Software Security Course

The CodeWeTrust's source code scanner

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CodeWeTrust Source Code Scanner

Overview of CodeWeTrust's c2m

Part 1

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CodeWeTrust Source Code Scanner

source code scanning key advantages

"BLIND" AUDIT SOURCE CODE ASSESSMENT WITHOUT CODE SHARING

EVALUATION OF PROPRIETARY AND 3RD PARTY CODE SOURCE CODE ANALYSIS + SOFTWARE COMPOSITION ANALYSIS + SECURITY PRODUCTIVITY

AUTOMATED SELF-SERVED CONSISTENT AUTO-GENERATED REPORTS SLIDES, DASH BOARDS, JIRA

LOW ADOPTION COST ON-PREM OR HOSTED, GET CODE FROM GITHUB, GITLAB, BITBUCKET, AZURE, LOCAL DISK SUPPORTS 99% OF THE USED TECH STACKS

WHITE-LABEL VERSION AVAILABLE ON ANNUAL ENTERPRISE PLANS ONLY

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C2m at a glance!

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TECH STACK programming and dev tools analysis

DEV TEAM productivity, alignment, perfor. ranking

CODE REVIEWS Defects, Risks, Hardcode tokens

SECURITY CWE, CVE, Sans 25/OWASP Vulnerabilities

SCA 3rd party lib version, security and licenses discovery

LICENSES COMPLIANCE

OSS license discovery and auto-risk classification

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c2m Automated Technical Due Diligence

RISK MITIGATION

Automated suggestions for Vulnerabilities elimination, Quality Improvement, License alignment, Libraries upgrade

COST SAVING

Align the dev team with the tech stack and the major risks discovered

GROWTH

Speed up the development reducing tech debt, upgrade tech stack & dev process, Monitor Quality/Risks through CI/CD integration

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Onboarding on CodeWeTrust's c2m

Part 2

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CODE Onboarding steps

- Join the CodeWeTrust's portal using your corporate email account. Personal email accounts (gmail.com, hotmail.co etc will be rejected(
- 2. CodeWetrust will upgrade your account license to "FULL ACCESS" upon notification.
- You could use the University Staging or you could download and install the app at your workstation (laptop, PC). Download Page+Specs : <u>Download c2m</u> <u>'Light' | Code We Trust</u>
- 4. Installation guide: <u>C2M- Quick User Guide -</u> <u>codewetrust</u>
- 5. Online manual:

https://c2m-codewetrust.gitbook.io/codewetrust/c2m -user-guide/user-guide-ver-6.0.0

create a	new accou	inc					Login
Phone Numi	per *				-	1	
+1 *	Phone Num	ber					
Email *							
Email							
Password *						5	
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Prerequisites for local installation

- 1. Docker engine (Install Docker Engine) with 10+ GB RAM and 20+ GB disk space for containers, x64 CPU.
- 2. <u>Deactivate the sleep mode</u>. This very important because when thepc/laptop enters on sleep mode the process is interrupt sharply.
- 3. The c2m application should be with Administrator privileges so to have access c:\users\appData, where the temporary results re stored.
- 4. Although the c2m application is carefully tested on Windows, Linux and MacOS, we suggest the installation on Linux systems.

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Getting started with c2m scanner

- 1. Login to portal: <u>https://univpiraus-security-sdlc.dd.codewetru</u> <u>st-api.com/</u>
- 2. Inspect the scorecards on dashboard page
- The screenshot on the left is shown that "springboot" is analysed and few more products are already scanned
- 4. Click on any of the scorecards





The product dashboard page shows all the products scanned so far.

You can add new product, view profile, change/ view settings, set quality benchmark and the import or export the files using blind audit.

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CODE TRUET Simple, Complete, Affordable		Products - Glossary		Add Product Add product Settings Sabs Ghani-
Products 55	Check a term defini	tion Set Qual Import/	Iity Benchmark QUALITY BENCHMA	ARK BLIND AUDIT V ADD PRODUCT
Q Search product	earch a product			Grid View
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• LIST ANKOYCED 421/0228 (102383 FM) Watercool: APP ■ *** ● <tr< td=""><td>• LAST ANALOYZED, 4/14/2020, 50550 PM ••• Infer ••• ½ ••• 100075 100075 100070 100075</td><td>0 LAST JANADOZED, 478/0220, 122/17944 </td><td>0 LAST ANNOYZES 3/25/2022 2-24:05 PM tensorflow 2 P</td><td>0 LAST ANALOZZÓ 2/25/2023 2/1521 PM CWT 1 P 1000000000000000000000000000000000000</td></tr<>	• LAST ANALOYZED, 4/14/2020, 50550 PM ••• Infer ••• ½ ••• 100075 100075 100070 100075	0 LAST JANADOZED, 478/0220, 122/17944	0 LAST ANNOYZES 3/25/2022 2-24:05 PM tensorflow 2 P	0 LAST ANALOZZÓ 2/25/2023 2/1521 PM CWT 1 P 1000000000000000000000000000000000000

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Support, References and readings

1. CodeWeTrust blog: CodeWeTrust Blog

2. CodeWeTrust Live demo:

Test Cases | Code We Trust

3. Support Email: support@codewetrust.com

 Slack : We have a Slack support channel : <u>CWT_UNIVP_SLACK</u>. Ask for invitation (support@codewetrust.com)

Test Cases

Using c2m "Light", we parsed ten of the fastest-growing open-source projects by contributors (https://octoverse.github.com/). The parsing times reflected in the table below have been achieved on a regular laptop (i7, 8GB RAM, Ubuntu 18.04).



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Search product	
© LAST ANALVZED: 6/6/2023, 10:57:25 AM	© LASTANALVZED-5/6/2022, 10:44:19 AM
P	p ♦ ≡ REPOS TICKETS LGC

The product scorecard



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Product analysis overview-security



1 0	99.2N		0		U		0		(0			C	/	0		9
Repository	÷ Q	Languages	Ŧ	Size, LOC 🔅	Date	٠	Parsing Time	C2	[1]	ß		<u></u>	0	2			
k8s dashboard		Go, TypeScript, Bourne Shell, Dockerfile, JavaScript		99194	5/14/2023, 4:2	.7:34 AM	0:09:02		•	•	•	•	•	•			

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Product analysis overview-quality



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Add a product

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Add Product

Users can add a new product to scan by adding the product name and providing a link to the Git repository. **History Scan** would allow the users to scan the repo along with its change

Add Product

history. Users can also change scan settings.

BitBucket Workspace GitLab User or Group Zip File Git Repository **GitHub Organisation** Enter product name * 29 0 6 Git GitHub GitLab Use Zip File Repositor rganisation Workspac Branch (leave empty for default) History Scan Users can add a new product to scan by adding the product name and providing a link to the Git repository. History Scan would allow the users to scan the repo along with its change history. Users can also change scan settings.

Users will add a new product using the version control links provided, i.e. Git, BitBucket, local folder, etc.

Add a new product

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Scan Process



Products - Glossary

JiraRestA	PI
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P https://github.com/SabaKashif/JiraRestAPI

Tech Stack Filtering	0
Code Risks	0
Static Code Analysis	
License Compliance	
Business Risk Analysis	

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Configure the scope of the analysis

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Historical Data & Development branch for a single repository



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Limit the scope of scanning

	Products	(?) Glossary			Scan Settings	(
6	y	0	V	₩		
	Git Repository	GitHub	Bitbucket	GitLab User or	Third-party code 💿	
		organisation	TTOINSPUCE	Group	Autogenerated code 💿	
Repository* —					Test code 💿	
https://githul	o.com/cosmos/	cosmos-sdk			Configuration files ③	~
Usemame CostasVoliot	isXO				Build scripts ①	
					Markup files 💿	
·····	be stored)				License Discovery	
Branch (leave	e empty for defa	ault)			Copyright/Email/URL/Author	
					Nomos Analysis	
History Sc	an				Monk Analysis	
an Days:					Keyword Analysis	
		•			Package Analysis	
an Points:					MIME Type	
				\sim	ECC Analysis	
					Software Heritage	

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Filter the selected repositories

Vou have not provided credentials, so private repositories are not included Vou have not provided credentials, so private repositories are not included Normas Image: State scanning Vou have not provided credentials, so private repositories are not included Image: State scanning Image: State scanning						кероз	atones	~
OSMOS Image: Source Source Compositions Image: Source Source Cosmos SDK module registry. Image: Source Cosmos SDK module registry.		Products ~	Glossary			You have	not provided credentials, so private reposit	tories are not included
Sort Situation Sort Situation Sort Situation Sort Situation Sort Situation Situation Sort Situation						All	← All	age
\$2 \$2 \$2 of 82 selected Situation Directory Situation Organization Situation Organization name or URL* Createneter Organization name or URL* Createneter Organization name or URL* Createneter Intro://github.com/cosmos Createneter Intro://github.com/cosmos Situation Username Organization same or URL* Start scanning It Start scanning It Start scanning It Start scanning It	osmos					Q Fir	id a repository	Name, Asc 👻
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Organization name or URL* https://github.com/cosmos epositories add.d: All repositories (a) Username Github access token (wont be stored) Start scanning It Create token It Organization name or URL* It		Git Repository	GitHub Organisation	Bitbucket Workspace	GitLab User or Group		academy-checkers-ui <mark>-</mark> TypeScript	903 Kb (Public) Updated: 5/19/2022
epositories add (f. All repositories (a) Username Github access token (won't be stored) Start scanning If Start scanning	Organization nam	e ar URL *		/	Create token i		advocates Cosmos Advocates	25 Kb Public
Username Go @ Apache Licen @ 31 ☆ 31 ₺ 31 Updated: 5/19/2022 Github access token (won't be stored) atlas 51322 kb (Public) Start scanning 1/1 Updated: 6/1/2022 It awesome 138 kb (Public) Collection of Cosmos related resources Updated: 6/9/2022	epositories add	d: All repositories	•				amino-js go-amino + GopherJS + TypeScript	5955 Kb (Public)
Github access token (won't be stored) An open source Cosmos SDK module registry. Vue @ Apache Licen @ 25 ☆ 25 ₱ 11 Updated: 6/1/2022 awesome Collection of Cosmos related resources @ Other @ 172 ☆ 172 ₱ 56 Updated: 6/9/2022	Username						● Go @ Apache Licen ④ 31 ☆ 31 ₽ atlas	31 Updated: 5/19/2022 51332 Kb (Public)
Start scanning 1/1 awesome 138 Kb Public © Other © 172 ☆ 172 ⊉ 56 Updated: 6/9/2022	Github acces	s token (won't b	e stored)				An open source Cosmos SDK module re Vue 🚇 Apache Licen 👁 25 🏠 25 🕻	gistry. 9 11 Updated: 6/1/2022
Q Other ● 172 ♀ 172 ♀ 56 Updated: 6/9/2022		Start s	scanning		tit		awesome Collection of Cosmos related resources	138 Kb (Public)
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Review analysis results

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Review tech stack analysis results



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Name 💠 Q	Commits 👙	Fixes ÷	Features \$	Languages	Lines Changed	Last Commit On 👙
Aleksey Plekhanov <plehanov.alex@gmail.com></plehanov.alex@gmail.com>	58	58	0	Java, XML, AsciiDoc, Text, C#	+30,078 -217,379	2023-04-25T15:16:37Z
Nikolay <nizhikov@apache.org></nizhikov@apache.org>	43	9	34	Java, Python	+11,240 -69,414	2023-04-07T15:45:01Z
Nikita Amelchev <nsamelchev@gmail.com></nsamelchev@gmail.com>	40	19	21	Java, AsciiDoc, XML, YAML	+6,358 -1,037	2023-04-28T20:17:32Z
Pavel Tupitsyn <ptupitsyn@apache.org></ptupitsyn@apache.org>	34	18	16	C#, Java, YAML, MSBuild script, Text, XML, PowerShell	+8,664 -614	2023-04-12T04:18:08Z
Maxim Muzafarov <maxmuzaf@gmail.com></maxmuzaf@gmail.com>	22	6	16	Java, XML, Bourne Shell, CSV, Scala, AsciiDoc	+2,996 -87,212	2022-08-31T19:09:41Z
Sergey Korotkov <serge.korotkov@gmail.com></serge.korotkov@gmail.com>	21	7	14	Python, Java, XML, Text	+1,419 -433	2023-04-22T19:12:55Z
ivan Daschinskiy ≤ivandasch@apache.org>	20	8	12	Java, YAML, C++, Python, XML, C#	+24,693 -17,507	2023-03-31T09:29:06Z
Anton Vinogradov <av@apache.org></av@apache.org>	16	3	13	Java, AsciiDoc, XML, YAML	+6,893 -2,675	2023-04-26T12:37:57Z
Roman Puchkovskiy <roman.puchkovskiy@gmail.com></roman.puchkovskiy@gmail.com>	15	2	13	Java	+1,828 -395	2022-12-06T07:15:11Z

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Sunburst charts

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Apache Ignite Fech Stack ⊘ Static Code An	alysis 8 Code Ris	ks ⊗ Secu	rity Analysis 🛞 🛛 License	s and Package:	s ⊗ Business	Risk 🥝	PT Executive CSV Execut	ive Details 🖓 Engine	ering 📢 SBOM 🚦
Charts Code quality details	Static Code Ana	lysis and Security	y Analysis are capable of creatin	g Jira Tickets . Severity	T Line	Language	🗘 🐨 Rule Description	JIRA	I Export
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ode Quality Details reports is here the user can generate the Jira ckets. by hitting the '+' sign in the	ignite/docs/_docs/c ode-snippet	Code Smell	Define a constant instead of d	Critical	30	Java	Duplicated string literals	+ Button to create the Jira Tickets.	i
a column.	ignite/docs/_docs/c ode-snippet	Code Smell	Define a constant instead of d	Critical	39	Java	Duplicated string literals	+	:
	ignite/docs/_docs/c ode-snippet	Bug	Container 'ignite- node' of Dep	Major	0	YAML	A program inside the container	+	:
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	ignite/docs/_docs/c	Bug	Container 'ignite-	Minor	0	YAML	Enforcing CPU limits prevents	+	:

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Review Package Analysis results

Charts
 Overview
 Details
 Packages
 overview
 Packages
 Time trends

Tech Stack 🥝 Static Code Analysis 🥝 Code Risks 🥝 Security Analysis 🥝 License Compliance 🛆

Name 💠 🔍	File Path 👙	Туре 🗄 🖫	License	Version 🗘	Latest Version 👙	Severity 🗘 🖫	Message	Allows saas: True
@babel/core	package.json	Npm	MIT	7.8.7 3/5/2020	7.17.9 4/6/2022	Major	Package version is more than 2 years old.	Allows – Distribution True
@babel/preset-env	package.json	Npm	MIT	7.1.0 9/17/2018	7.16.11 1/20/2022	Critical	Package version is more than 3 years old.	_ Allows Modification Tru
babel-loader	package.json	Npm	MIT	8.0.6 5/12/2019	8.2.4 3/22/2022	Major	Package version is more than 2 years old.	Allowed
babel-preset-es2015	package.json	Npm	MIT	6.24.1 4/7/2017	6.24.1 4/7/2017	Critical	Package version is more than 3 years old.	Undefined
danger	Gemfile	RubyGem	MIT	0.0.0 N/A	8.5.0 3/17/2022	Critical	Package is 8 major versions behind the latest.	Uncertain
danger-swiftlint	Gemfile	RubyGem	MIT	0.0.0 N/A	0.30.2 3/22/2022	None		
glob	package.json	Npm	ISC	7.1.6 11/6/2019	8.0.1 4/11/2022	Major	Package is 1 major version behind the latest. Pac	kage version is more than 2 years old.
lodash	package.json	Npm	MIT	4.17.21 2/20/2021	4.17.21 2/20/2021	Minor	Package version is more than 1 year old.	
page-metadata-parser	package.json	Npm	MPL-2.0	1.1.4 6/25/2019	1.1.4 6/25/2019	Major	Package version is more than 2 years old.	
readability	package.json	Npm		9.0.0 N/A	0.1.0 N/A	None		

Business Risk 🥝

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Define a new quality benchmark

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Quality Benchmarks

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c2m version 6.0+ provides a method to define your own Quality Thresholds. a) you can choose the default quality settings calculated averaging the results of a wide selection of OSS frameworks. b) You can modify the select settings c) You can choose the quality benchmark calculated analysing 20 of the Top50 most used OSS frameworks on GitHub Annual enterprise versions will provide, the functionality to implement, import and export your own benchmarks analysing user selected reference frameworks.

соок WE TRUST ple, Complete, Affordable	/	/				© ⑦ Producta - Glossary	
ettings 👞 🔍	Code Quality Set up the impact of code risks evaluation findings		Reset	Default	Open Source Top 20	Your Organization	Select industry V
em e Quality	Code Risks Threshold (per 10K LOC)	4		50	4		
rity Analysis se Compliance	Unit Test Coverage Threshold(%)	70%		80			
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	Vulnerabilities Threshold (per O	0.2		0.5			Security Analysis Adjust security risk calculation threshold
	Security Hotspots Threshold O(per 10K LOC)	1.2					
	License Compliance			Defect	0 0 T 00		Orders in America
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	Number of files with License	10		5			License Compliance

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Auto generated reports

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Extract the auto generated reports

CODE WE TRUST \otimes \odot 0 (Ŧ) 0 0 CODE WE TRUST Products - Glossary Costas Voliotis v Add product Settings Simple, Complete, Affordable Simple, Complete, Affordable - Back to products k8s dashboard / k8s dashboard Details Engineering ()SBOM Executive k8s dashboard Report Static Code Analysis 🔬 Code Risks ⊘ Security Analysis 🛞 Licenses and Tech Stack ⊘ isines Details . Vulnerable Packages Severity 11. Charts <> Overview Low Code structure Med EXCELLENT Bourne Shell: 0.234 K High 2 Top contributors 8 of 108 JSON: 0.474 K Vulnerable Packages make: 0.489 K Sass: 1.53 K Markdown: 1.75 K Go: 28.7 K YAML: 3.73 K HTML: 9.11 K P Aggregated View 0 = GO TYPESCRIPT BOURNE SHELL DOCKERFILE JAVASCRIPT REPO LOC 0 99.2K Yarn: 14.8 K

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Executive report layout

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Security Dashboard

Project K8s.dashboard

Client name BAR

Report date

Security



License Risk and Compliance







17 Outdated Packages88 Up-to-date Packages1 Multi-versioned Packages

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BLIND AUDIT

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"BLIND" AUDIT

The "Blind" Audit feature could be used

- on M&A's where the target company is not willing to share the code
- in large-scale software development where different teams use local copies of codebases or are unwilling to share a set of code repositories with the entire software development department.

In both cases the feature facilitates the sharing of source code assessment without code sharing.

The methodology consists of four steps:

- 1. The local team (or group of developers) installs the c2m version on personal computer or a local server and scan its codebase(s). The freemium version could be used, applying the "blind" audit feature on license
- 2. The local group outputs analysis results selectively, which means they can selectively export results for a subset of products/workspaces. The exported results are password protected.

3. Scan results are imported into the central organization's (or buyer's) c2m istallation (licensed version required)

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"Blind " Audit

Steps

- 1. Download the application from : <u>https://www.codewetrust.com/download</u>
- 2. Setup a folder preferably not on C: give it name and unzip the downloaded file on it
- 3. Secure the the docker engine is activated
- 4. After successful installation of the application add as first product the GIT repository : <u>https://github.com/cwt-test</u> and scan it
- 5. and export it as it shown below. Share it with the Auditor

Suggestions

if you scan the code from local repository it is suggested to split in logical units (front-end, back-end, tests etc) as much this is possible. Setup a different folder for each part, and scan it as a different product

Select the option subdirectories as repositories

You can kickoff the scanning of several folder without waiting for completion of parsing. The jobs will be pipelined. as shown on the screen shot on the right

Enter product name [:]



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"Blind"

steps 1-2

audit

CODE WE 8 Products - Glossary Add product Settings Costas Voliotis nple, Complete, Affordable Products 37 BLIND AUDIT Export Import ⊞)(⊟ Q Search product ignite-3 gatsby firefox-ios openhive-network 2 auxoncorp **⊘** File exported successfully Export × - File Name filename Name exampleExport.c2m Confirm Password 🖉 🎦 Profile.pdf 2m release 5.0.pn Choose Products to Export Select all 0 of 37 selected (0 LOC Total) After the user has scan its code and ≡ 2,110 K LOC Repositories selected the parts of the analysis, he Apache Calcite 0 Repositories ≡ 440 K LOC is willing to share. Apache Ignite Repositories ≡ 1,820 K LOC A password protected file with the Ara on 3 Repositories ≡ 5,540 K LOC extension .c2m is compile and CAP DANO

SWIFT C/C++ HEADER C JAVASCRIPT PYTHON

exeported. (ie "yourfilename.c2m"

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≡ 241 K LOC

Repositories

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"Blind"

3 and 4





The "consumer" received the results file through mail or file sharing and activates the import functionality

he has to provide teh correct password, wait for file loading 9it might take a while depends on the size of the file) and then after uploading completion has to select the "import"

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CodeWeTrust overview



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GITHUB

yarn

JAVASCRIPT.

TYPESCRIPT

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Jenkins

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Quality/Security scanner comparison matrix trustilio

FEATURE	Code WeTrust	<u>MEND</u> (White source)	Fossa	CAST	SNYK	Synopsis (Black Duck)	Synopsis (Coverity)	Sonar Source	Checkmarx	JetBrains Quodana
Standalone on-prem deployment Scanner+BI (Risk viewer)								\checkmark	\checkmark	\checkmark
Target audience	Executives Advisors Developers	Advisors Developers	Advisors Developers	Advisors	Developers Advisors	Advisors	Developers	Developers	Developers	Developers
Code reviews-Programming languages	25	0	0	15	0	0	22	30	18	7
Security (Software Composition Analysis) Programming Languages	ALL	ALL	ALL	ALL	ALL	ALL	22	0	18	7
Continuous Integration / Deployment	\checkmark	\checkmark						\checkmark	\checkmark	\checkmark
Source Code Quality Assessment	\checkmark			>				\checkmark		
Full Vulnerabilities assessment (CVE, CWE)										
"Blind" Audit - scanner		limited		limited				limited	limited	
"Blind" Audit - Bl										
Licence Regulations Compliance Assessment				\checkmark		\checkmark				





WE DO APPRECIATE YOUR TIME!

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