Building a better database How GitHub Structures their Advisory Database to Drive Developer Outcomes

@darakian - 25th March 2024



Who am I? Hi, I'm Jon (aka Darakian) 👋

- GitHub since 2021
- Security since 2018
- Tech since 2008
- Nerd since time immemorial
- <u>https://github.com/darakian/</u>

We want to secure your software

GitHub Security Lab

Securing the world's software, together

GitHub Security Lab's mission is to inspire and enable the community to secure the open source software we all depend on.

Follow @GHSecurityLab



GitHub Advisory Database

Security vulnerability database inclusive of CVEs and GitHub originated security advisories from the world of open source software

GitHub reviewed advisories

All reviewed	14,490
Composer	2,242
Erlang	22
GitHub Actions	11
Go	1,214
Maven	3,951
npm	3,147
NuGet	510
pip	2,083
Pub	7
RubyGems	743
Rust	657
Swift	29
Unreviewed advisories	
All unreviewed	197,394
কার্ট CC-BY-4.0 License	
🛱 Language support 🤅	

14,490 advisories
Improper Control of Generation of Code ('Code Injection') in jai-ext Critical CVE-2022-24816 was published for it.geosolutions.jaiext.jiffle:jt-jiffle (Maven) 1 hour ago

Q Search by CVE/GHSA ID, package, severity, ecosystem, credit...

Pow Mnesia cache doesn't invalidate all expired keys on startup (Moderate) CVE-2023-42446 was published for pow (Erlang) 4 hours ago

A remote command execution (RCE) vulnerability in the /api/runscript endpoint of FUXA (H	ligh	
CVE-2023-33831 was published for @frangoteam/fuxa (npm) yesterday		

Severity - CWE - Sort -

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P.

3

3

Vyper has incorrect re-entrancy lock when key is empty string (Moderate) CVE-2023-42441 was published for vyper (pip) yesterday

Arbitrary File Overwrite in Eclipse JGit (High) CVE-2023-4759 was published for org.eclipse.jgit:org.eclipse.jgit (Maven) yesterday

Cross-Site Request Forgery (CSRF) in usememos/memos (High) CVE-2023-5036 was published for github.com/usememos/memos (Go) 2 days ago

Directus affected by VM2 sandbox escape vulnerability (High) GHSA-22rr-f3p8-5gf8 was published for directus (npm) 4 days ago

Jetty's OpenId Revoked authentication allows one request (Low) CVE-2023-41900 was published for org.eclipse.jetty:jetty-openid (Maven) 4 days ago

LibreNMS Cross-site Scripting vulnerability (Critical)

CVE-2023-4982 was published for librenms/librenms (Composer) 5 days ago

About GitHub Advisory Database

LibreNMS Cross-site Scripting vulnerability (High CVE-2023-4981 was published for librenms/librenms (Composer) 5 days ago

What do I do? l'm a librarian 🤘

- curate advisories for the advisory database
- Ensure correctness, completeness and conciseness
- Quality over quantity
- https://github.com/advisories
- https://github.com/github/ advisory-database





First and foremost what are we doing here? Fixing code!

- People don't want to ship vulnerable code
- People don't want their time wasted by fuzzy matching
- People do understand that vulns are nuanced
- People do appreciate a best effort job when the effort is obvious
- People will forgive you for (understandable) mistakes

First and foremost what are we doing here? What are good outcomes?

- Minimize time from public disclosure to code fix deployed
- Minimize false positives to save developer time
- Maximize utility per advisory
- Maximize human curation impact
- Avoid the tar pit

The developer perspective

Ν

IVD Da	ashboard					20	23-07-18
CVEs F	Received and	d Processed			CVSS V3 Score D	istributior	ו
Time Period	New CVEs Received by NVD	New CVEs Analyzed by NVD	Modified CVEs Received by NVD	Modified CVEs Re- analyzed by NVD		Severity	Number of Vulns
	-		-			CRITICAL	20138
Today	171	156	15	0		нідн	54575

b

Iotat	220033	CVL Vullerabilities	220033
Received	1	Checklists	617
Awaiting Analysis	574	US-CERT Alerts	249
Undergoing Analysis	607	US-CERT Vuln Notes	4486
Modified	73565	OVAL Queries	10286
Deferred	115	CPE Names	1112465
Rejected	12805		

Surely not all of them



Scope We can do anything so long as we don't do everything

Supported ecosystems

Unfortunately, we cannot accept community contributions to advisories outside of our supported ecosystems. Our curation team reviews each community contribution thoroughly and needs to be able to assess each change.

Generally speaking, our ecosystems are the namespace used by a package registry. As such they're focused on packages within the registry which tend to be dependencies used in software development.

Our supported ecosystems are:

- Composer (registry: https://packagist.org)
- Erlang (registry: https://hex.pm/)
- GitHub Actions (registry: https://github.com/marketplace?type=actions)
- Go (registry: https://pkg.go.dev/)
- Maven (registry: https://repo.maven.apache.org/maven2)
- npm (registry: https://www.npmjs.com/)
- NuGet (registry: https://www.nuget.org/)
- pip (registry: https://pypi.org/)
- Pub (registry: https://pub.dev/)
- RubyGems (registry: https://rubygems.org/)
- Rust (registry: https://crates.io/)
- Swift (registry: namespaced by dns)

If you have a suggestion for a new ecosystem we should support, please open an issue for discussion.



(Ecosystem, Package Name) => one and ONLY one thing (Ecosystem, Package Name) <= one and ONLY one thing





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- Go (registry: https://pkg.go.dev/)
- Maven (registry: https://repo.maven.apache.org/maven2)
- npm (registry: https://www.npmjs.com/)
- NuGet (registry: https://www.nuget.org/)
- pip (registry: https://pypi.org/)
- Pub (registry: https://pub.dev/)
- RubyGems (registry: https://rubygems.org/)
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CPE is not bijective Four different roots

Known Affected Software Configurations Switch to CPE 2.2

Configuration 1 (<u>hide</u>)	
<pre></pre>	Up to (excluding
Show Matching CPE(s)	4.17.5

Known Affected Software Configurations Switch to CPE 2.2

Configuration 1 (<u>hide</u>)	
賽 cpe:2.3:a:nodejs:undici:*:*:*:node.js:*:*	Up to (excluding)
Show Matching CPE(s)	5.26.2

Known Affected Software Configurations Switch to CPE 2.2

Configuration 1 (<u>hide</u>)

<pre></pre>	Up to (excluding) 5.7.2	
<pre> ¥ cpe:2.3:a:npmjs:semver:*:*:*:*:node.js:*:* </pre> Show Matching CPE(s)	From (including) 6.0.0	Up to (excludin 6.3.1
<pre> cpe:2.3:a:npmjs:semver:*:*:*:*:node.js:*:* Show Matching CPE(s) </pre>	From (including) 7.0.0	Up to (excludin 7.5.2

Known Affected Software Configurations Switch to CPE 2.2

Configuration 1 (<u>hide</u>)	
賽 cpe:2.3:a:mathjs_project:mathjs:*:*:*:*:*:*:*	Up to (excludin
Show Matching CPE(s)	3.17.0



https://nvd.nist.gov/vuln/detail/CVE-2018-3721

https://nvd.nist.gov/vuln/detail/CVE-2023-45143

https://nvd.nist.gov/vuln/detail/CVE-2022-25883

https://nvd.nist.gov/vuln/detail/CVE-2017-1001003

CPE is not bijective Index for the benefit of the sca

Known Affected Software Configurations sw

Configuration 1 (hide)

賽 cpe:2.3:a:lodash:lodash:*:*:*:*:node.js:*:*

Show Matching CPE(s)

Package 🗖 lodash (npm

Known Affected Software Configurations Switch to CPE 2.2

Configuration 1 (<u>hide</u>)	
" " cpe:2.3:a:nodejs:undici:*:*:*:*:node.js:*:*	Package
<u>Show Matching CPE(s)</u> ▼	undici (npm)

Known Affected Software Configurations Switch to CPE 2.2

Configuration 1 (<u>hide</u>)		
<pre> cpe:2.3:a:npmjs:semver:*:*:*:*:node.js:*:* Show Matching CPE(s) </pre>	Up to (excludin 5.7.2	Package
<pre> ¥ cpe:2.3:a:npmjs:semver:*:*:*:*:node.js:*:* </pre> Show Matching CPE(s)	From (including	
<pre> ¥ cpe:2.3:a:npmjs:semver:*:*:*:*:node.js:*:* </pre> Show Matching CPE(s)	From (including	7.5.2

Known Affected Software Configurations Strike to CDC 2.2

Configuration 1 (hide) Package **业** cpe:2.3:a:mathjs_project:mathjs:*:*:*:*:*:* 🔲 mathjs (npm <u>Show Matching CPE(s)</u>▼

	e	

m)		Affected versions < 4.17.5	Patched versions 4.17.5
	https://githu	ub.com/advisories/GHSA	-fvqr-27wr-82fm
ר)		Affected versions < 5.26.2	Patched versions 5.26.2
	https://githuk	o.com/advisories/GHSA-v	vqq4-5wpv-mx2g
om)		Affected versions >= 7.0.0, < 7.5.2 >= 6.0.0, < 6.3.1 < 5.7.2	Patched versions 7.5.2 6.3.1 5.7.2
	https://gith	ub.com/advisories/GHSA	-c2qf-rxjj-qqgw
n)		Affected versions < 3.17.0	Patched versions 3.17.0

https://github.com/advisories/GHSA-pv8x-p9hq-j328



Anatomy of an attack A chain of supply



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Anatomy of an attack A web of supply







Anatomy of an attack Where bugs manifest in the web









Anatomy of an attack The alert chain



Signal to noise Alert fatigue is the enemy



Description

marcador package in PyPI 0.1 through 0.13 included a code-execution backdoor.



CVE List from the CNA.

Note: NVD Analysts have published a CVSS score for this CVE based on publicly available information at the time of analysis. The CNA has not provided a score within the CVE List.

References to Advisories, Solutions, and Tools

By selecting these links, you will be leaving NIST webspace. We have provided these links to other web sites because they may have information that would be of interest to you. No inferences should be drawn on account of other sites being referenced, or not, from this page. There may be other web sites that are more appropriate for your purpose. NIST does not necessarily endorse the views expressed, or concur with the facts presented on these sites. Further, NIST does not endorse any commercial products that may be mentioned on these sites. Please address comments about this page to nvd@nist.gov.

Hyperlink	Resourc
http://pypi.doubanio.com/simple/request	Third Party A
https://github.com/joajfreitas/marcador/issues/5	Exploit Iss
https://pypi.org/project/marcador/	Product

Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

uvisory

sue Tracking Third Party Advisory

QUICK INFO

CVE Dictionary Entry: CVE-2022-28470 **NVD Published Date:** 05/08/2022 **NVD Last Modified:** 05/17/2022 Source: MITRE

https://nvd.nist.gov/vuln/detail/CVE-2022-28470

Hyperlink

http://pypi.doubanio.com/simple/request https://github.com/joajfreitas/marcador/issues/5 https://pypi.org/project/marcador/

Weakness Enumeration

CWE-ID

NVD-CWE-noinfo

CWE Nai

Insufficient In

Known Affected Software Configurations Switch to CPE 2.2

Configuration 1 (<u>hide</u>)

Show Matching CPE(s)▼

https://nvd.nist.gov/vuln/detail/CVE-2022-28470



me	Source
nformation	NIST

From (including)	Up to (including)
0.1	0.13



		Q Type // to search		
Projects	I Security	🗠 Insights		
project, and its malicious backdoor is the request package. Even if the				

using pip3 install marcador==0.13 -i http://pypi.doubanio.com/simple --trusted-host pypi.doubanio.com, the request malicious plugin

https://github.com/joajfreitas/marcador/issues/5



joajfreitas / marcador



joajfreitas on Mar 28, 2022

Just so I understand. You are using the <u>http://pypi.doubanio.com/simple</u> mirror when installing marcador. The malicious package is present in this mirror? Is it also present in the official pypi mirrors?

I see no problem in removing those versions from pypi just want to understand a bit better the thread model here :)



request package was removed by pypi, many mirror sites did not completely delete this package, so it could still be installed. When using pip3 install marcador==0.13 -i http://pypi.doubanio.com/simple --trusted-host pypi.doubanio.com, the request malicious plugin can be successfully installed.

https://github.com/joajfreitas/marcador/issues/5

Q	Туре	// to	search
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Owner

We cannot expect better unless we enable better

You're a 10x hacker and it must be someone else's fault.



Blaming the User

Pocket Reference



@ThePracticalDev

How do we do that? Where are we in the web?

- Our readers: Developers
 - We can inspect their source code
 - We cannot inspect their build systems
 - We cannot inspect their deploy environment

How do we do that? What tools are at hand?

- We have source code to inspect
 - Manifest and lock files are common
 - We can know exactly what packages get used
 - We can know roughly what versions get used
 - We can model this in a database and index security claims

How do we do that? The plan

- Index vulns on packages
 - Zero false positives by design
 - Quick delivery in the developer workflow
 - Common language to discuss vulns
 - Security claims are verifiable
 - Security claims are contestable

Anatomy of an advisory The alert pipe



Anatomy of an advisory The alert pipe







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Anatomy of an advisory The alert pipe











Anatomy of an advisory And it scales







Alerts must flow

Fastest patch in the west other geos also supported!







year-month:hour

https://blog.sonatype.com/why-did-log4shell-set-the-internet-on-fire

Fastest patch in the west other geos also supported!







2.0.0 - 2.14.0

year-month:hour

https://www.sonatype.com/resources/log4j-vulnerability-resource-center



The long view



Open source It's a trust building exercise





We are not perfect nor do we pretend to be

Does the advisory database cover other maven repositories? #2900 🛈 Open joshbressers opened this issue on Oct 31, 2023 . . . As best as I can tell, most of the current Java packages cover Maven Central and not other maven repositories For example the Atlassian maven repo https://packages.atlassian.com/content/repositories/atlassian-public/com/atlassian/ contains confluence Java packages where Maven Central does not https://repo.maven.apache.org/maven2/com/atlassian/ If we look at the MVN Repository site, we can see the top maven repositories https://mvnrepository.com/repos (there are shockingly more of these than I expected) Thanks in advance \odot darakian on Oct 31, 2023 Member) ··· The short answer is Sorta. As of today our data should be considered to refer to objects on maven central only and if the package names and versions happen to be useful when read in the context of another registry then that's a happy accident. Longer term we've got a conversation going with OSV here ossf/osv-schema#208 on how to properly address the data which is happy accident today.



 \odot

https://github.com/github/advisory-database/issues/2900

We get it wrong but we make it right

[GHSA-f8vr-r385-rh5r] hyper and h2 vu
Merged advisory-databa merged 1 commit into seanmonstar/advisory-imp
□ □
seanmonstar commented on Apr 12, 2023
Updates Affected products Description Source code location Comments
The code lives in the h2 library, a fix will only require a new h2 version. A since hyper's dependency range allows the new version to be used once it
-O- Simprove GHSA-f8vr-r385-rh5r
P github-actions bot changed the base branch from main to sea
advisory-database bot merged commit cd971e5 into seanmonstation on Apr 12, 2023 2 checks passed

e #2057 <> Code -
r 🖵 on Apr 12, 2023
+3 –22
Reviewers හි No reviews
Assignees රූ No one— <u>assign yourself</u>
Labels හි None yet
Projects 😥 None yet
Milestone හි
Development Successfully merging this pull request may close these issues.

https://github.com/github/advisory-database/pull/2057

We can't do it all The siren song of the tar pit



They are part of all the ecosystems.

That's kinda the problem actually. Our ecosystems provide a one to one mapping between some package namespace and an advisory. We don't have false positives as a result and not having false positives (via dependency matching) results in more actionable advisories and better outcomes for developers receiving alerts.

What could possibly be done to improve these bulletins?

It's an open question and one that we're thinking about.

For what it's worth we do have plenty of advisories which are about C/C++ code which has been bundled into a package in one of our ecosystems

eg. https://github.com/advisories?query=tensorflow+type%3Areviewed+ecosystem%3Apip

 \odot

https://github.com/github/advisory-database/issues/2963

database for C / C++ packages #2963
•••
ons are not accepted for advisories outside the supported ecosystems. But some d improvements are in C and C++ packages that don't have an "ecosystem" as
<u>kf-cjwr</u> in light of all the confusion seen in <u>madler/zlib#868 (comment)</u> . But
?
•••
Member edited by darakian · Edits - ···

We're on a journey join us won't you?



Write advisories? Call out your artifacts

Spring [®] by VMware Tanzu Why Spring ~ Learn ~ Pr	ojects 🗸 🛛 Academy 🕥	Spring Wel
Spring Security Advisories All advisories		High severity
CVE-2024-22243: Spring Framework URL Parsing with		Vulnerability de
Host Validation	Reportir	
HIGH FEBRUARY 21, 2024 CVE-2024-22243	To report a s within the Sr	Package
Description		🖊 org.spring
Applications that use UriComponentsBuilder to parse an externally provided URL (e.g. through a query parameter) AND perform validation checks on the host of the parsed URL may be vulnerable to a open redirect attack or to a SSR attack if the URL is used after passing validation checks.	RF	
Affected Spring Products and Versions		
Spring Framework		
• 6.1.0 - 6.1.3		Description
• 6.0.0 - 6.0.16		•
• 5.3.0 - 5.3.31		
Older, unsupported versions are also affected		Applications
Mitigation		validation ch
Upgrade Spring Framework as follows:		after passing
• 6.1.x users should upgrade to 6.1.4		
• 6.0.x users should upgrade to 6.0.17		Reference
• 5.3.x users should upgrade to 5.3.32		
No other steps are necessary.		 https://r
		 https://s
Credit		https://g

Database / GitHub Reviewed / CVE-2024-22243

b vulnerable to Open Redirect or Server Side Request Forgery

GitHub Reviewed Published last week to the GitHub Advisory Database • Updated 8 hours ago

letails Dependabot alerts 29

	Affected versions	Patched versions	
ngframework:spring-web (Maven)	>= 6.1.0, < 6.1.4	6.1.4	
	>= 6.0.0, < 6.0.17	6.0.17	
	>= 5.3.0, < 5.3.32	5.3.32	
	<= 5.2.25.RELEASE		

s that use UriComponentsBuilder to parse an externally provided URL (e.g. through a query parameter) AND perform hecks on the host of the parsed URL may be vulnerable to a open redirect attack or to a SSRF attack if the URL is used ng validation checks.

es

- /nvd.nist.gov/vuln/detail/CVE-2024-22243
- /spring.io/security/cve-2024-22243
- /github.com/spring-projects/spring-framework/blob/main/spring-web/src/main/java/org/springframework/web/util/ nponentsBuilder.java



Read advisories? Call out errors



			🖒 Labels 15	中 Milestones	0 New pu	ll request
Author -	Label -	Projects	- Milestones	s - Reviews -	Assignee -	Sort -
						7 3
ability ×						[] 1
ability ×						[] 1
ability ×						[] 1
ability ×						Ç 1
ability 🗸						Ç 1
ability 🗸						ÇJ 1
ability ×						ÇJ 1

Want something we don't provide? Build it. If it's good they will come, we might help.



emmy cao 🌟 @emmycacao

dependabot just wants to help you with your dependencies and vulnerabilities 💁 👉 👈 @dependabot @github

...



7:48 AM · Jun 26, 2023 · 4,345 Views

https://twitter.com/emmycacao/status/1673342457407315971

What do we do? We're librarians 😂

We Can Do It!

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GitHub reviewed advisories

All reviewed					
Composer					
Erlang					
GitHub Actions					
Go					
Maven					
npm					
NuGet					
pip					
Pub					
RubyGems					
Rust					
Swift					
Unreviewed advisories					
All unreviewed					
কাঠ CC-BY-4.0 License					
🛱 Language support 🤅					

D About GitHub Advisory Database

	Q Search by CVE/GHSA ID, package, severity, ecosystem, credit			
14,490				
2,242	14,490 advisories	Severity -	CWE -	
22	Improper Control of Generation of Code ('Code Injection') in jai-ext Critical CVE-2022-24816 was published for it.geosolutions.jaiext.jiffle:jt-jiffle (Maven) 1 hour ago			
11 1,214	Pow Mnesia cache doesn't invalidate all expired keys on startup Moderate CVE-2023-42446 was published for pow (Erlang) 4 hours ago			
3,951 3,147	A remote command execution (RCE) vulnerability in the /api/runscript endpoint of FUXA (H CVE-2023-33831 was published for @frangoteam/fuxa (npm) yesterday	igh		
510 2,083	Vyper has incorrect re-entrancy lock when key is empty string Moderate CVE-2023-42441 was published for vyper (pip) yesterday			
7	Arbitrary File Overwrite in Eclipse JGit High CVE-2023-4759 was published for org.eclipse.jgit:org.eclipse.jgit (Maven) yesterday			
743 657	Cross-Site Request Forgery (CSRF) in usememos/memos High CVE-2023-5036 was published for github.com/usememos/memos (Go) 2 days ago			
29	Directus affected by VM2 sandbox escape vulnerability High GHSA-22rr-f3p8-5gf8 was published for directus (npm) 4 days ago			
197,394	Jetty's OpenId Revoked authentication allows one request Low CVE-2023-41900 was published for org.eclipse.jetty:jetty-openid (Maven) 4 days ago			
	LibreNMS Cross-site Scripting vulnerability Critical CVE-2023-4982 was published for librenms/librenms (Composer) 5 days ago			
Database	LibreNMS Cross-site Scripting vulnerability High CVE-2023-4981 was published for librenms/librenms (Composer) 5 days ago			



PRs welcome **CC-BY-4.0 licensed!**

We Can Do It!

GitHub Advisory Database

Contributions

There are two ways to contribute to the information provided in this repository.

From any individual advisory on github.com/advisories, click Suggest improvements for this vulnerability (shown below) to open an "Improve security advisory" form. Edit the information in the form and click Submit improvements to open a pull request with your proposed changes.

See something to contribute? Suggest improvements for this vulnerability

contribution guidelines.

RubyGems Rust Swift Unreviewed advisories All unreviewed 本 CC-BY-4.0 License Language support (i)

Alternatively, you can submit a pull request directly against a file in this repository. To do so, follow the







Questions?

We Can Do It!

Contributions

contribution guidelines.

Rust

조 CC-BY-4.0 License Language support (i)

About GitHub Advisory Database

https://github.com/github/advisory-database#contributions https://creativecommons.org/licenses/by/4.0/





Global API Want to use our data for your own tools?

Global security advisories

Use the REST API to view global security advisories.

List global security advisories $\ensuremath{\mathscr{O}}$

Works with <u>GitHub Apps</u>

Lists all global security advisories that match the specified parameters. If no other parameters are defined, the request will return only GitHub-reviewed advisories that are not malware.

By default, all responses will exclude advisories for malware, because malware are not standard vulnerabilities. To list advisories for malware, you must include the type parameter in your request, with the value malware. For more information about the different types of security advisories, see "About the GitHub Advisory database."

Code samples for "List global



Parameters for "List global security advisories"

https://docs.github.com/en/rest/security-advisories/global-advisories?apiVersion=2022-11-28

l security advisories"	
CLI	D
l.github+json" \ YOUR-TOKEN>" \ 2022-11-28" \ sories	



Repo AP Want to get at raw user provided data?

Repository security advisories

Use the REST API to view and manage repository security advisories.

list repository se	curity advisorie	s for an orga	anization 🖉
--------------------	------------------	---------------	-------------

Works with GitHub Apps

Lists repository security advisories for an organization.

To use this endpoint, you must be an owner or security manager for the organization, and you must use an access token with the repo scope or repository_advisories:write permission.

Parameters for "List repository security advisories for an organization"

Headers

accept string

Setting to application/vnd.github+json is recommended.

Path parameters

org string Required

The organization name. The name is not case sensitive.

Query parameters



Response



Code samples for "List repository security advisories for an organization"

"url": "https://api.github.com/repos/repo/a-package/security-advisories



https://docs.github.com/en/rest/security-advisories/repository-advisories?apiVersion=2022-11-28

Q

Private Vulnerability Reporting Want to not have 0 days dropped on you?

Configuring private vulnerability reporting for a repository

Owners and administrators of public repositories can allow security researchers to report vulnerabilities securely in the repository by enabling private vulnerability reporting.

Who can use this feature

Anyone with admin permissions to a public repository can enable and disable private vulnerability reporting for the repository.

About privately reporting a security vulnerability *2*

Security researchers often feel responsible for alerting users to a vulnerability that could be exploited. If there are no clear instructions about contacting maintainers of the repository containing the vulnerability, security researchers may have no other choice but to post about the vulnerability on social media, send direct messages to the maintainer, or even create public issues. This situation can potentially lead to a public disclosure of the vulnerability details.





https://docs.github.com/en/code-security/security-advisories/working-with-repository-security-advisories/configuring-private-vulnerability-reporting-for-a-repository

Dismissal Rules Want to fine tune what alerts you see?

Using alert rules to prioritize Dependabot alerts

You can use Dependabot alert rules to filter out false positive alerts or alerts you're not interested in.

Who can use this feature

People with write permissions can view Dependabot alert rules for the repository. People with with admin permissions to a repository, or the security manager role for the repository, can enable or disable Dependabot alert rules for the repository, as well as create custom alert rules.

Note: Dependabot alert rules are currently in beta and are subject to change.

https://docs.github.com/en/code-security/dependabot/dependabot-alerts/using-alert-rules-to-prioritize-dependabot-alerts

