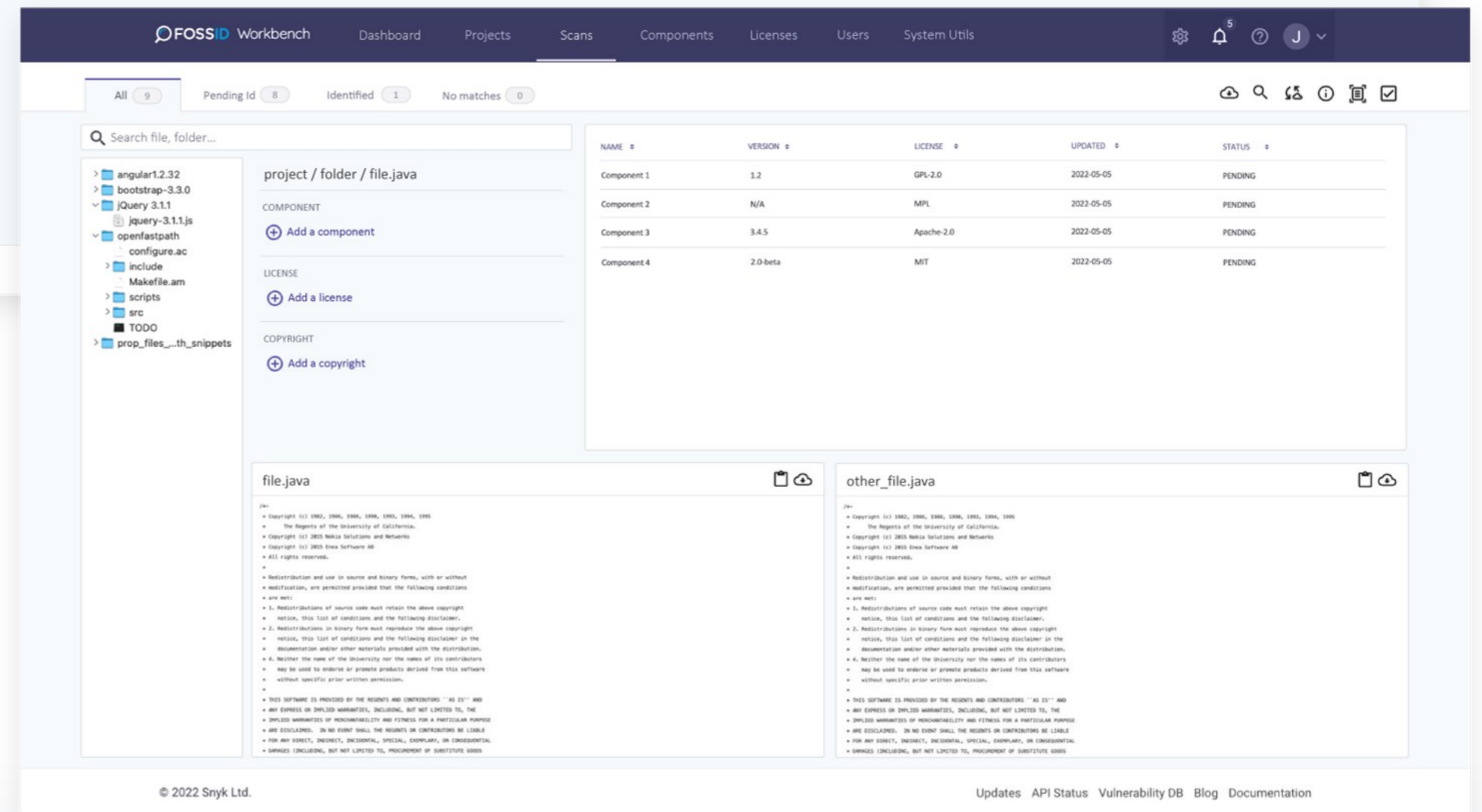
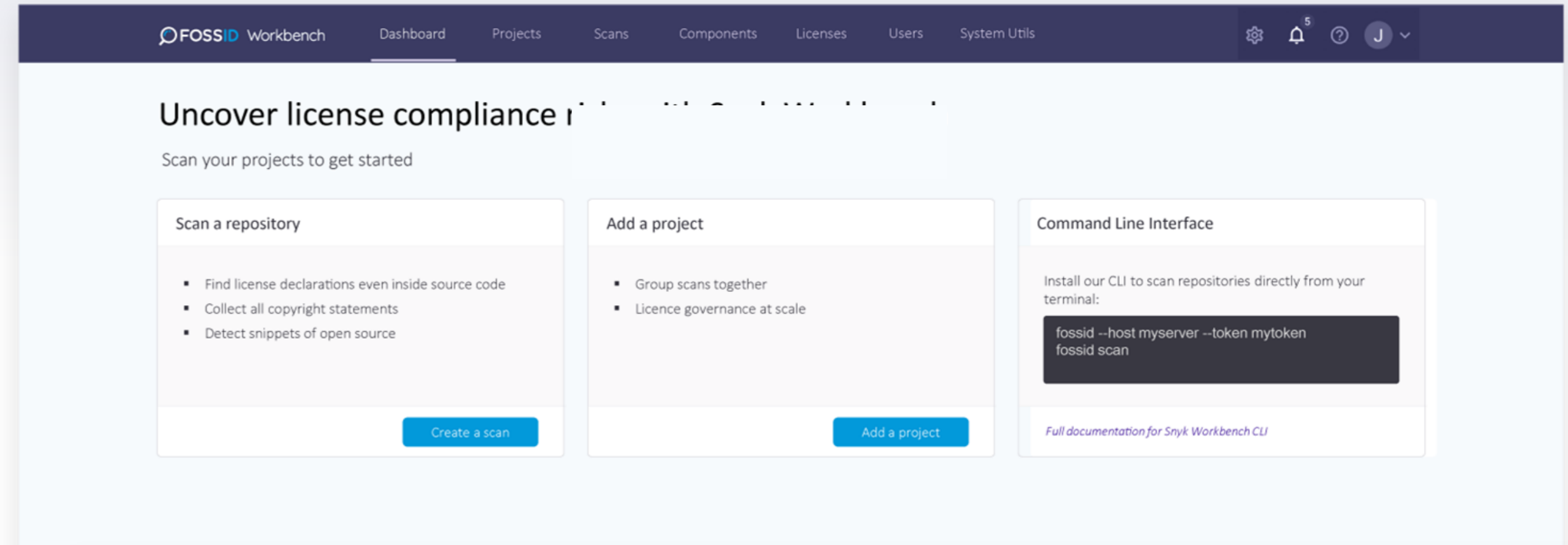
- Ability to **identify more** software
- Ability to identify in **higher level of detail**
- Ability to identify with **less false positives**

PRODUCTS

Workbench Platform

One interface to manage all 3rd party sw:

- Review scan results:
 - See OSS component, file & snippet matches
 - Review license and copyright information
- Generate reports
 - SBOM (SPDX),
 - Notice files, etc...
- Policy management
 - Implement and enforce company wide or project based OSS policies
 - Approve/reject OSS based on policies
 - Follow up through JIRA
- Catalog all 3rd party software used in your products
- Create customized user roles based on privileges



Knowledge Base OSS Intelligence

Comprehensive Open-Source Software (OSS) coverage

FossID products and services are powered by FossID's industry-leading OSS intelligence database.



Best Coverage

Maintained by a [dedicated research team](#), it covers over 150M OSS components coming from 60+ public sources and user contribution sites such as GitHub and StackOverflow.



Maximum Accuracy

FossID's scanning technology detects from whole OSS components and binaries to small [snippets of code](#) (as little as 6 lines of code).



Highest Confidentiality

FossID never accesses or transfers your source code, scans cryptographic hashes instead. Alternatively, FossID allows for fully [on-prem air-gapped deployments](#).

Knowledge Base Detection Capabilities



Quickly identify folders, libraries, archives or binaries

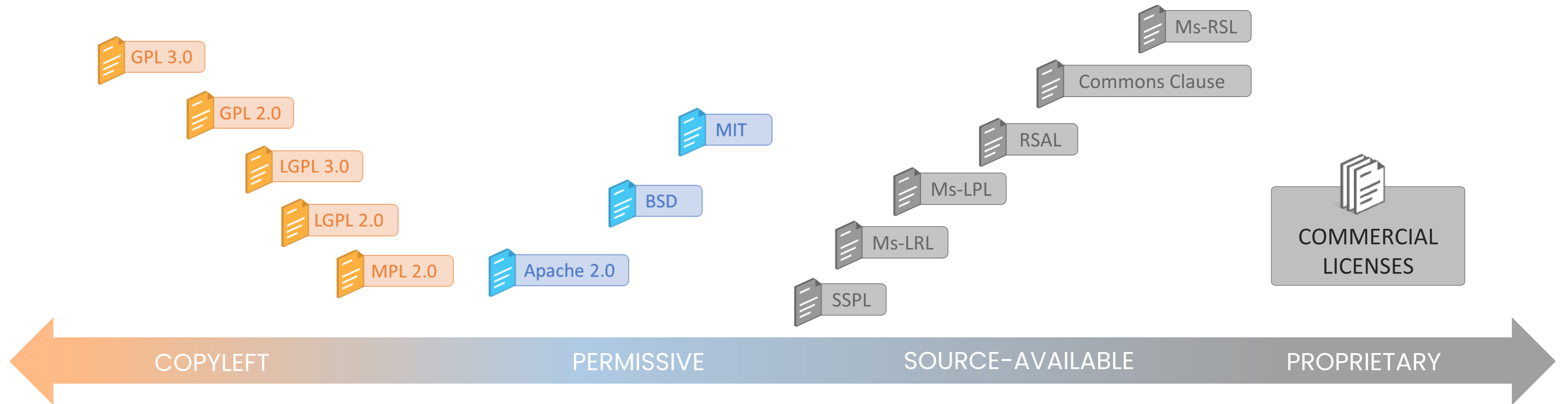


Detect full files in your code base even if they are modified



Identify smaller open source footprints like copy pasted code

Types of SCA Source-available licenses



Automation Package

Integrate FossID Workbench in your SDLC:

- Command Line Interface
 - BareMetal scanning functionality
 - Linux, Windows and Mac OS
 - Can be used as stand alone (independently from Workbench)
- API
 - Access all Workbench functionality
 - Upload target code, trigger scans, generate reports, etc...

```
MacBook-Pro-6:CLI fossi$ fossid-cli --config fossid.cfg EXAMPLE_PROJECT_WebApp/prop_files_with_snippets/sample_copy.c --pretty --fields minimal
{
  "component": {
    "artifact": "kernel",
    "author": "linux",
    "license": "GPL-2.0-only",
    "url": "https://www.kernel.org/pub/linux/kernel/v3.x/linux-3.8.6.tar.gz",
    "version": "3.8.6"
  },
  "local_path": "EXAMPLE_PROJECT_WebApp/prop_files_with_snippets/sample_copy.c"
}
{
  "component": {
    "artifact": "kernel",
    "author": "kernel",
    "license": "GPL-2.0-only",
    "url": "https://cdn.kernel.org/pub/linux/kernel/v3.x/linux-3.8.6.tar.bz2",
    "version": "3.8.6"
  },
  "local_path": "EXAMPLE_PROJECT_WebApp/prop_files_with_snippets/sample_copy.c"
}
{
  "component": {
    "artifact": "kernel",
    "author": "kernel",
    "license": "GPL-2.0-only",
    "url": "https://cdn.kernel.org/pub/linux/kernel/v3.x/linux-3.8.6.tar.bz2",
    "version": "3.8.6"
  },
  "local_path": "EXAMPLE_PROJECT_WebApp/prop_files_with_snippets/sample_copy.c"
}
```

```
inode = mqueue_get_inode(sb, ns, S_IFDIR | S_ISVTX | S_IRWXUGO, NULL);
if (IS_ERR(inode))
    return PTR_ERR(inode);

sb->s_root = d_make_root(inode);
if (!sb->s_root)
    return -ENOMEM;
return 0;

==>static struct dentry *mqueue_mount(struct file_system_type *fs_type,
==>int flags, const char *dev_name,
==>void *data)
==>{
==>    if (!(flags & MS_KERNMOUNT)) {
==>        struct ipc_namespace *ns = current->nsproxy->ipc_ns;
==>        /* Don't allow mounting unless the caller has CAP_SYS_ADMIN
==>         * over the ipc namespace.
==>         */
==>        if (!ns_capable(ns->user_ns, CAP_SYS_ADMIN))
==>            return ERR_PTR(-EPERM);
==>
==>        data = ns;
==>    }
==>    return mount_ns(fs_type, flags, data, mqueue_fill_super);
==>}

static void init_once(void *foo)
{
    struct mqueue_inode_info *p = (struct mqueue_inode_info *) foo;
```

VulnSnippet Finder Package



Snippet detection for vulnerable OSS snippets

FossID's Knowledge Base snippet detection capabilities have been extended to include special detection of vulnerable OSS snippets.



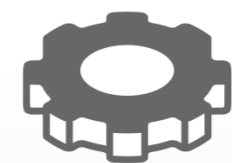
Extensive Coverage

Over 200k vulnerable snippets curated by experts.



Risks in Undeclared OSS

Knowing the exact lines of code that introduce vulnerabilities is crucial when dealing with undeclared OSS.



Designed for automation

Only trigger build fails for vulnerabilities you know you have in your source code.

VulnSnippet Finder Package

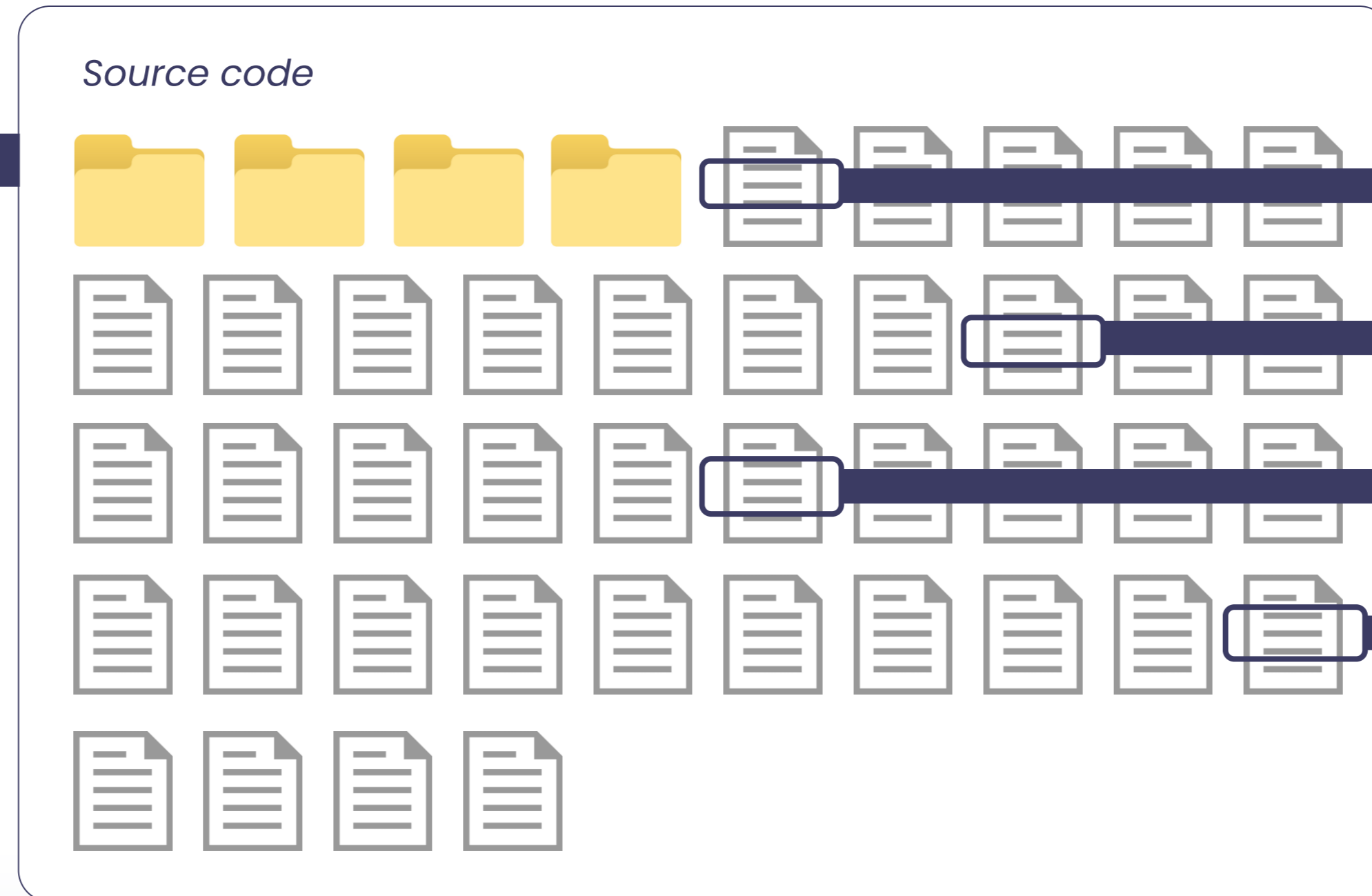
Most security scanners assume OSS vulnerabilities based on component/version while VulnSnippet Finder searches for the exact lines of code/snippets.

Most security scanners

List of CVEs of OpenSSL 1.0.1

- CVE-2014-3508
- CVE-2014-3507
- CVE-2014-3506
- CVE-2014-3505
- CVE-2014-3470
- CVE-2014-0224
- CVE-2014-0221
- CVE-2014-0195
- CVE-2014-0198
- CVE-2010-5298
- CVE-2013-0166
- ...

OpenSSL 1.0.1



VulnSnippet Finder

CVE-2013-0166

CVE-2014-0160

CVE-2013-6465

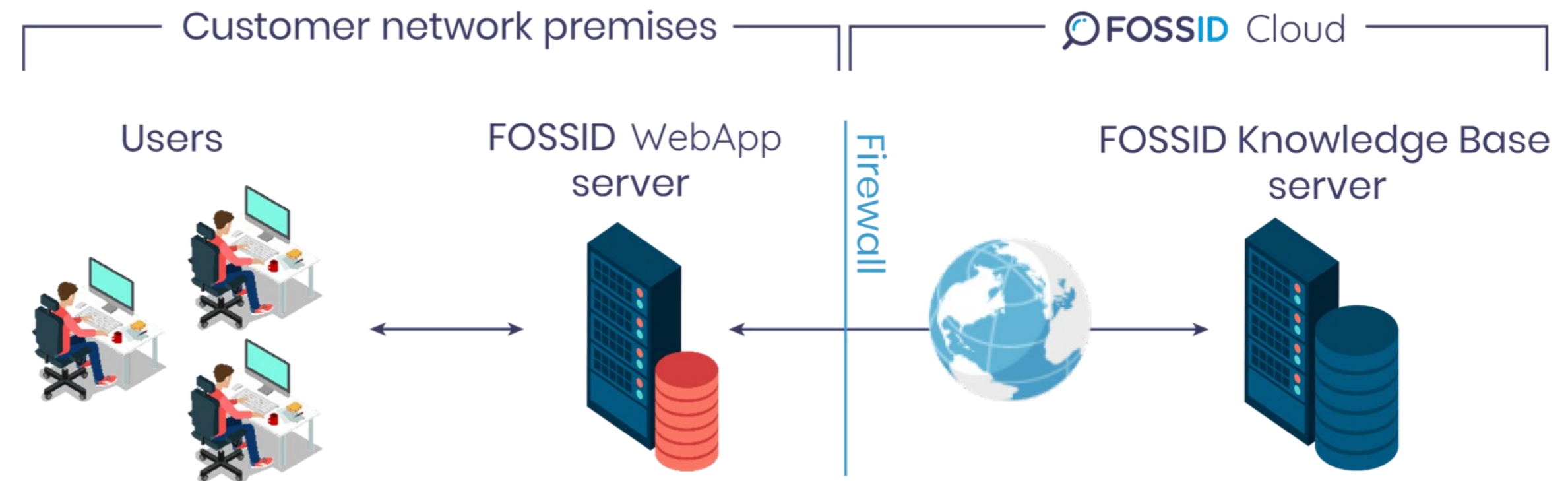
CVE-2013-4353

DEPLOYMENT OPTIONS

Deployment Options Hybrid & On-prem

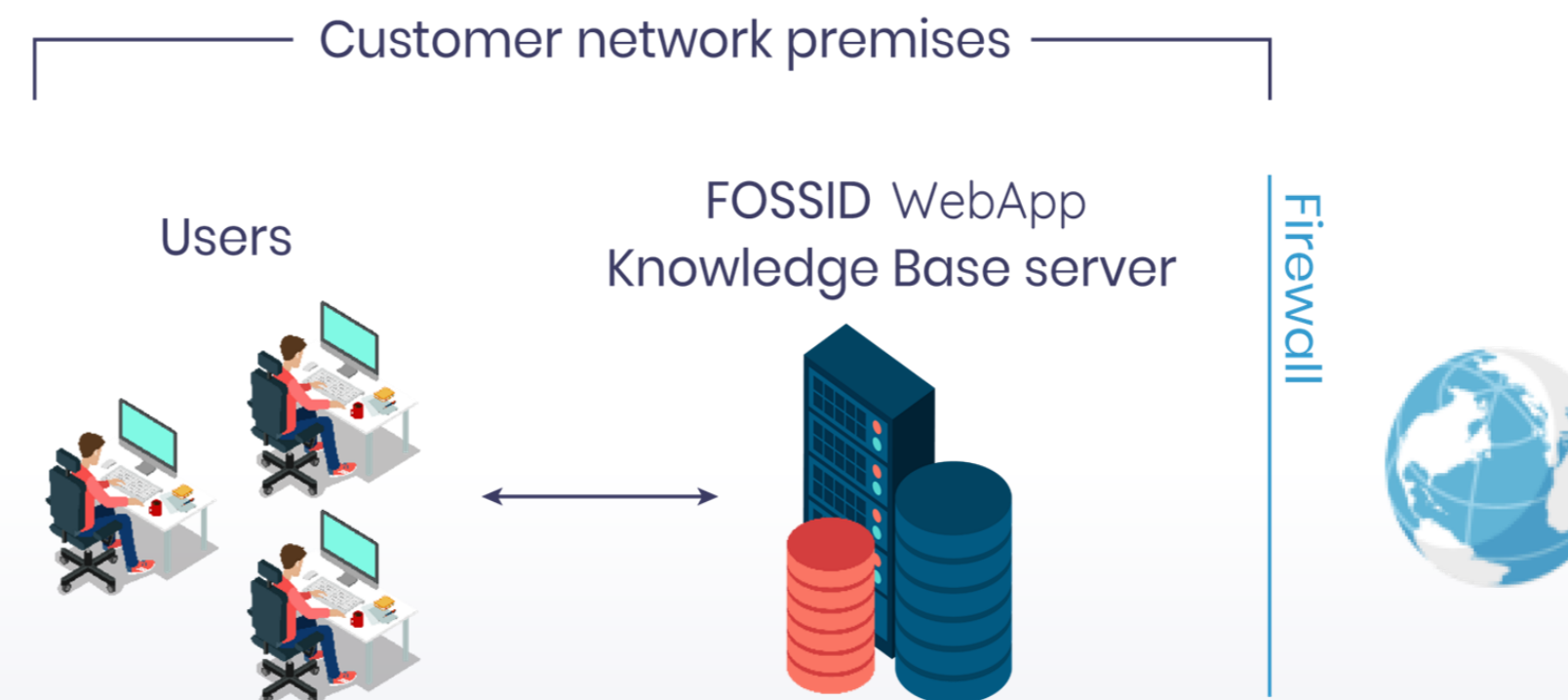
Hybrid Deployment

- Knowledge Base in the cloud
- No source code is ever transmitted
Only digital signatures of source code are used to query the FOSSID Knowledge Base.
- Continuous updates



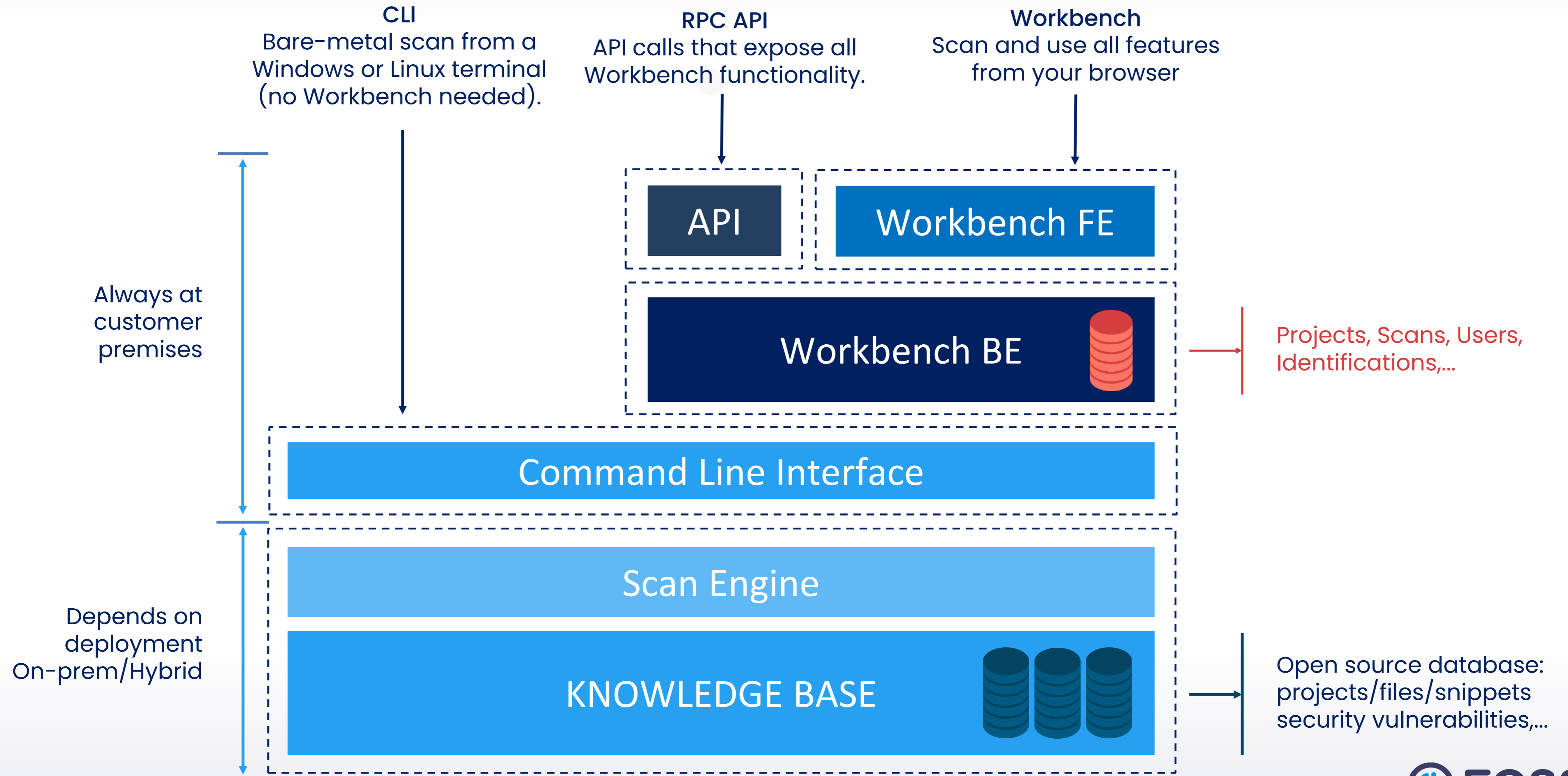
On-prem Deployment

- Knowledge Base locally deployed
- No external network traffic involved
Performing scans does not involve any network traffic outside your network premises.
- Monthly and weekly updates



ARCHITECTURE

FossID Technology Architectural View



Thanks





snyk

Develop fast.
Stay secure.



Developer Security Platform

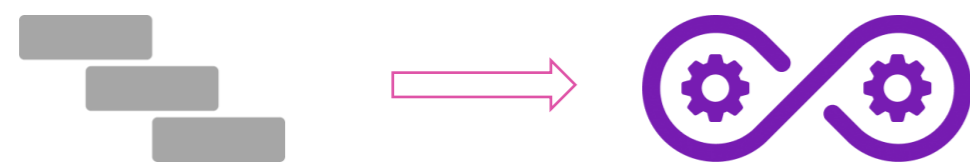


Developer Experience



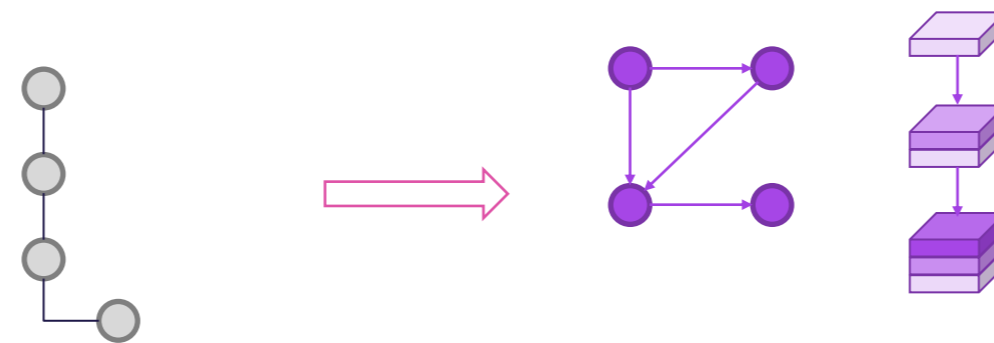
Development Has Changed

More development, faster



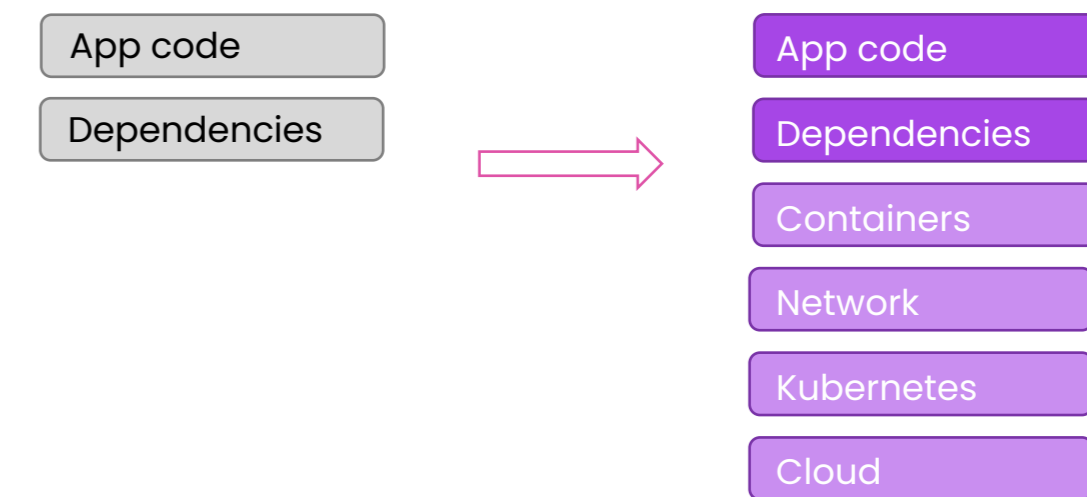
Need developers who understand and love to create secure applications

Software supply chain more complex



Require guidance and visibility into the entire software supply chain

The cloud is part of the code



Need to understand full scope of apps from code to cloud, and back to code

A Modern Approach to Security is Required

Traditional App Sec

Testing after development



Audit Based



Code and Infrastructure Secured Independently



Dev-First

Continuous Testing



Fix Based



Holistic Cloud Native Application Context



Snyk empowers secure developers

All your developers



Throughout their code

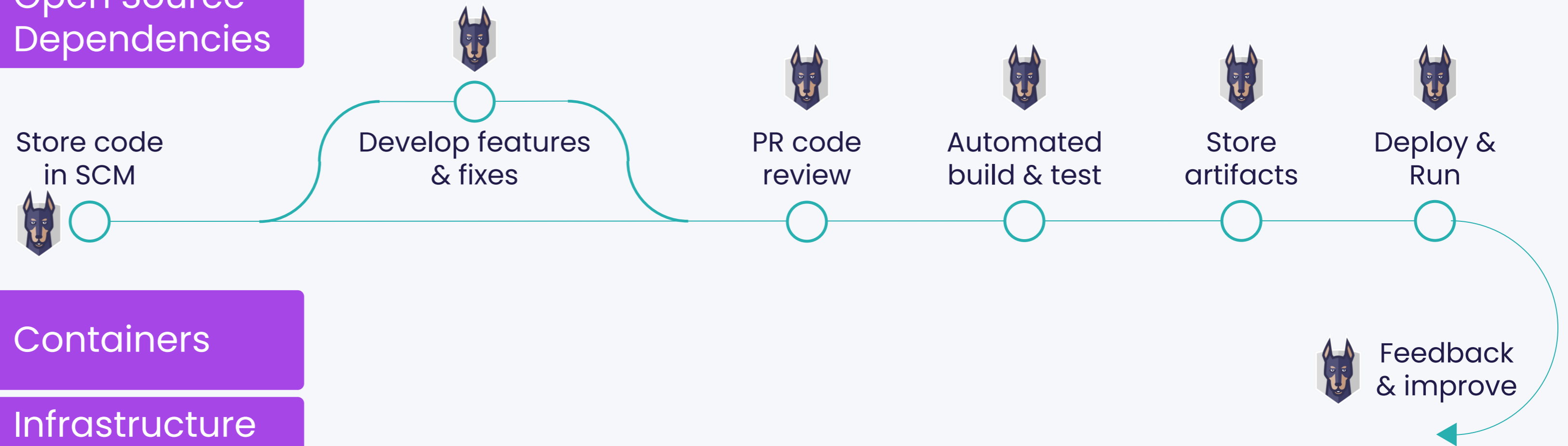
- Code
- Open Source Dependencies

In their natural workflow




- Containers
- Infrastructure as Code

Security Education



Snyk Provides Visibility and Developer Guidance In Your Software Supply Chain

Security policies to automate security at scale

 Open Source Dependencies

 Containers

Choose safe packages and containers

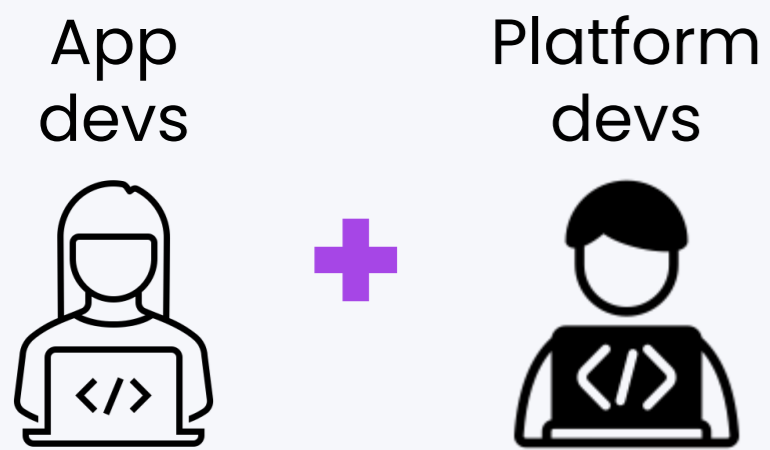
Identify and track all dependencies

Fix vulnerabilities

Govern releases

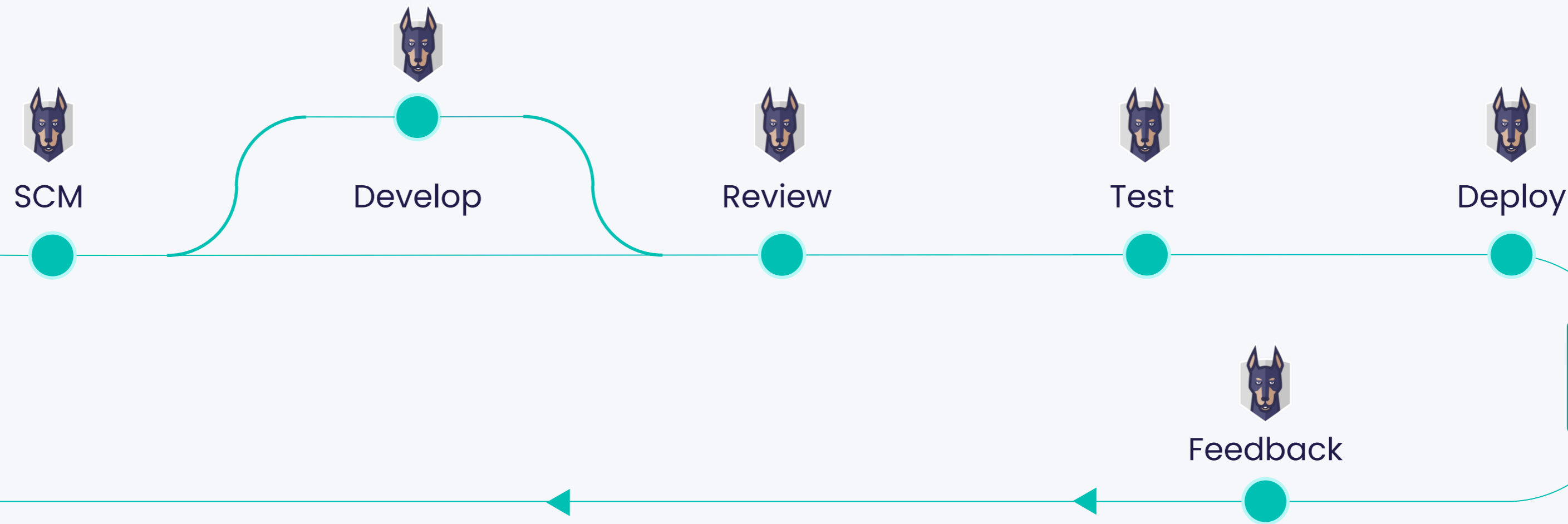
Test continuously

Snyk empowers secure cloud developers



Unified policy from code to cloud

- Code
- Open Source Dependencies
- Containers
- Infrastructure as Code



Feedback and prioritization from cloud back to code

Snyk 소개 | 개요

Snyk은 DevSecOps 환경에서 **개발 프로세스 지연 없이 지속적으로** 오픈소스의 보안취약점 및 라이선스 이슈를 식별, 모니터링 할 수 있도록 지원하는 **개발자 친화적인** 차세대 관리도구입니다.

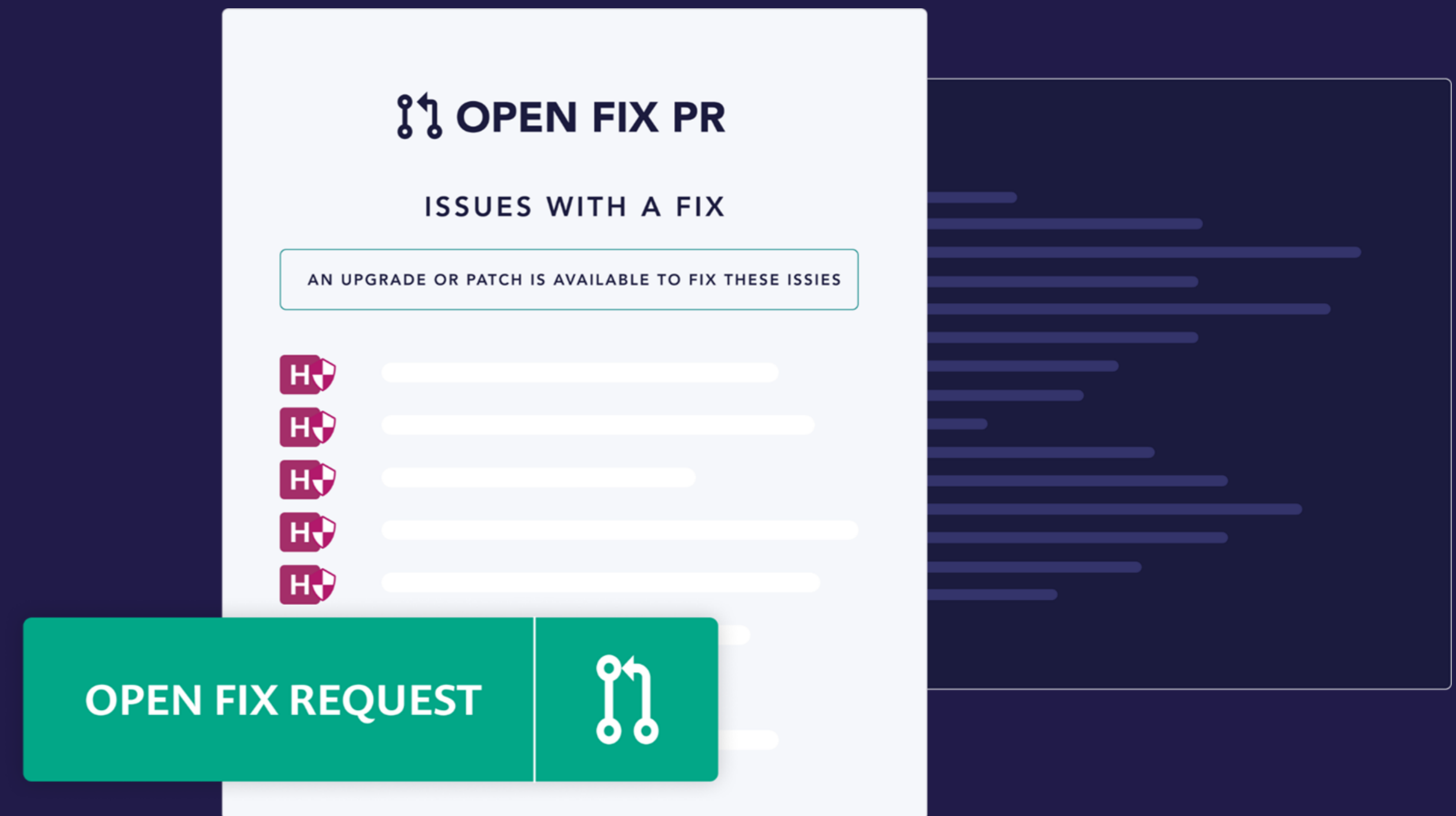


Automated Remediation

Solving the complex fix logic



Single-click fix pull request



**Be license compliant
as early as coding**

Start early

Verify compliance at every stage of development

Scan

Get visibility to all the licenses that are being used.

Comply

Define policies and take automatic actions to verify compliance.

Copyright info

BOM report

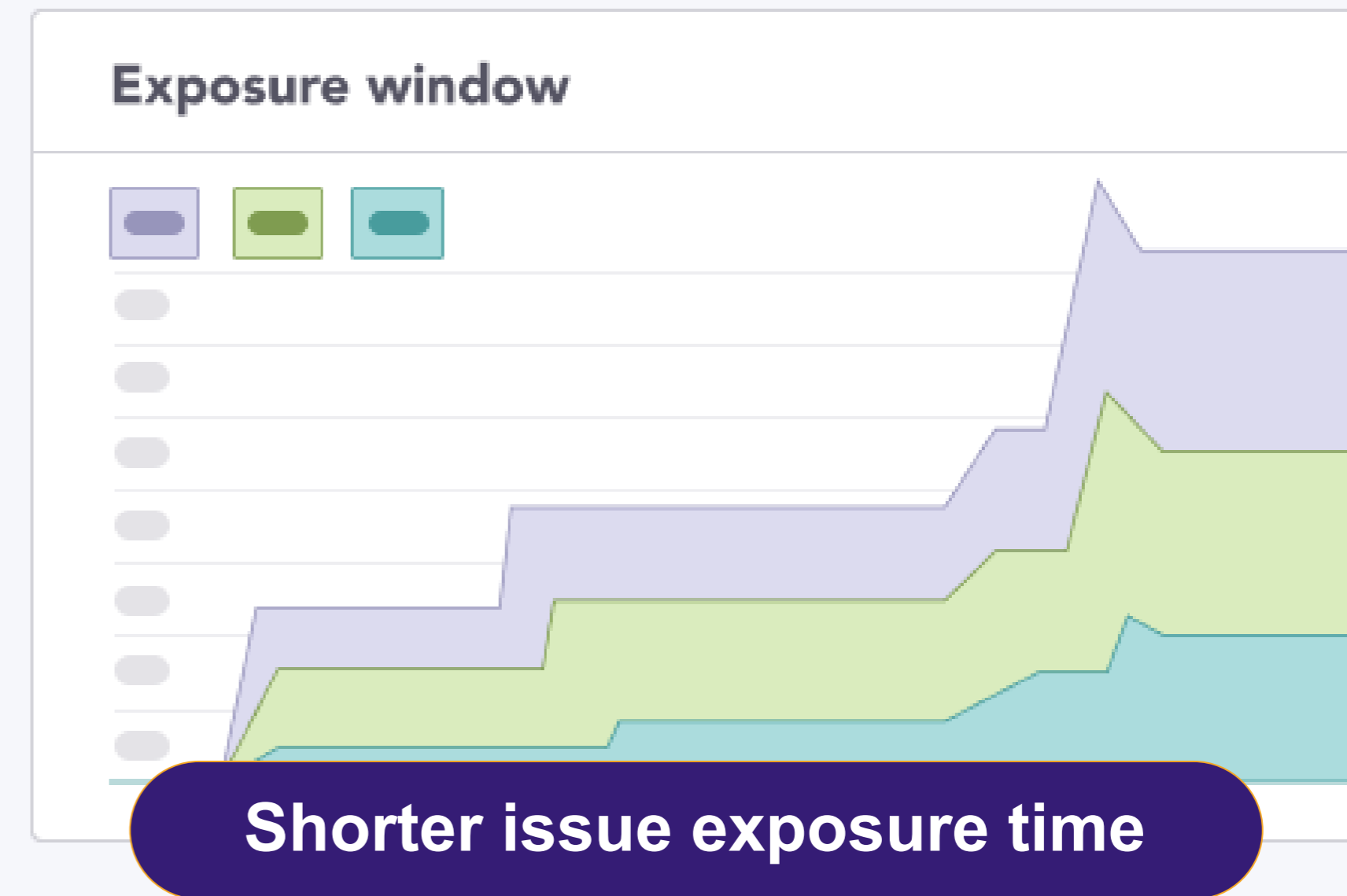
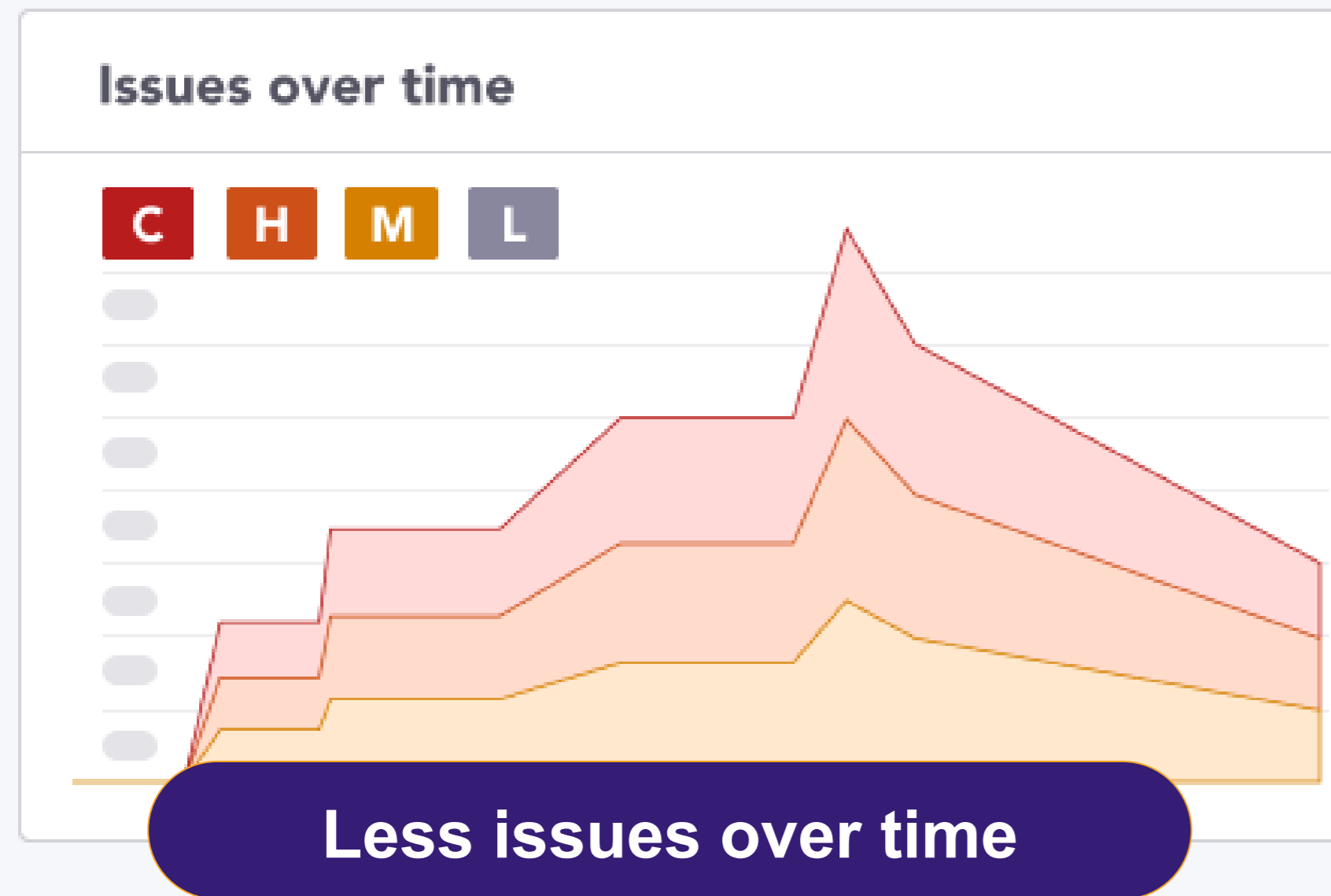
Policies

Gating non-compliant
packages

Legal team actionable
instructions

Automated Remediation

Fix MORE issues, QUICKER

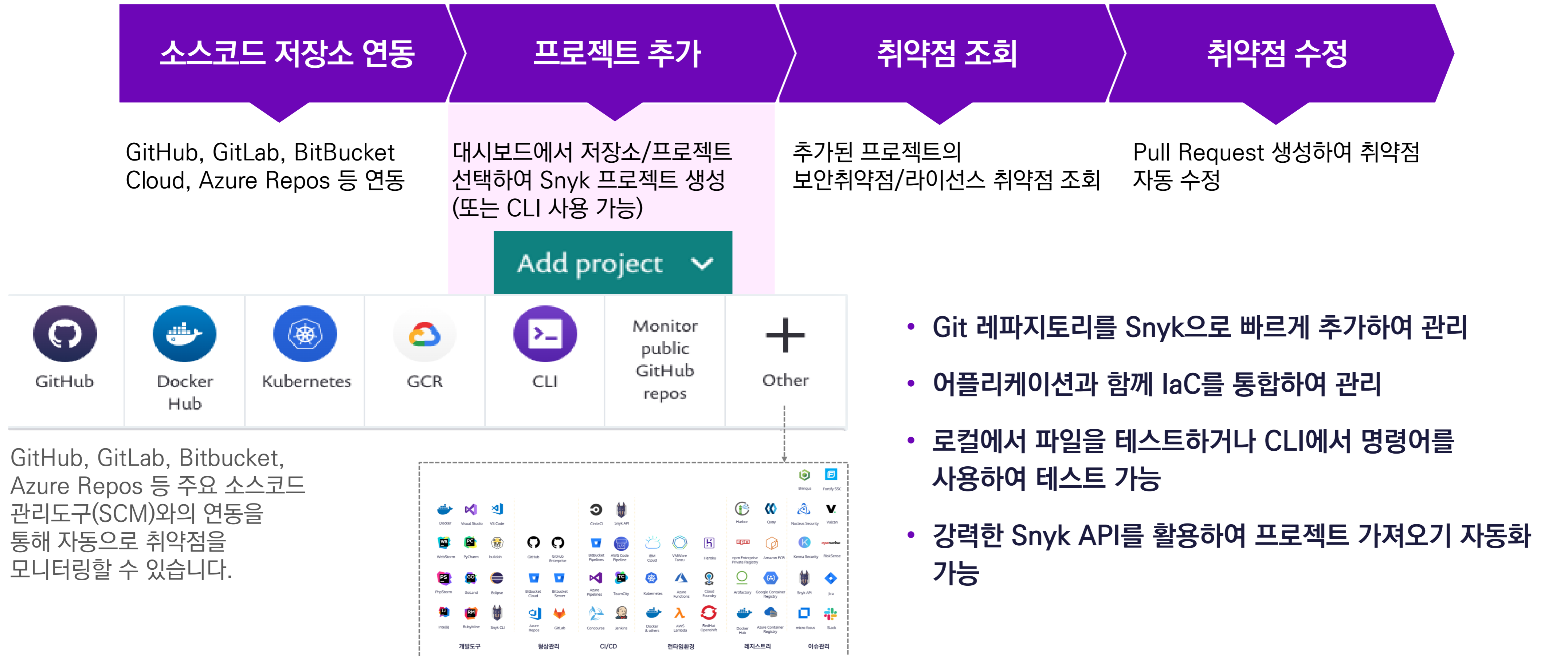


Accelerating MTTF (mean time to fix)

Snyk 소개 | 사용 프로세스

Snyk은 저장소와 연동된 Snyk 웹UI를 통해 저장소/프로젝트를 관리하고 실시간으로 취약점을 조회하여 자동 수정하는 간편한 프로세스를 제공합니다.

Snyk 사용 프로세스



- Git 레파지토리를 Snyk으로 빠르게 추가하여 관리
- 어플리케이션과 함께 IaC를 통합하여 관리
- 로컬에서 파일을 테스트하거나 CLI에서 명령어를 사용하여 테스트 가능
- 강력한 Snyk API를 활용하여 프로젝트 가져오기 자동화 가능

Snyk 주요 기능 | 대시보드

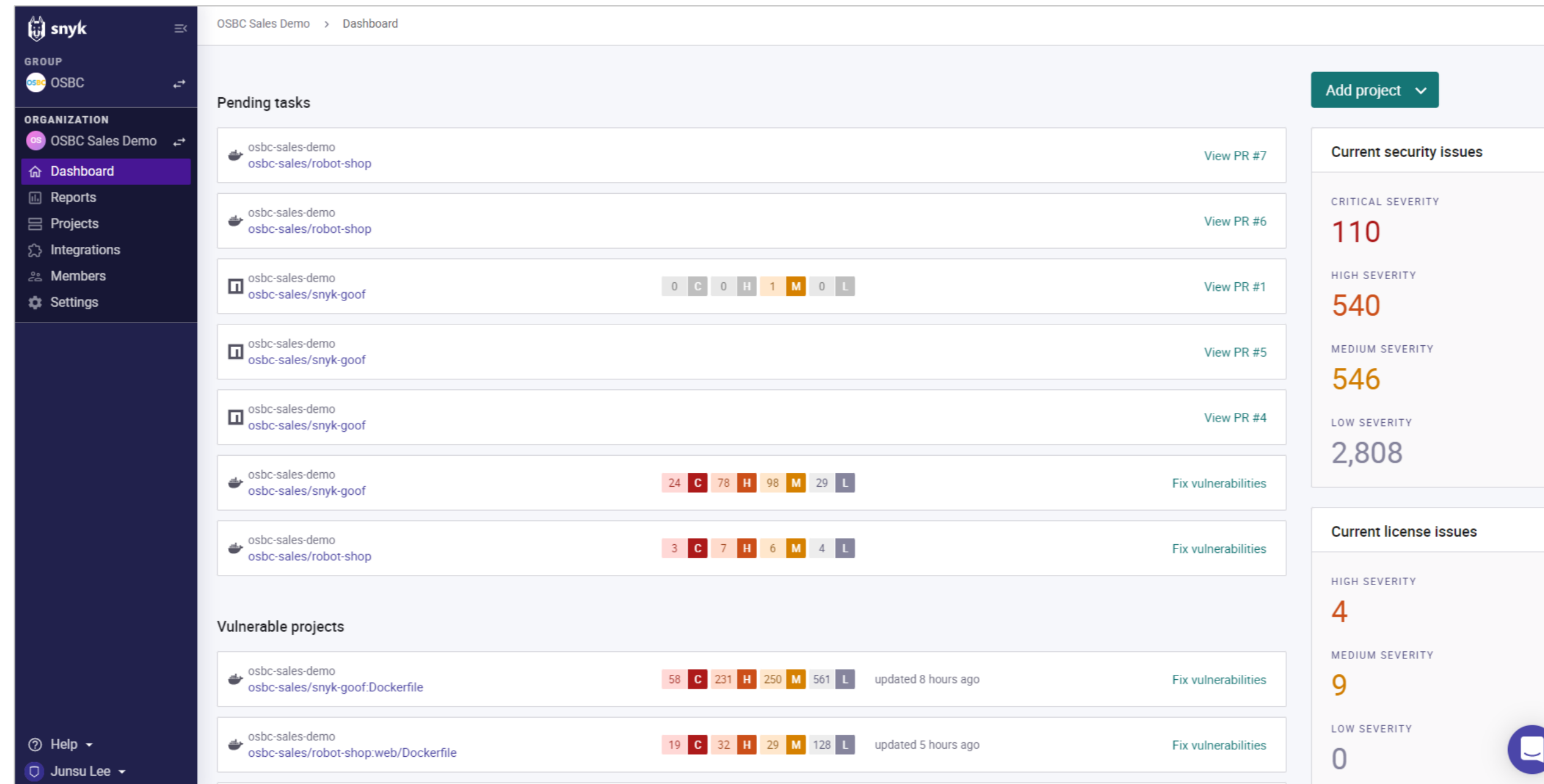
Snyk 대시보드에서는 사용자가 관리하고 있는 프로젝트 및 취약한 프로젝트의 현황을 직관적으로 표시해줍니다.

전반적인 보안취약점 상태

시간 경과에 따른 리스크,
노출 현황, 보안을 위한 조치
현황 모니터링

디펜던시 상태

전반적인 상태를 추적, 이슈
컴포넌트를 식별하고 조치
이행



실행가능성

솔루션이 존재하는 이슈들을
확인하고 자동으로 필터링

정책

자동화 되어있고 사용자 정의
설정이 가능한 규칙을
사용하여 보안 및 라이선스
규정 준수 관리

프로젝트 관리

다수의 프로젝트에서 확인되는 보안취약점 및 라이선스 이슈를
효율적으로 관리 가능

Snyk 주요 기능 | 프로젝트 현황 관리

Snyk의 프로젝트 현황 관리 화면에서 각 프로젝트별 Target 및 위험도 현황의 개요가 표시됩니다. 사용자는 각 프로젝트에 접근하여 이슈 확인, 수정, 세부 정보 확인 등의 세부 동작을 수행합니다.

The screenshot displays the Snyk dashboard interface. On the left, there is a navigation sidebar with sections for 'GROUP' (OSBC), 'ORGANIZATION' (OSBC Sales Demo), and various menu items like Dashboard, Reports, Projects, Integrations, Members, and Settings. A filter section on the left allows users to toggle 'SHOW' (With issues, Without issues) and 'INTEGRATIONS' (Bitbucket Server, CI/CLI, Docker Hub, GitHub, Kubernetes).

The main content area features a search bar for targets and an 'Add project' button. Below this, a summary message states: 'The last import successfully processed 69 projects from 2 sources. View the last import log for more details.' The dashboard lists three targets under the group 'osbc-sales/anyk-goof':

- Code analysis**: 0 C, 4 H, 7 M, 0 L. Tested a day ago.
- Dockerfile**: 58 C, 231 H, 250 M, 561 L. Tested 8 hours ago.
- package.json**: 3 C, 55 H, 55 M, 8 L. Tested a day ago.

A second target, 'osbc-sales/robot-shop', is highlighted with a red box and contains the following items:

- Code analysis**: 0 C, 19 H, 27 M, 0 L. Tested a day ago.
- cart/Dockerfile**: 2 C, 6 H, 15 M, 405 L. Tested 8 hours ago.
- cart/package.json**: 0 C, 0 H, 1 M, 0 L. Tested a day ago.
- catalogue/Dockerfile**: 2 C, 6 H, 15 M, 405 L. Tested 8 hours ago.
- dispatch/Dockerfile**: 6 C, 10 H, 7 M, 106 L. Tested 8 hours ago.
- fluentd/Kubernetes/fluentd.yaml**: 0 C, 0 H, 3 M, 1 L. Tested a day ago.
- K8s/helm/templates/cart-deployment.yaml**: 0 C, 0 H, 3 M, 3 L. Tested a day ago.
- K8s/helm/templates/catalogue-deployment.yaml**: 0 C, 0 H, 3 M, 3 L. Tested a day ago.

On the left side of the screenshot, four labels with dotted lines point to specific rows in the table:

- Snyk Code 분석 결과 (points to the 'Code analysis' row of the first target)
- Snyk Open Source 분석 결과 (points to the 'cart/package.json' row)
- Snyk Container 분석 결과 (points to the 'dispatch/Dockerfile' row)
- Snyk IaC 분석 결과 (points to the 'K8s/helm/templates/catalogue-deployment.yaml' row)

제품 종류에 따라 프로젝트 아이콘, 분석 결과 출처 표기

Snyk 주요 기능 | 프로젝트 세부

Snyk의 프로젝트 현황 관리 화면에서 각 프로젝트별 Target 및 위험도 현황의 개요가 표시됩니다. 사용자는 각 프로젝트에 접근하여 이슈 확인, 수정, 세부 정보 확인 등의 세부 동작을 수행합니다.

프로젝트 개요

The screenshot shows the Snyk project overview for 'snyk-goof' (master branch). It displays the target 'package.json' and provides an overview of the project's status. Key information includes:

- Created: Mon 10th Jan 2022
- Snapshot taken by snyk.io an hour ago
- Retest now button
- Imported by: Junsu Lee
- Project owner: Add a project owner
- Environment: Add a value
- Business criticality: Add a value
- Lifecycle stage: Add a value

 Navigation tabs for Overview, History, and Settings are visible at the top right of the project card.

이슈 목록

The screenshot displays the 'Issues' list for the project, with 91 issues identified. The 'Issues' tab is selected, and the 'Dependencies' tab shows 700 dependencies. A search bar and a 'Fix these vulnerabilities' button are at the top. The issues are sorted by highest priority score. A detailed view of a high-severity issue is shown:

- Issue:** npmconf - Uninitialized Memory Exposure
- Score:** 756
- Severity:** HIGH
- CVSS 7.4:** HIGH
- NPM:** NPM:NPMCONF:20180512
- Introduced through:** npmconf@0.0.24
- Fixed in:** npmconf@2.1.3
- Exploit maturity:** MATURE

 The interface includes filters for severity (Critical, High, Medium, Low) and a priority score slider. Action buttons for 'Ignore' and 'Fix this vulnerability' are provided for each issue.

오픈소스 디펜던시 목록

Snyk 주요 기능 | 프로젝트 세부 – Dependencies 결과화면

Dependencies 결과 화면에서 오픈소스 사용 내역(컴포넌트명, 버전 및 라이선스) 정보를 확인할 수 있습니다. 포스아이디 대비 최신버전에 대한 정보와 출시일 정보를 추가로 확인 가능합니다.

Created Mon 10th Jan 2022 | Snapshot taken by recurring test 14 hours ago | Retest now

IMPORTED BY: Junsu Lee
PROJECT OWNER: Add a project owner
TESTED WITH: package-lock.json, package.json
ENVIRONMENT: Add a value

BUSINESS CRITICALITY: Add a value
LIFECYCLE STAGE: Add a value
TAGS: Add a key/value...

Issues 93 | Fixes | Dependencies 700

이슈 목록 | 라이선스 정보

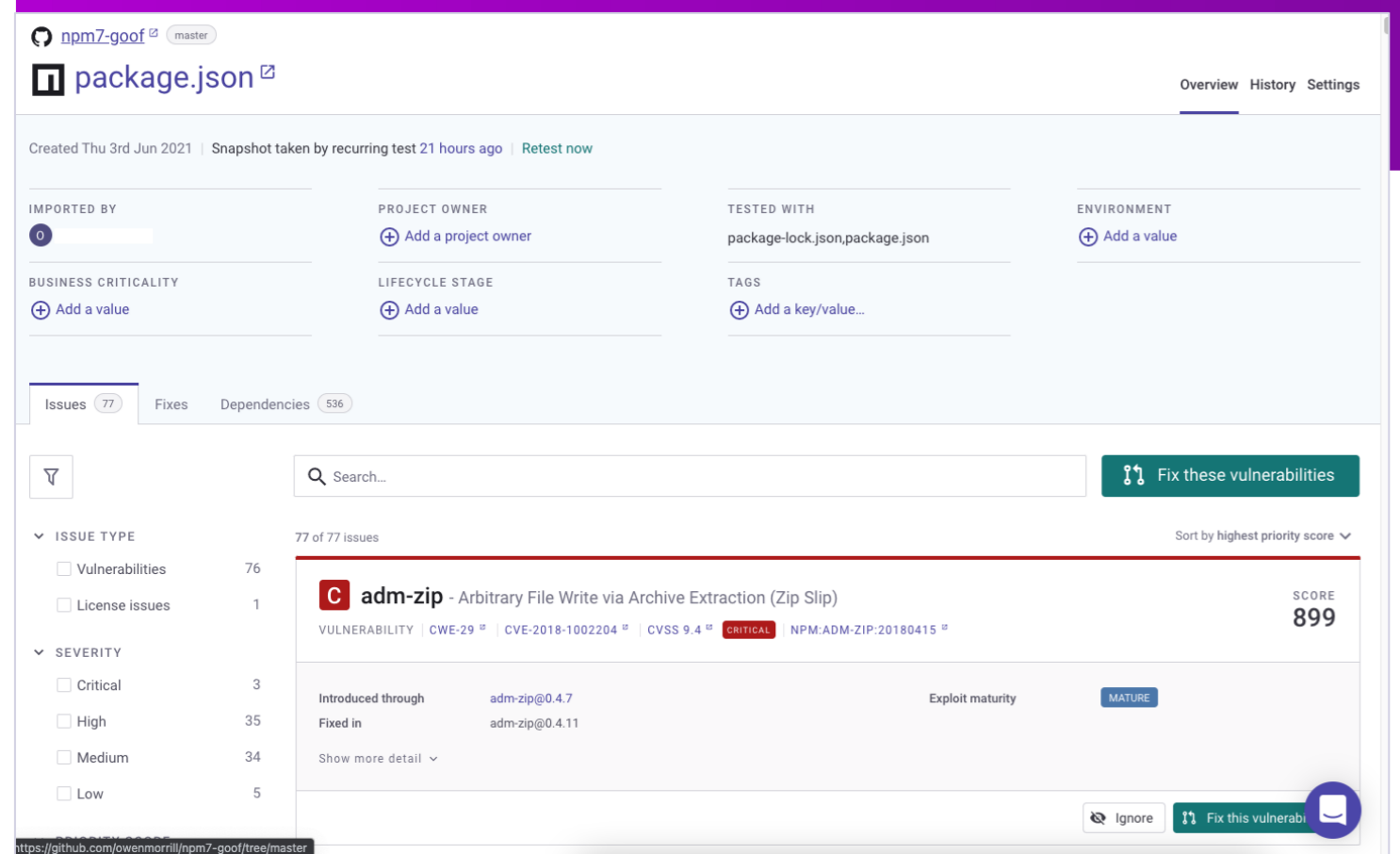
DEPENDENCY	LATEST	LAST PUBLISHED	ISSUES	LICENSES	COPYRIGHTS	PATHS
abbrev@1.0.7	1.1.1	Sep 28, 2017	0 C 0 H 0 M 0 L	ISC license	© Isaac Z. Schluete...	2
abbrev@1.1.1	1.1.1	Sep 28, 2017	0 C 0 H 0 M 0 L	ISC license	© Isaac Z. Schluete...	2
accepts@1.1.4	1.3.7	Apr 30, 2019	0 C 0 H 0 M 0 L	MIT license	© 2014 Jonathan Ong...	1
accepts@1.2.13	1.3.7	Apr 30, 2019	0 C 0 H 0 M 0 L	MIT license	© 2014 Jonathan Ong...	1
acorn@5.7.1	8.7.0	18 days ago	0 C 1 H 0 M 0 L	MIT license	© 2012-2018 by vari...	1
adm-zip@0.4.11	0.5.9	3 months ago	0 C 1 H 0 M 0 L	MIT license	© 1999 Masanao Izum...	1

오른쪽 상단: 저작권자 정보

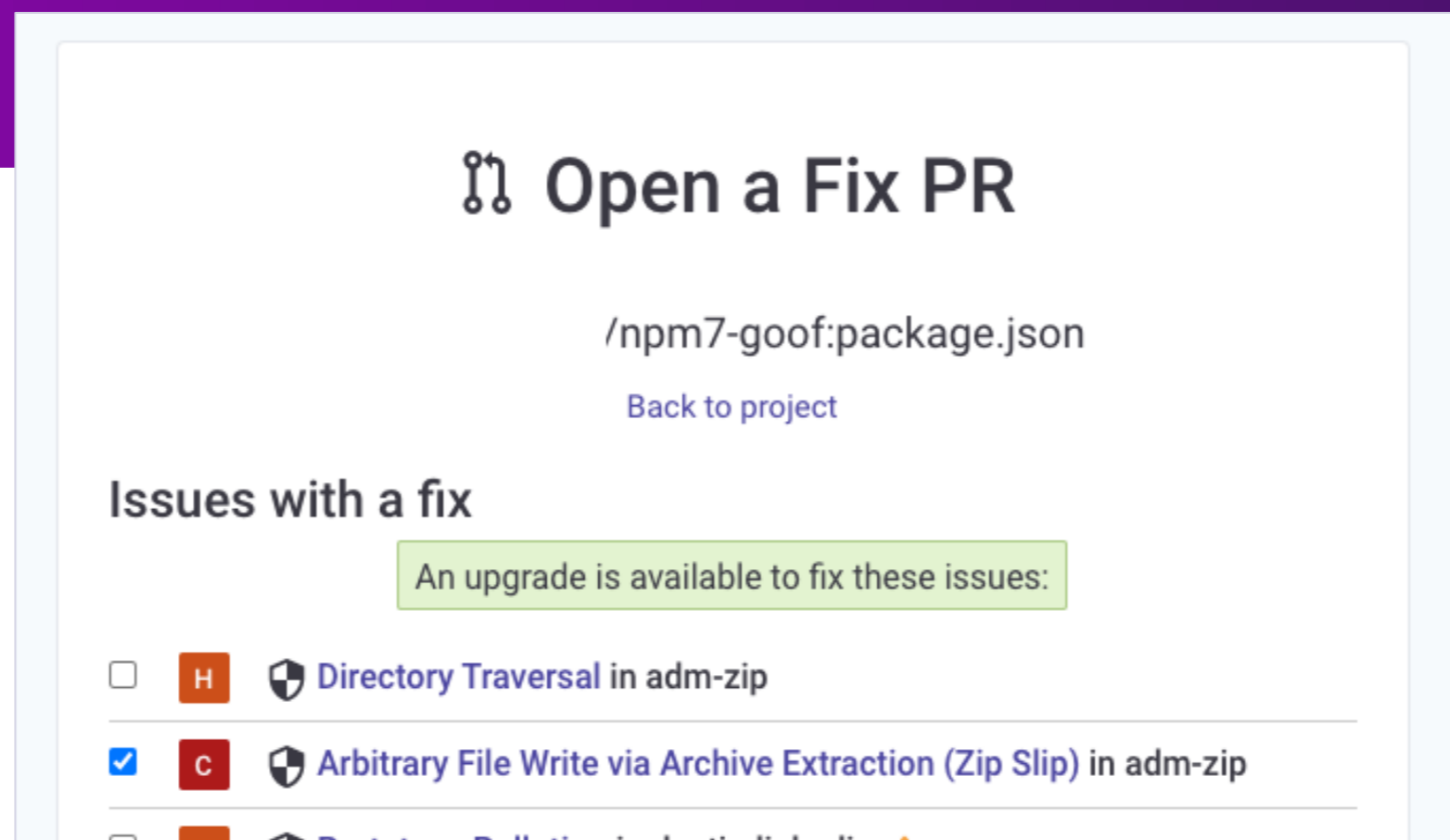
오픈소스
컴포넌트명/버전

Snyk 주요 기능 | 프로젝트 세부 - Pull Request 생성을 통한 자동 조치

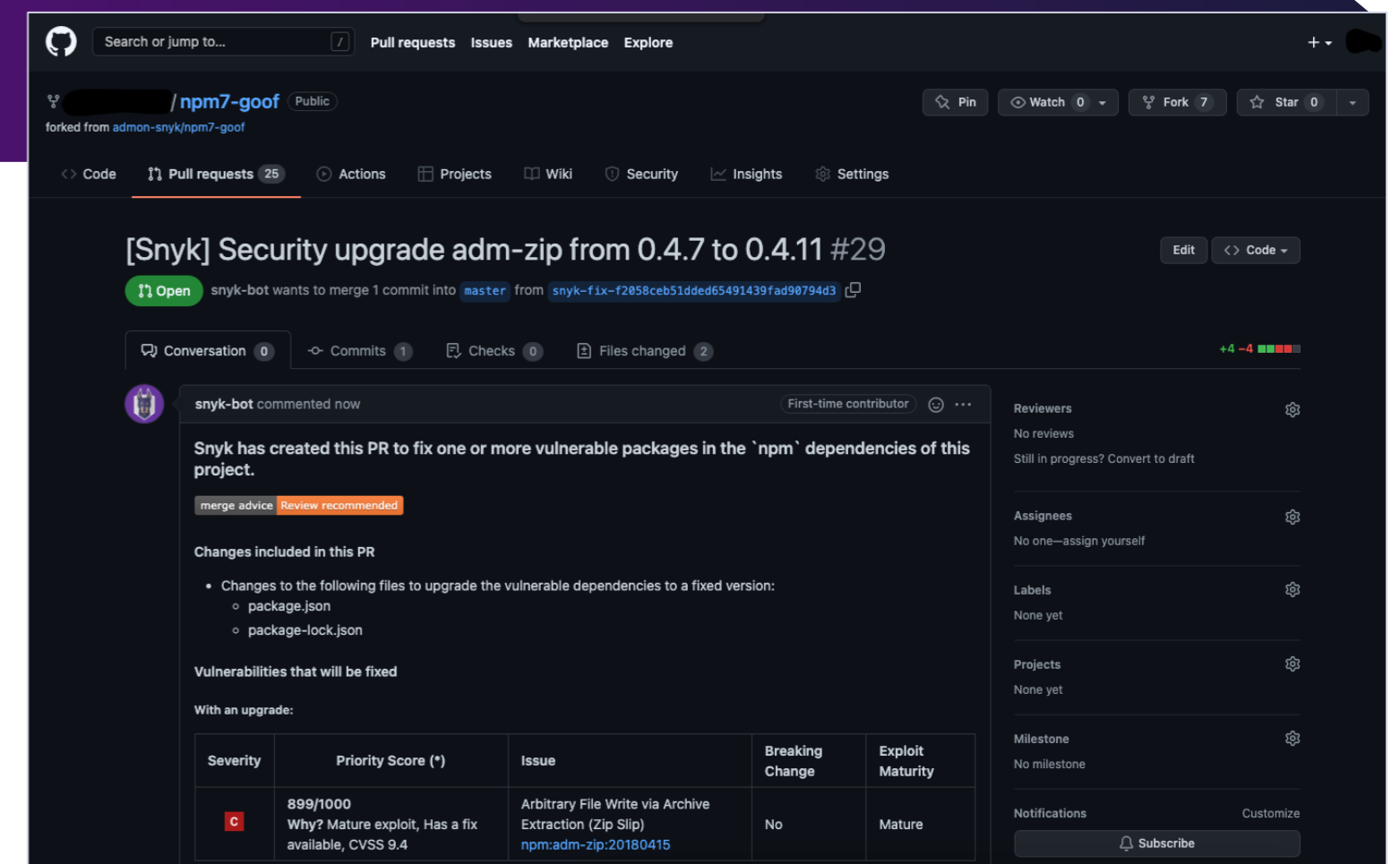
Snyk Open Source의 Auto Fix 기능을 이용해 취약한 버전의 오픈소스를 클릭 한 번에 자동 패치하여 관리할 수 있습니다.



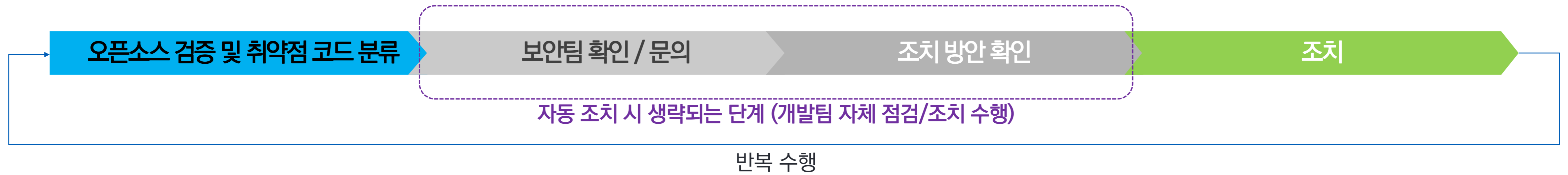
이슈 목록에서 Fix 버튼 클릭



Fix PR(Pull Request) 생성



Approve & Merge하여 반영



Snyk IDE 플러그인 | Snyk for Visual Studio Code 예시

The screenshot displays the Snyk IDE plugin interface in Visual Studio Code. The left sidebar shows a tree view of vulnerabilities categorized into Open Source Security (86 vulnerabilities), Code Security (21 vulnerabilities), and Code Quality (4 issues). The central editor shows the code for `index.js` with annotations highlighting vulnerabilities. The right-hand pane shows a detailed view of a high-severity vulnerability: "Unsanitized input from the HTTP request body [...] flows [...] into `child_process.exec` [...] where it is used to build a shell command. This may result in a Command Injection vulnerability." The pane also includes a list of tags (Security, Maintenance, Synclet, Spawn, Command), a note that the vulnerability was fixed by 54 projects, and example fixes from the community. At the bottom of the pane, there are buttons to "Ignore on line 161" and "Ignore in this file".

```
routes > JS index.js > create > create
135 11 (reminder) > 0);
136 var time = t.slice(reminder + remindToken.length);
137 time = time.replace(/\n$/, '');
138
139 var period = hms(time);
140
141 console.log('period: ' + period);
142
143 // remove it
144 t = t.slice(0, reminder);
145 if (typeof period !== 'undefined') {
146   t += ' [' + ms(period) + ']';
147 }
148 }
149 return t;
150 }
151
152 exports.create = function (req, res, next) {
153   // console.log('req.body: ' + JSON.stringify(req.body));
154
155   var item = req.body.content;
156   var imgRegex = /\!\[alt text\]\((http.*)\s".*/;
157   if (typeof item === 'string' && item.match(imgRegex)) {
158     var url = item.match(imgRegex)[1];
159     console.log('found img: ' + url);
160
161     exec('identify ' + url, function (err, stdout, stderr) {
162       console.log(err);
163       if (err !== null) {
164         console.log('Error (' + err + '):' + stderr);
165       }
166     });
167   } else {
168     item = parse(item);
169   }
170 }
171
172 new Todo({
173   content: item,
174   updated_at: Date.now(),
175 }).save(function (err, todo, count) {
176   if (err) return next(err);
177 }
178
179 /*
180 res.setHeader('Data', todo.content.toString('base64'));
181 res.redirect('/');
182 */
183
184 res.setHeader('Location', '/');
185 res.status(302).send(todo.content.toString('base64'));
186
187 // res.redirect('/#!' + todo.content.toString('base64'));
188 }
```

OPEN SOURCE SECURITY
Snyk found 86 vulnerabilities
Analysis took 6.19s, finished at 03:28 PM, 10/12/21

- package-lock.json goof - 86 vulnerabilities
 - adm-zip@0.4.7 - Arbitrary File Write via Archiv...
 - handlebars@4.0.14 - Prototype Pollution
 - kerberos@0.0.24 - DLL Injection
 - lodash@4.17.4 - Prototype Pollution
 - adm-zip@0.4.7 - Directory Traversal
 - ajv@6.10.2 - Prototype Pollution
 - ansi-regex@3.0.0 - Regular Expression Denial o...
 - bl@2.2.0 - Remote Memory Exposure

CODE SECURITY
Snyk found 21 vulnerabilities
Analysis took 2.96s, finished at 03:28 PM, 10/12/21

- index.js routes - 11 vulnerabilities
 - Unsanitized input from the HTTP request body ...
 - Unsanitized input from the HTTP request body ...
 - Unsanitized input from the HTTP request body ...
 - This endpoint handler performs a file system o...
 - This endpoint handler performs a file system o...
 - This endpoint handler performs a file system o...
 - This endpoint handler performs a file system o...
 - This endpoint handler performs a file system o...

CODE QUALITY
Snyk found 4 issues
Analysis took 2.96s, finished at 03:28 PM, 10/12/21

- index.js routes - 3 issues
- utils.js goof - 1 issue

HELP & FEEDBACK

- Help Snyk to make a better extension
- Send us feedback or report a bug
- Top 3 FAQ
 - 1. How to get the most out of Snyk's extension?
 - 2. How to ignore files and directories?
 - Add default .dcignore file to your workspace
 - Add a custom .dcignore file to your workspace

Snyk Code Vulnerability

H High
Unsanitized input from the HTTP request body [:155] flows [:155, :155, :157, :157, :158, :158, :158, :158, :159, :161, :161] into `child_process.exec` [:161], where it is used to build a shell command. This may result in a Command Injection vulnerability.

This vulnerability happens on line 161 [More info](#)

Security Maintenance Synclet Spawn Command

This vulnerability was fixed by 54 projects. Here are 3 example fixes.

chaitin/passionfruit [Example 1/3](#)

```
})
.post('/spawn', async ctx => {
  let pid = await state.device.spawn([ctx.request.body.bundle])
  let { device, bundle } = ctx.request.body
  let dev = await FridaUtil.getDevice(ctx.params.device)
  let pid = await dev.spawn([ctx.request.body.bundle])
  // todo: attach
  ctx.body = { status: 'ok' }
```

Support multiple synclets for a provider.
Handle errors in spawn
Refactoring log command.

Do you want to hide this suggestion from the results?

[Ignore on line 161](#) [Ignore in this file](#)

Snyk Vulnerability Scanner

Snyk 부가 지원 기능 | Snyk Vulnerability DB

Snyk Vulnerability DB는 가장 포괄적이고, 정확하며 시기적절한 정보를 제공하는 오픈소스 취약점 정보 DB입니다.

The screenshot shows the Snyk Vulnerability DB interface for CVE-2022-22965. The page title is "Remote Code Execution" and it affects org.springframework:spring-beans package, versions [,5.2.20] [5.3.0, 5.3.18]. The severity is 9.8 CRITICAL. The page includes sections for "How to fix?", "Overview", "Update Log", and "PoC". The PoC section shows a terminal window with the following commands:

```
1/ docker run -p 8888:8888 --rm --interactive --tty --name vm1 tomcat:9.0.2/ ./mvnw install
2/ docker cp target/handling-form-submission-complete.war vm1:/usr/local/tomcat/webapps/4/
curl -X POST -H "pre:<%> \ -H "post:>%> \ -F
'class.module.classLoader.resources.context.parent.pipeline.first.pattern=%
{pre}iSystem.out.println(123){post}i' \ -F
'class.module.classLoader.resources.context.parent.pipeline.first.suffix=.jsp' \ -F
'class.module.classLoader.resources.context.parent.pipeline.first.directory=webapps/handling-
form-submission-complete' \ -F
'class.module.classLoader.resources.context.parent.pipeline.first.prefix=rce' \ -F
'class.module.classLoader.resources.context.parent.pipeline.first.fileNameFormat=' \
http://localhost:8888/handling-form-submission-complete/greeting 5/ curl
http://localhost:8888/handling-form-submission-complete/rce.jsp
```

✓ 다양한 패키지매니저 기반 정보 제공

npm, Maven, Nuget, pip, cocoapods 등 패키지매니저와 Linux 배포판별 오픈소스 및 비정형 C/C++ 기반 오픈소스까지 폭넓게 지원

✓ 자체 전문가들이 최초 발견한 취약점 보유

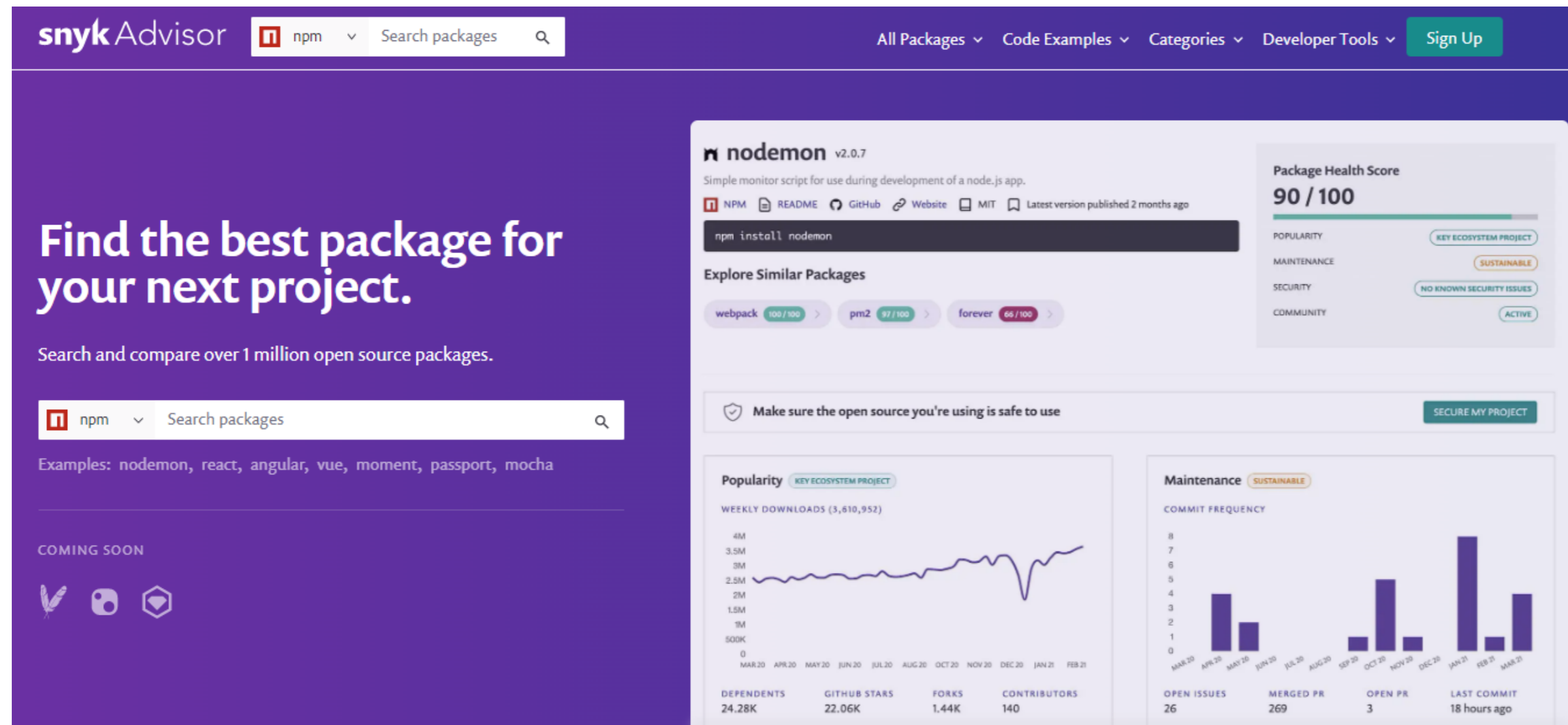
Snyk 자체 전문가들이 최초로 발견한 취약점 정보를 다량 보유하여 NVD 정보 대비 더 빠르게 정보 제공

✓ 조치 정보 제공

취약점 패치 정보 뿐만 아니라 Workaround 및 PoC 등 포괄적인 정보 제공

Snyk 추가 지원 기능 | Snyk Advisor

Snyk Advisor를 통해 오픈소스 패키지의 최신 취약점 정보를 제공합니다.



✓ 100만개 이상의 오픈소스 패키지 정보

Javascript, Python, Go 기반의 오픈소스 패키지 정보 보유

✓ 패키지 평가 정보 등 통계 정보 제공

평판(인기도), 유지보수 현황, 보안취약점, 커뮤니티 활성화 정도 등 다양한 지표를 기준으로 한 평가 점수 등 다양한 통계 정보 제공

✓ 패키지별 세부 정보 제공

코드 샘플, 참고 가능한 유사 패키지, FAQ 등



Popularity

Understand the prevalence of an open source package using metrics such as downloads and source code repository stars to measure popularity.



Maintenance

Get insights about an open source dependency health and assess the sustainability of the project.



Security

Quickly assess the security posture of an open source project and its past versions. Further connecting your project with Snyk will offer fix advice and automations that enable security at scale and speed.



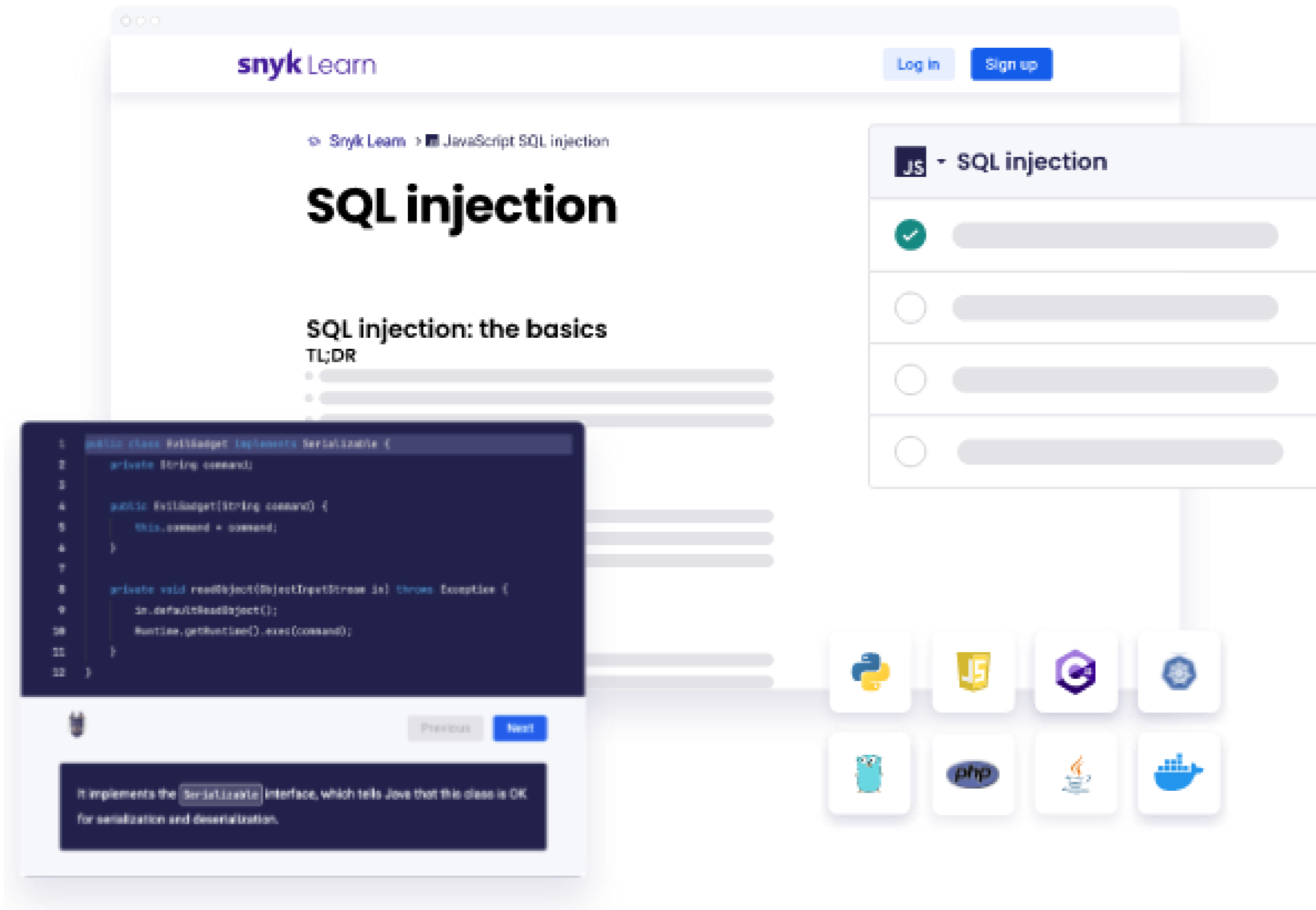
Community

Is the community thriving for an open source package you use in your project or had it gone stale? Gauge the status with project metrics.

Popular packages for: npm

Snyk 추가 지원 기능 | Snyk Learn

Snyk Learn을 통해 개발자를 위한 보안 조치 교육 프로그램을 제공합니다.



✓ 보안 전문가가 제작한 무료 교육

개발자를 위해 업계 전문가가 제작한 전문 교육으로 직관적인 온라인 교육 제공

✓ 필요한 관심 주제를 바로 학습 가능

즉석 학습 가능한 콘텐츠로 취약점 타입별로 바로 검색하여 학습할 수 있는 환경 제공

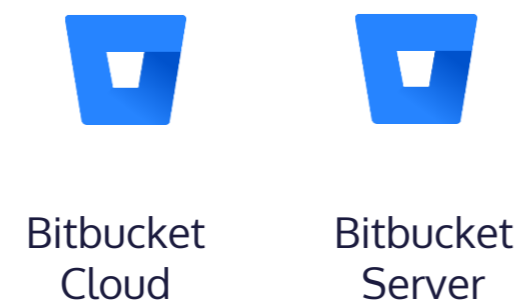
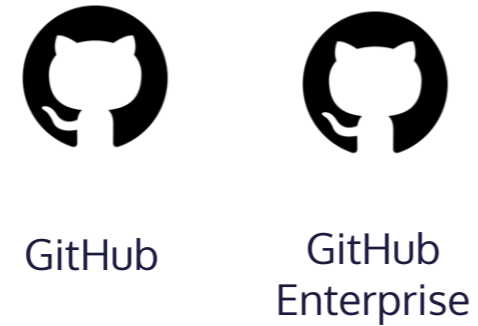
✓ 자가 테스트 가능한 환경 제공

자체 코드에서 발견된 문제를 기반으로 보안취약점을 이해하고, 수정하여 이슈 방지 가능

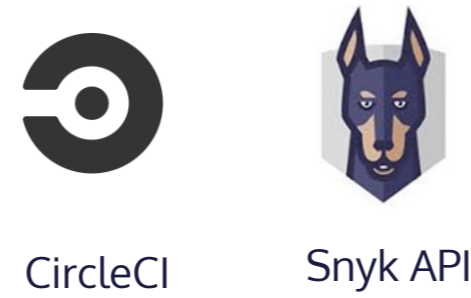
Snyk 특징점 | 다양한 도구와 연동체계



개발도구



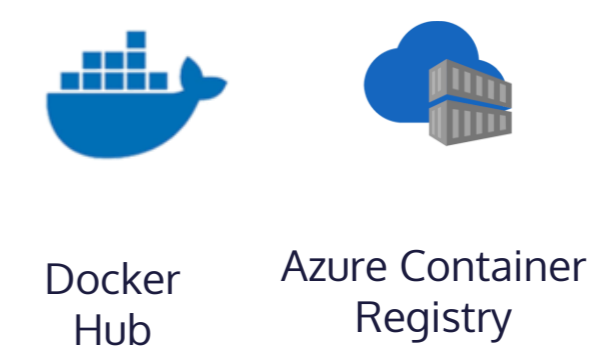
형상관리



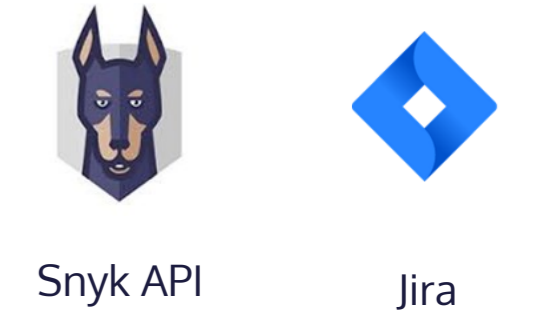
CI/CD



런타임환경



레지스트리



이슈관리

Snyk 특징점 | Snyk Vulnerability DB

Snyk Intel Vulnerability DB는 CVE 취약점 대비 **441% 더 많은 취약점 정보**를 포함하고 있고 NVD 대비 **최대 46일 더 빠르게** 취약점을 탐지하였습니다.
NVD에 기록된 JavaScript 관련 취약점의 **92%는 Snyk이 먼저 탐지**한 취약점들입니다.



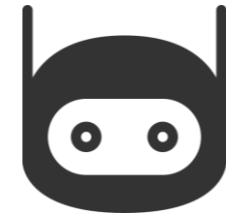
다양한 취약점DB로부터 풍부한 데이터 확보

CVE, NVD와 같은 리소스를 통해 수집되는 데이터는 분석, 테스트 및 정제되어 데이터베이스에 포함됩니다.



새로운 취약점에 대한 독점 리서치

Snyk 보안팀은 제로데이 취약점과 같은 주요 컴포넌트의 심각한 취약점을 발견하기 위해 노력하고 있습니다.



위협 인텔리전스 시스템

보안게시판, Jira 게시판, Github 커밋 등을 통해 미보고된 취약점을 자동으로 식별합니다.



커뮤니티와의 관계

커뮤니티와 협업하고 신규 취약점에 대한 현상금 제도를 운영하여 공개커뮤니티로부터 수백개의 취약점을 수집하고 있습니다.



학계와의 협업

버클리, 버지니아공대, 워터루 등 학계의 박사급 연구진들과 파트너관계를 맺고 도구, 방법론 및 데이터를 교환하고 있고 결과는 독점적으로 공개됩니다.

Snyk 특징점 | 주요 특징점

1

개발자 우선 접근방식, DevSecOps 실현

개발자가 편리하게 사용하도록 설계되어 마찰이 없고 직관적입니다. 개발자가 현재 사용하는 도구에서 직접 문제를 쉽게 찾을 수 있을 뿐만 아니라 빠르게 수정할 수 있도록 지원합니다.

2

업계 최고의 광범위한 보안 인텔리전스 데이터베이스

Snyk의 데이터베이스는 기존 상용 데이터베이스보다 441% 더 많은 취약점 정보를 포함하고 기존 상용 취약점 대비 평균 46일 더 빠르게 취약점을 식별하였습니다.

3

자동 Fix를 통한 관리 리소스 최소화

소스코드 저장소와 연동된 UI를 통해 Pull Request를 생성하고 자동으로 Fix 하거나 CLI에서는 명령어 하나로 자동으로 취약점 없는 버전으로 Fix 할 수 있는 기능을 제공합니다.

Thank you!



snyk