

CNCF TAG-Security Hexa Policy Orchestration self assessment

Metadata

Here is some basic information on the Hexa Policy Orchestration project:

Software	https://github.com/hexa-org/policy-orchestrator - Hexa main repo https://github.com/hexa-org/policy - IDQL policy format https://hexaorchestration.org/ - project web site
Security Provider	Yes
Languages	GoLang
SBOM	See Appendix B for the latest SBOM report.

Security links

Provide the list of links to existing security documentation for the project. You may use the table below as an example:

Doc	url
Security file	https://github.com/hexa-org/policy-orchestrator/blob/main/SECURITY.md

Overview

Hexa Policy Orchestration makes managing distributed identity and access across multiple clouds and across the stack consistent, secure and scalable. Hexa translates and orchestrates Identity Query Language (IDQL) policies into the native policies for your application, platform, data, and network systems to unify access policy management.

Background

Multi-cloud and hybrid adoption create new challenges with identity fragmentation for enterprises. As organizations move to the cloud, they pick up new identity silos that come with each cloud platform. Due to technical and organizational reasons, it is impossible to consolidate identity into a single identity system. Consequently, multi-cloud now means multi-identity.

Identity is fragmented across multiple clouds and across the technology stack. This makes it difficult to manage access and to understand who has access to applications and data. Further, this fragmentation introduces security risk from complexity and inconsistency. Organizations need to provide zero trust, identity-based access but lack a way to align identity and access across the stack.

Goal

Hexa Policy Orchestration makes managing distributed identity and access across multiple clouds and across the stack consistent, secure and scalable. Hexa Policy Orchestration is open-source software that manages access policy for applications and data running on multiple clouds and across your tech stack. Hexa translates and orchestrates Identity Query Language (IDQL) policies into the native policies for your application, platform, data, and network systems to unify access policy management.

IDQL is a new Security Policy format that defines access control policies in a declarative way. IDQL policies are distributed and orchestrated, via Hexa, across heterogeneous systems at the application, platform, data, and network planes. Use IDQL to abstract policy from the underlying access control system; (e.g. AWS Identity, GCP BeyondCorp Identity, Snowflake, Versa Networks, F5 Networks Volterra, Nginx and others).

Non-goals

Hexa orchestration does not replace the runtime access decision making or enforcement processes of any target system/platform that it integrates with.

Self-assessment use

This self-assessment is created by the Hexa Policy Orchestration team to perform an internal analysis of the project's security. It is not intended to provide a security audit of Hexa Policy Orchestration, or function as an independent assessment or attestation of Hexa Policy Orchestration's security health.

This document serves to provide Hexa Policy Orchestration users with an initial understanding of Hexa Policy Orchestration's security, where to find existing security documentation, Hexa Policy Orchestration plans for security, and general overview of Hexa Policy Orchestration security practices, both for development of Hexa Policy Orchestration as well as security of Hexa Policy Orchestration.

This document provides the CNCF TAG-Security with an initial understanding of Hexa Policy Orchestration to assist in a joint-review, necessary for projects under incubation. Taken together, this document and the joint-review serve as a cornerstone for if and when Hexa Policy Orchestration seeks graduation and is preparing for a security audit.

Security functions and features

Critical

- The critical security component of the Hexa Policy Orchestration project is the Hexa Orchestrator. Hexa Orchestrator is the internal API gateway through which policy provisioning and retrieval takes place. Requests from the demonstration admin application (Hexa-Admin) and other container clients are secured using [Hawk](#) which implements a form of [digest message authentication](#).
 - *Note:* The credentials used within the repository are for testing. Please create new credentials for your test environment.

In the current implementation, HAWK verifies that the request URI used by the client matches the configured request URI. You will need to ensure Hexa-Admin and Hexa-Orchestrator use the same domain and port numbers or requests will fail.

When deployed in a container framework such as Kubernetes, the Hex-Orchestration API is not normally exposed for external ingress.

Eventually the orchestrator will be expanded to support common API authentication methods such as JWT tokens, PATs, and sender constrained tokens such as [OAuth DPOP](#).

Security Relevant

- The Hexa Administration application (Hexa-Admin) is a web based graphical interface used to administer Hexa and IDQL Policy. Hexa-Admin is included with the project as an example system administration user interface and is not intended to be used in a production environment.

When deployed in a shared environment (outside of development) Hexa-Admin must be deployed behind a secured web proxy in order to authenticate user sessions and enforce RBAC policy as Hexa-Admin does not implement its own access control system.

The long-term intent is to leverage authentication providers (e.g. OpenID Connect), establish browser sessions, and enforce access management using IDQL.

- Hexa currently uses PostgreSQL to store provider service account credentials. Please ensure your PostgreSQL instance and client connection is secure. More information can be found below -
 - [encryption-options](#)
 - [ssl-tcp](#)

Project compliance

- The Hexa Policy Orchestration project is not currently in compliance with industry standards/conventions, such as PCI-DSS, COBIT, ISO, GDPR, etc.

Secure development practices

Development Pipeline

- CodeQL is used to analyze code for security vulnerabilities and CodeQL results are shown in the status banner within the readme file (sample below)
- Trivy is used to scan containers for vulnerabilities in the CI/CD pipeline

- Security dashboard in the readme file lists the status of the latest build:



Hexa Policy Orchestrator



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- **Communication Channels.**
 - Internal: The team communicates via slack channel, GitHub backlog and zoom meetings.
 - Inbound: Users can contact the team via posting a GitHub issue or using the contact form on hexaorchestration.org
 - Outbound: Primary outbound channels are slack and shared google doc that contains meeting minutes
- **Ecosystem.** Cloud-first and cloud-native business and infrastructure systems require cloud-native ways to address identity and policy in order to meet the needs of fast-moving, modern enterprises. Hexa addresses this need to orchestrate identity and access policy across a wide range of disparate environments - an area that is not being met by any other project today.

In addition, the Hexa project utilizes software from a number of CNCF projects to support its infrastructure and ecosystem:

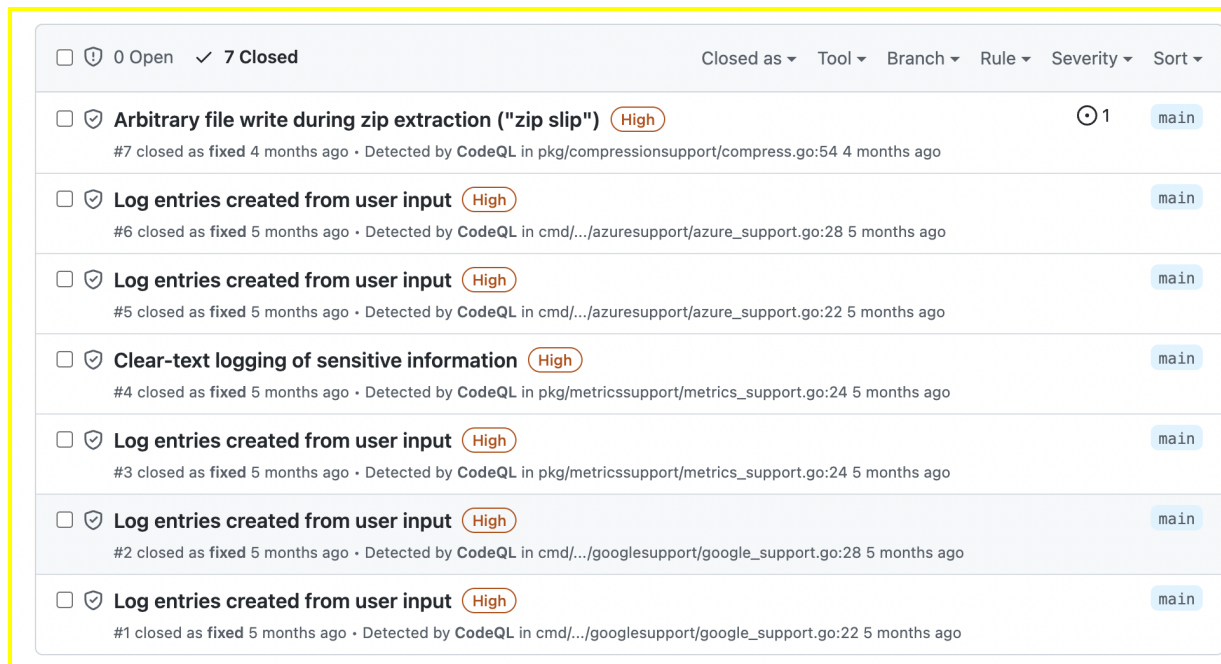
- [Kubernetes](#) clusters to run various Hexa components: administration UI, orchestrator and demonstration application
- [Open Policy Agent](#) is used for runtime access control within the demonstration application (instructions for installing/building demo app here: <https://github.com/hexa-org/policy-orchestrator/blob/main/README.md>)
- [Harbor](#) provides the container registry for all the Hexa components
- [Contour](#) is used as the ingress service
- [Cert Manager](#) handles setting up TLS certificates for communication security between Hexa components

Security issue resolution

- Vulnerability Response Process: We request that individuals report any security bugs privately to the maintainers listed in the [MAINTAINERS](#) file. We will fix the issue and coordinate a release date, acknowledging your effort. An email describing the vulnerability and the fix will be sent to all users on the project's contact list.

Appendix A

- **Known Issues Over Time.** Given the early stage of the Hexa Policy Orchestration project, we have experienced only a few vulnerabilities.
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 - Some of these were known at the time of commit (log entries for example) although the zip slip was not known and was caught by CodeQL upon commit.



The screenshot shows a GitHub Security Issues page with the following details:

- 0 Open, 7 Closed
- Filters: Closed as, Tool, Branch, Rule, Severity, Sort
- Issues listed (all High severity):
 - Arbitrary file write during zip extraction ("zip slip") (High) - #7 closed as fixed 4 months ago - Detected by CodeQL in pkg/compression/support/compress.go:54 4 months ago
 - Log entries created from user input (High) - #6 closed as fixed 5 months ago - Detected by CodeQL in cmd/.../azuresupport/azure_support.go:28 5 months ago
 - Log entries created from user input (High) - #5 closed as fixed 5 months ago - Detected by CodeQL in cmd/.../azuresupport/azure_support.go:22 5 months ago
 - Clear-text logging of sensitive information (High) - #4 closed as fixed 5 months ago - Detected by CodeQL in pkg/metricssupport/metrics_support.go:24 5 months ago
 - Log entries created from user input (High) - #3 closed as fixed 5 months ago - Detected by CodeQL in pkg/metricssupport/metrics_support.go:24 5 months ago
 - Log entries created from user input (High) - #2 closed as fixed 5 months ago - Detected by CodeQL in cmd/.../googlesupport/google_support.go:28 5 months ago
 - Log entries created from user input (High) - #1 closed as fixed 5 months ago - Detected by CodeQL in cmd/.../googlesupport/google_support.go:22 5 months ago

- **CII Best Practices.** Due to the early stage of the Hexa Policy Orchestration project, we have not yet determined when we will apply for CII Best Practice compliance.
- **Case Studies:**
 - Example 1, Managing consistent access policy across multiple cloud platforms. An organization runs its applications on 3 different cloud

platforms and access to these applications is managed by multiple identity management systems that are 'built into' the respective cloud platform (aka bespoke identity systems). Each of the identity systems uses its own proprietary way to manage application access in the form of access policies. An example application access policy, "The Inventory Application can be only accessed by employees in the supply chain department." This policy is represented in bespoke identity systems according to the proprietary structure of its data model and architecture etc. Managing access to these applications requires setting policy in 3 different identity systems. Auditing access policies requires checking policy in 3 different systems. This is very complex, expensive, error-prone, and subject to drift and security vulnerability. The organization wants to manage access to the applications in a consistent, more secure way, regardless of which cloud platform is used, and to reduce manual efforts required to manage policy in multiple places. Using Hexa Policy Orchestration, policies for all 3 platforms are configured in a single place, automating policy management tasks and streamlining audit reporting. The Primary Policy Management Point (PPMP) is used to configure the access policy, "The Inventory Application can be only accessed by employees in the supply chain department." using a declarative syntax. This policy, created in the PPMP, is then securely distributed to the bespoke identity systems through the Hexa Orchestration module. The Hexa Orchestration module receives the policy, validates the version and authenticity, and then maps the IDQL policy to the proprietary policy of the bespoke identity system. Finally, the Hexa Orchestration module implements the policy in the bespoke identity system through its API.

- Example 2, Managing consistent identity and user access policy across different layers of the technology stack. An organization builds its Web applications using a microservices architecture, built using a 'service mesh' technology. Access to the Web application is managed by an Application Identity system. Access and authorization to the microservices that make up the application is managed by a Service Identity system enforced as a proxy in front of the service mesh and microservices platform. Managing access policies for human and service identities is done using 2 separate methods. The organization wants to allow access to the Inventory Application, and the related web services by employees only. The organization wants to manage access policies in one place and have them enforced in multiple systems. Using Hexa Policy Orchestration, policies for the 2 identity systems are configured in a single place, automating policy management tasks and streamlining audit reporting. The Primary Policy Management Point (PPMP) is used to configure the access policy, "The Inventory Application can be only accessed by employees." using a

declarative syntax. This policy, created in the PPMP, is then securely distributed to the bespoke identity systems through a Hexa Orchestration module. The Hexa Orchestration module receives the policy, validates the version and authenticity, and then maps the IDQL policy to the proprietary policy of the bespoke identity system.

- **Related Projects / Vendors.** When someone hears about Hexa Policy Orchestration for the first time, they often ask, “how does it compare to Open Policy Agent (OPA)?” The two projects are very complementary in that OPA is a runtime authorization (PDP- policy decision point) service for cloud native systems, whereas Hexa is an administrative process (PMP - policy management point) for orchestrating policies across cloud platforms and applications.

Appendix B

SBOM report from July 21

SPDXVersion: SPDX-2.2

DataLicense: CC0-1.0

SPDXID: SPDXRef-DOCUMENT

DocumentName: github.com/hexa-org/policy-orchestrator

DocumentNamespace:

<http://spdx.org/spdxpackages/github.com/hexa-org/policy-orchestrator-5dfaa023-4744-4de4-88de-85e0d5d8adfb>

Creator: Tool: spdx-sbom-generator-v0.0.10

Created: 2022-07-21T22:22:24Z

Package representing the github.com/hexa-org/policy-orchestrator

PackageName: github.com/hexa-org/policy-orchestrator

SPDXID: SPDXRef-Package-github.com.hexa-org.policy-orchestrator

PackageVersion: 205b03b

PackageSupplier: Organization: github.com/hexa-org/policy-orchestrator

PackageDownloadLocation: git+https://github.com/hexa-org/policy-orchestrator.git

FilesAnalyzed: false

PackageChecksum: SHA256:

bfae034a0b2f5d741a830e352bb1489e65d867bf6e2faf877df407e7892e02

PackageHomePage: <https://github.com/hexa-org/policy-orchestrator>

PackageLicenseConcluded: NOASSERTION

PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship: SPDXRef-DOCUMENT DESCRIBES
SPDXRef-Package-github.com.hexa-org.policy-orchestrator

Relationship: SPDXRef-Package-github.com.hexa-org.policy-orchestrator DEPENDS_ON
SPDXRef-Package-github.com.prometheus.common-v0.32.1

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PackageDownloadLocation: <https://github.com/gorilla/mux/releases/tag/v1.8.0>

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PackageHomePage: <https://github.com/gorilla/mux>

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PackageCopyrightText: NOASSERTION

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PackageComment: NOASSERTION

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PackageName: github.com/hiyosi/hawk

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PackageVersion: v1.0.0

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PackageDownloadLocation: <https://github.com/hiyosi/hawk/releases/tag/v1.0.0>

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PackageHomePage: <https://github.com/hiyosi/hawk>

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PackageComment: NOASSERTION

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PackageVersion: v2.1.2
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PackageCopyrightText: NOASSERTION
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Package representing the google.golang.org/protobuf

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SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb

Package representing the github.com/golang/protobuf

PackageName: github.com/golang/protobuf
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PackageVersion: v1.5.2
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PackageHomePage: <https://github.com/golang/protobuf>
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Package representing the github.com/prometheus/client_model

PackageName: github.com/prometheus/client_model
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PackageVersion: v0.2.0
PackageSupplier: Organization: github.com/prometheus/client_model
PackageDownloadLocation: https://github.com/prometheus/client_model/releases/tag/v0.2.0
FilesAnalyzed: false
PackageChecksum: SHA256:
17e3e1fcf5e44f72941d48cf1158a4ce39bc17bda593d5cbec5483cc5fcb50da

PackageHomePage: https://github.com/prometheus/client_model
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.prometheus.client-model-v0.2.0 DEPENDS_ON
SPDXRef-Package-github.com.golang.protobuf-v1.5.2

Package representing the github.com/prometheus/common

PackageName: github.com/prometheus/common
SPDXID: SPDXRef-Package-github.com.prometheus.common-v0.32.1
PackageVersion: v0.32.1
PackageSupplier: Organization: github.com/prometheus/common
PackageDownloadLocation: <https://github.com/prometheus/common/releases/tag/v0.32.1>
FilesAnalyzed: false
PackageChecksum: SHA256:
f957df67fb332725960f0b2f5b4abe870f0ee81925396deafd2997b89ad0ff12
PackageHomePage: <https://github.com/prometheus/common>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-github.com.golang.protobuf-v1.5.2
Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-github.com.matttproud.golang-protobuf-extensions-v1.0.1
Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-github.com.prometheus.client-model-v0.2.0
Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-golang.org.x.oauth2-v0.0.0-20211104180415-d3ed0bb246c8
Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c
Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-github.com.prometheus.procfs-v0.7.3
Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1
Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd

Relationship: SPDXRef-Package-github.com.prometheus.common-v0.32.1 DEPENDS_ON
SPDXRef-Package-github.com.beorn7.perks-v1.0.1

Package representing the github.com/prometheus/client_golang

PackageName: github.com/prometheus/client_golang
SPDXID: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1
PackageVersion: v1.12.1
PackageSupplier: Organization: github.com/prometheus/client_golang
PackageDownloadLocation: https://github.com/prometheus/client_golang/releases/tag/v1.12.1
FilesAnalyzed: false
PackageChecksum: SHA256:
77c737eb2c9c13ebc9563ab78250e6b068abb7d1c97beba077dd51187f28fe7e
PackageHomePage: https://github.com/prometheus/client_golang
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-github.com.stretchr.testify-v1.7.0
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-github.com.beorn7.perks-v1.0.1
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-github.com.prometheus.common-v0.32.1
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-golang.org.x.text-v0.3.7
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-google.golang.org.protobuf-v1.27.1
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-github.com.cespare.xxhash.v2-v2.1.2
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-github.com.golang.protobuf-v1.5.2
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-github.com.prometheus.client-model-v0.2.0
Relationship: SPDXRef-Package-github.com.prometheus.client-golang-v1.12.1 DEPENDS_ON
SPDXRef-Package-github.com.prometheus.procfsv0.7.3

Package representing the github.com/matttproud/golang_protobuf_extensions

PackageName: github.com/matttproud/golang_protobuf_extensions

SPDXID: SPDXRef-Package-github.com.matttproud.golang-protobuf-extensions-v1.0.1
PackageVersion: v1.0.1
PackageSupplier: Organization: github.com/matttproud/golang_protobuf_extensions
PackageDownloadLocation:
https://github.com/matttproud/golang_protobuf_extensions/releases/tag/v1.0.1
FilesAnalyzed: false
PackageChecksum: SHA256:
e07c3a6c74b6ef99755933d950ed1f47600ad73c41e86611322369a3cbeb2831
PackageHomePage: https://github.com/matttproud/golang_protobuf_extensions
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/prometheus/procfs

PackageName: github.com/prometheus/procfs
SPDXID: SPDXRef-Package-github.com.prometheus.procfs-v0.7.3
PackageVersion: v0.7.3
PackageSupplier: Organization: github.com/prometheus/procfs
PackageDownloadLocation: <https://github.com/prometheus/procfs/releases/tag/v0.7.3>
FilesAnalyzed: false
PackageChecksum: SHA256:
382ebf259d404844df801612b933e808b11b865b221665cd4da8fcf610934246
PackageHomePage: <https://github.com/prometheus/procfs>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.prometheus.procfs-v0.7.3 DEPENDS_ON
SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c

Package representing the golang.org/x/sys

PackageName: golang.org/x/sys
SPDXID: SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c
PackageVersion: v0.0.0-20220222200937-f2425489ef4c
PackageSupplier: Organization: golang.org/x/sys
PackageDownloadLocation: <https://golang.org/x/sys>
FilesAnalyzed: false

PackageChecksum: SHA256:
d3154e94a2307a1637d84ca4486c3144bd9cd53a41087978fcc58a1068f0fc71
PackageHomePage: <https://golang.org/x/sys>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/gorilla/securecookie

PackageName: github.com/gorilla/securecookie
SPDXID: SPDXRef-Package-github.com/gorilla/securecookie-v1.1.1
PackageVersion: v1.1.1
PackageSupplier: Organization: github.com/gorilla/securecookie
PackageDownloadLocation: <https://github.com/gorilla/securecookie/releases/tag/v1.1.1>
FilesAnalyzed: false
PackageChecksum: SHA256:
4b0b1edd771c6a8cc408ec60278f0a43dd2f24bfe76738465614e9d7c15a9ebe
PackageHomePage: <https://github.com/gorilla/securecookie>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/gorilla/sessions

PackageName: github.com/gorilla/sessions
SPDXID: SPDXRef-Package-github.com/gorilla/sessions-v1.2.1
PackageVersion: v1.2.1
PackageSupplier: Organization: github.com/gorilla/sessions
PackageDownloadLocation: <https://github.com/gorilla/sessions/releases/tag/v1.2.1>
FilesAnalyzed: false
PackageChecksum: SHA256:
25d9b79d34d65b2629aa836f9e76910200821bc55ead2961c015aa90f2e34eb4
PackageHomePage: <https://github.com/gorilla/sessions>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.gorilla.sessions-v1.2.1 DEPENDS_ON
SPDXRef-Package-github.com.gorilla.securecookie-v1.1.1

Package representing the github.com/golang-jwt/jwt

PackageName: github.com/golang-jwt/jwt
SPDXID: SPDXRef-Package-github.com.golang-jwt.jwt-v3.2.2+incompatible
PackageVersion: v3.2.2+incompatible
PackageSupplier: Organization: github.com/golang-jwt/jwt
PackageDownloadLocation: <https://github.com/golang-jwt/jwt/releases/tag/v3.2.2+incompatible>
FilesAnalyzed: false
PackageChecksum: SHA256:
d92fea9d68809ec414d8a07ed83f2f0fe7145b44e6d80024572b4e3ba8dbb7a6
PackageHomePage: <https://github.com/golang-jwt/jwt>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/davecgh/go-spew

PackageName: github.com/davecgh/go-spew
SPDXID: SPDXRef-Package-github.com.davecgh.go-spew-v1.1.1
PackageVersion: v1.1.1
PackageSupplier: Organization: github.com/davecgh/go-spew
PackageDownloadLocation: <https://github.com/davecgh/go-spew/releases/tag/v1.1.1>
FilesAnalyzed: false
PackageChecksum: SHA256:
7018bf26ec016d9ce059137b272541b173f90a03d9d6e20e8f33e3a2bdd46c04
PackageHomePage: <https://github.com/davecgh/go-spew>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/pmezard/go-difflib

PackageName: github.com/pmezard/go-difflib
SPDXID: SPDXRef-Package-github.com.pmezard.go-difflib-v1.0.0
PackageVersion: v1.0.0
PackageSupplier: Organization: github.com/pmezard/go-difflib
PackageDownloadLocation: <https://github.com/pmezard/go-difflib/releases/tag/v1.0.0>

FilesAnalyzed: false
PackageChecksum: SHA256:
e34f32c28f9106b5e599f18cc4570483d2a43597aed00b604574850c7715c659
PackageHomePage: <https://github.com/pmezard/go-difflib>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/stretchr/objx

PackageName: github.com/stretchr/objx
SPDXID: SPDXRef-Package-github.com/stretchr.objx-v0.1.1
PackageVersion: v0.1.1
PackageSupplier: Organization: github.com/stretchr/objx
PackageDownloadLocation: <https://github.com/stretchr/objx/releases/tag/v0.1.1>
FilesAnalyzed: false
PackageChecksum: SHA256:
c45f767baf54527990a908b6f8e581ee157eb991761dbc0185235c8434877969
PackageHomePage: <https://github.com/stretchr/objx>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the gopkg.in/yaml.v3

PackageName: gopkg.in/yaml.v3
SPDXID: SPDXRef-Package-gopkg.in.yaml.v3-v3.0.0-20210107192922-496545a6307b
PackageVersion: v3.0.0-20210107192922-496545a6307b
PackageSupplier: Organization: gopkg.in/yaml.v3
PackageDownloadLocation: <https://gopkg.in/yaml.v3>
FilesAnalyzed: false
PackageChecksum: SHA256:
2db5a1b0d016e014d6b25a1a34f972b998f02d9dd10a5af220560182471e4f51
PackageHomePage: <https://gopkg.in/yaml.v3>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/stretchchr/testify

PackageName: github.com/stretchchr/testify
SPDXID: SPDXRef-Package-github.com.stretchchr.testify-v1.7.0
PackageVersion: v1.7.0
PackageSupplier: Organization: github.com/stretchchr/testify
PackageDownloadLocation: <https://github.com/stretchchr/testify/releases/tag/v1.7.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
7390f9132b4b78e6c6cd5808be386275eff06c9410b04f82edce8ee4b17e10fc
PackageHomePage: <https://github.com/stretchchr/testify>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.stretchchr.testify-v1.7.0 DEPENDS_ON
SPDXRef-Package-github.com.davecgh.go-spew-v1.1.1
Relationship: SPDXRef-Package-github.com.stretchchr.testify-v1.7.0 DEPENDS_ON
SPDXRef-Package-github.com.pmezard.go-difflib-v1.0.0
Relationship: SPDXRef-Package-github.com.stretchchr.testify-v1.7.0 DEPENDS_ON
SPDXRef-Package-github.com.stretchchr.objx-v0.1.1
Relationship: SPDXRef-Package-github.com.stretchchr.testify-v1.7.0 DEPENDS_ON
SPDXRef-Package-gopkg.in.yaml.v3.v3.0.0-20210107192922-496545a6307b

Package representing the github.com/lib/pq

PackageName: github.com/lib/pq
SPDXID: SPDXRef-Package-github.com.lib.pq-v1.10.4
PackageVersion: v1.10.4
PackageSupplier: Organization: github.com/lib/pq
PackageDownloadLocation: <https://github.com/lib/pq/releases/tag/v1.10.4>
FilesAnalyzed: false
PackageChecksum: SHA256:
489fa1d8cf96efe28d4814765252bc2a7000681023580c3a872867dc6c0024e8
PackageHomePage: <https://github.com/lib/pq>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/go-playground/locales

PackageName: github.com/go-playground/locales
SPDXID: SPDXRef-Package-github.com.go-playground.locales-v0.14.0
PackageVersion: v0.14.0
PackageSupplier: Organization: github.com/go-playground/locales
PackageDownloadLocation: <https://github.com/go-playground/locales/releases/tag/v0.14.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
b484dd1cde2dbd40778f26bac56164ef6f8452ce9a42723e616b6e3448b4c2ba
PackageHomePage: <https://github.com/go-playground/locales>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.go-playground.locales-v0.14.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.text-v0.3.7

Package representing the github.com/go-playground/universal-translator

PackageName: github.com/go-playground/universal-translator
SPDXID: SPDXRef-Package-github.com.go-playground.universal-translator-v0.18.0
PackageVersion: v0.18.0
PackageSupplier: Organization: github.com/go-playground/universal-translator
PackageDownloadLocation:
<https://github.com/go-playground/universal-translator/releases/tag/v0.18.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
7aa0182b872e20ef8034b8334088d9c2d9b85da0e94ec8971c5b081c1594f134
PackageHomePage: <https://github.com/go-playground/universal-translator>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.go-playground.universal-translator-v0.18.0
DEPENDS_ON SPDXRef-Package-github.com.go-playground.locales-v0.14.0

Package representing the github.com/leodido/go-urn

PackageName: github.com/leodido/go-urn
SPDXID: SPDXRef-Package-github.com.leodido.go-urn-v1.2.1

PackageVersion: v1.2.1
PackageSupplier: Organization: github.com/leodido/go-urn
PackageDownloadLocation: https://github.com/leodido/go-urn/releases/tag/v1.2.1
FilesAnalyzed: false
PackageChecksum: SHA256:
7f4386cbd0b1892129e9e61fda94318f78b906ae6a8c0262512ca70cac543f35
PackageHomePage: https://github.com/leodido/go-urn
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.leodido.go-urn-v1.2.1 DEPENDS_ON
SPDXRef-Package-github.com.stretchr.testify-v1.7.0

Package representing the golang.org/x/crypto

PackageName: golang.org/x/crypto
SPDXID: SPDXRef-Package-golang.org.x.crypto-v0.0.0-20211215153901-e495a2d5b3d3
PackageVersion: v0.0.0-20211215153901-e495a2d5b3d3
PackageSupplier: Organization: golang.org/x/crypto
PackageDownloadLocation: https://golang.org/x/crypto
FilesAnalyzed: false
PackageChecksum: SHA256:
df37d623d6ae67a3121c774e2e7d534c1027dc7294ffcf463057b0405e96c3b2
PackageHomePage: https://golang.org/x/crypto
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-golang.org.x.crypto-v0.0.0-20211215153901-e495a2d5b3d3
DEPENDS_ON SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c
Relationship: SPDXRef-Package-golang.org.x.crypto-v0.0.0-20211215153901-e495a2d5b3d3
DEPENDS_ON SPDXRef-Package-golang.org.x.text-v0.3.7
Relationship: SPDXRef-Package-golang.org.x.crypto-v0.0.0-20211215153901-e495a2d5b3d3
DEPENDS_ON SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd

Package representing the golang.org/x/text

PackageName: golang.org/x/text
SPDXID: SPDXRef-Package-golang.org.x.text-v0.3.7

PackageVersion: v0.3.7
PackageSupplier: Organization: golang.org/x/text
PackageDownloadLocation: https://golang.org/x/text
FilesAnalyzed: false
PackageChecksum: SHA256:
d7ac29e2f6ec78fb9d7720292fc86d02a09131c906b92f8e6a65ae4ac37bd08f
PackageHomePage: https://golang.org/x/text
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/go-playground/validator/v10

PackageName: github.com/go-playground/validator/v10
SPDXID: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
PackageVersion: v10.11.0
PackageSupplier: Organization: github.com/go-playground/validator/v10
PackageDownloadLocation:
https://github.com/go-playground/validator/v10/releases/tag/v10.11.0
FilesAnalyzed: false
PackageChecksum: SHA256:
1ca984f1550beec4923a65cc9cb237a8ec533ded0dee69c08d5c86b54a29f4dd
PackageHomePage: https://github.com/go-playground/validator/v10
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON SPDXRef-Package-golang.org.x.text-v0.3.7
Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON SPDXRef-Package-gopkg.in.yaml.v3-v3.0.0-20210107192922-496545a6307b
Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON SPDXRef-Package-github.com.davecgh.go-spew-v1.1.1
Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON SPDXRef-Package-github.com.go-playground.universal-translator-v0.18.0
Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON SPDXRef-Package-github.com.stretchr.testify-v1.7.0
Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON
SPDXRef-Package-golang.org.x.crypto-v0.0.0-20211215153901-e495a2d5b3d3

Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c
Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON SPDXRef-Package-github.com.go-playground.locales-v0.14.0
Relationship: SPDXRef-Package-github.com.go-playground.validator.v10-v10.11.0
DEPENDS_ON SPDXRef-Package-github.com.leodido.go-urn-v1.2.1

Package representing the github.com/aws/aws-sdk-go-v2

PackageName: github.com/aws/aws-sdk-go-v2
SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0
PackageVersion: v1.14.0
PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2
PackageDownloadLocation: <https://github.com/aws/aws-sdk-go-v2/releases/tag/v1.14.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
a84254f0b4eb7b805c413e9c87197145080471fad94f12dc17e130c3e6d90a65
PackageHomePage: <https://github.com/aws/aws-sdk-go-v2>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0 DEPENDS_ON
SPDXRef-Package-github.com.aws.smithy-go-v1.11.0

Package representing the github.com/aws/smithy-go

PackageName: github.com/aws/smithy-go
SPDXID: SPDXRef-Package-github.com.aws.smithy-go-v1.11.0
PackageVersion: v1.11.0
PackageSupplier: Organization: github.com/aws/smithy-go
PackageDownloadLocation: <https://github.com/aws/smithy-go/releases/tag/v1.11.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
e2dc7dd9bf0b03de28e51704e5553cd507ade6a88d71e60c1b1183c581ae4551
PackageHomePage: <https://github.com/aws/smithy-go>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Package representing the github.com/aws/aws-sdk-go-v2/credentials

PackageName: github.com/aws/aws-sdk-go-v2/credentials
SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.credentials-v1.9.0
PackageVersion: v1.9.0
PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/credentials
PackageDownloadLocation:
<https://github.com/aws/aws-sdk-go-v2/credentials/releases/tag/v1.9.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
00388630d3026cf683a487e3b5b725e0be3cdb746a2b76b8c4eba170eb645301
PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/credentials>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.credentials-v1.9.0
DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sts-v1.15.0
Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.credentials-v1.9.0
DEPENDS_ON SPDXRef-Package-github.com.aws.smithy-go-v1.11.0
Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.credentials-v1.9.0
DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0
Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.credentials-v1.9.0
DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2.feature.ec2.imds-v1.11.0
Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.credentials-v1.9.0
DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sso-v1.10.0

Package representing the github.com/aws/aws-sdk-go-v2/feature/ec2/imds

PackageName: github.com/aws/aws-sdk-go-v2/feature/ec2/imds
SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.feature.ec2.imds-v1.11.0
PackageVersion: v1.11.0
PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/feature/ec2/imds
PackageDownloadLocation:
<https://github.com/aws/aws-sdk-go-v2/feature/ec2/imds/releases/tag/v1.11.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
b7beff5e9b79311ad6e003d394b6dafa15e46e17634fa9d0328a3c61ff0ea4f
PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/feature/ec2/imds>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.feature.ec2.imds-v1.11.0

DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.feature.ec2.imds-v1.11.0

DEPENDS_ON SPDXRef-Package-github.com.aws.smithy-go-v1.11.0

Package representing the github.com/aws/aws-sdk-go-v2/internal/configsources

PackageName: github.com/aws/aws-sdk-go-v2/internal/configsources

SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.configsources-v1.1.5

PackageVersion: v1.1.5

PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/internal/configsources

PackageDownloadLocation:

<https://github.com/aws/aws-sdk-go-v2/internal/configsources/releases/tag/v1.1.5>

FilesAnalyzed: false

PackageChecksum: SHA256:

899d7fe361652f948a7e0fea3f39c5b2eb65cc07953b7ca5b7693178a3626e65

PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/internal/configsources>

PackageLicenseConcluded: NOASSERTION

PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.configsources-v1.1.5

DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0

Package representing the github.com/aws/aws-sdk-go-v2/internal/endpoints/v2

PackageName: github.com/aws/aws-sdk-go-v2/internal/endpoints/v2

SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.endpoints.v2-v2.3.0

PackageVersion: v2.3.0

PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/internal/endpoints/v2

PackageDownloadLocation:

<https://github.com/aws/aws-sdk-go-v2/internal/endpoints/v2/releases/tag/v2.3.0>

FilesAnalyzed: false

PackageChecksum: SHA256:

889d16a6b56aa893ad26a3d7855f8ca557a0d1adeac54ed8bbbd9010c3f732be

PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/internal/endpoints/v2>

PackageLicenseConcluded: NOASSERTION

PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.endpoints.v2-v2.3.0

DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.endpoints.v2-v2.3.0

DEPENDS_ON SPDXRef-Package-github.com.aws.smithy-go-v1.11.0

Package representing the github.com/aws/aws-sdk-go-v2/service/sso

PackageName: github.com/aws/aws-sdk-go-v2/service/sso

SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sso-v1.10.0

PackageVersion: v1.10.0

PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/service/sso

PackageDownloadLocation:

<https://github.com/aws/aws-sdk-go-v2/service/sso/releases/tag/v1.10.0>

FilesAnalyzed: false

PackageChecksum: SHA256:

c16fc7d01af6803d454cdb1854527d70aa8a907b6c4ecdc71897b514dd1ecf0c

PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/service/sso>

PackageLicenseConcluded: NOASSERTION

PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sso-v1.10.0

DEPENDS_ON SPDXRef-Package-github.com.aws.smithy-go-v1.11.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sso-v1.10.0

DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sso-v1.10.0

DEPENDS_ON

SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.configsources-v1.1.5

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sso-v1.10.0

DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.endpoints.v2-v2.3.0

Package representing the github.com/aws/aws-sdk-go-v2/service/internal/presigned-url

PackageName: github.com/aws/aws-sdk-go-v2/service/internal/presigned-url

SPDXID:

SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.internal.presigned-url-v1.8.0

PackageVersion: v1.8.0

PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/service/internal/presigned-url

PackageDownloadLocation:
<https://github.com/aws/aws-sdk-go-v2/service/internal/presigned-url/releases/tag/v1.8.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
4ba3cfc7e887cfbcca57c3e71754c87a05a866b105429e93e8a5fd0a4f2be5c
PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/service/internal/presigned-url>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship:
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.internal.presigned-url-v1.8.0
DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0
Relationship:
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.internal.presigned-url-v1.8.0
DEPENDS_ON SPDXRef-Package-github.com.aws.smithy-go-v1.11.0

Package representing the github.com/aws/aws-sdk-go-v2/service/sts

PackageName: github.com/aws/aws-sdk-go-v2/service/sts
SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sts-v1.15.0
PackageVersion: v1.15.0
PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/service/sts
PackageDownloadLocation:
<https://github.com/aws/aws-sdk-go-v2/service/sts/releases/tag/v1.15.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
ac91155d1e56de48138ad7d5d538ca5e434755d1295301a31cff85109be43351
PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/service/sts>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sts-v1.15.0
DEPENDS_ON SPDXRef-Package-github.com.aws.smithy-go-v1.11.0
Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sts-v1.15.0
DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0
Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sts-v1.15.0
DEPENDS_ON
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.configsources-v1.1.5

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sts-v1.15.0
DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.endpoints.v2-v2.3.0
Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sts-v1.15.0
DEPENDS_ON
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.internal.presigned-url-v1.8.0

Package representing the github.com/aws/aws-sdk-go-v2/internal/ini

PackageName: github.com/aws/aws-sdk-go-v2/internal/ini
SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.ini-v1.3.6
PackageVersion: v1.3.6
PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/internal/ini
PackageDownloadLocation:
<https://github.com/aws/aws-sdk-go-v2/internal/ini/releases/tag/v1.3.6>
FilesAnalyzed: false
PackageChecksum: SHA256:
db9817b52484c912d2937596d969481ae9fdaaeaa1a7b248f7d5c308a39a055
PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/internal/ini>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.ini-v1.3.6
DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0

Package representing the github.com/aws/aws-sdk-go-v2/config

PackageName: github.com/aws/aws-sdk-go-v2/config
SPDXID: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.config-v1.14.0
PackageVersion: v1.14.0
PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/config
PackageDownloadLocation: <https://github.com/aws/aws-sdk-go-v2/config/releases/tag/v1.14.0>
FilesAnalyzed: false
PackageChecksum: SHA256:
df33ccdfe5d94dd4178d319b2def8acb73e94ef137c13e03081741af74b3c8cd
PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/config>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.config-v1.14.0 DEPENDS_ON
SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.config-v1.14.0 DEPENDS_ON
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.credentials-v1.9.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.config-v1.14.0 DEPENDS_ON
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.feature.ec2.imds-v1.11.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.config-v1.14.0 DEPENDS_ON
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.ini-v1.3.6

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.config-v1.14.0 DEPENDS_ON
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sso-v1.10.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.config-v1.14.0 DEPENDS_ON
SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.sts-v1.15.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.config-v1.14.0 DEPENDS_ON
SPDXRef-Package-github.com.aws.smithy-go-v1.11.0

Package representing the github.com/aws/aws-sdk-go-v2/service/cognitoidentityprovider

PackageName: github.com/aws/aws-sdk-go-v2/service/cognitoidentityprovider

SPDXID:

SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.cognitoidentityprovider-v1.13.0

PackageVersion: v1.13.0

PackageSupplier: Organization: github.com/aws/aws-sdk-go-v2/service/cognitoidentityprovider

PackageDownloadLocation:

<https://github.com/aws/aws-sdk-go-v2/service/cognitoidentityprovider/releases/tag/v1.13.0>

FilesAnalyzed: false

PackageChecksum: SHA256:

124521d52d1d00414fcec98fd3c6e37eb9474e20dcc5a2acfb3626f45f74ac27

PackageHomePage: <https://github.com/aws/aws-sdk-go-v2/service/cognitoidentityprovider>

PackageLicenseConcluded: NOASSERTION

PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship:

SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.cognitoidentityprovider-v1.13.0

DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2-v1.14.0

Relationship:

SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.cognitoidentityprovider-v1.13.0

DEPENDS_ON

SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.configsources-v1.1.5

Relationship:

SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.cognitoidentityprovider-v1.13.0

DEPENDS_ON SPDXRef-Package-github.com.aws.aws-sdk-go-v2.internal.endpoints.v2-v2.3.0

Relationship: SPDXRef-Package-github.com.aws.aws-sdk-go-v2.service.cognitoidentityprovider-v1.13.0
DEPENDS_ON SPDXRef-Package-github.com.aws.smithy-go-v1.11.0

Package representing the golang.org/x/net

PackageName: golang.org/x/net
SPDXID: SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd
PackageVersion: v0.0.0-20220127200216-cd36cc0744dd
PackageSupplier: Organization: golang.org/x/net
PackageDownloadLocation: <https://golang.org/x/net>
FilesAnalyzed: false
PackageChecksum: SHA256:
2e767dd34e7c22ff9b44398f19a58f2e04326a0ae5bbec45484a6e584d31c69a
PackageHomePage: <https://golang.org/x/net>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd
DEPENDS_ON SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c
Relationship: SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd
DEPENDS_ON SPDXRef-Package-golang.org.x.text-v0.3.7
Relationship: SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd
DEPENDS_ON
SPDXRef-Package-golang.org.x.crypto-v0.0.0-20211215153901-e495a2d5b3d3

Package representing the golang.org/x/oauth2

PackageName: golang.org/x/oauth2
SPDXID: SPDXRef-Package-golang.org.x.oauth2-v0.0.0-20211104180415-d3ed0bb246c8
PackageVersion: v0.0.0-20211104180415-d3ed0bb246c8
PackageSupplier: Organization: golang.org/x/oauth2
PackageDownloadLocation: <https://golang.org/x/oauth2>
FilesAnalyzed: false
PackageChecksum: SHA256:
f21eeebcd38c8e78cde5dff969a33b1faa6faee6f4a44824302b881e91d3fd8
PackageHomePage: <https://golang.org/x/oauth2>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship: SPDXRef-Package-golang.org.x.oauth2-v0.0.0-20211104180415-d3ed0bb246c8
DEPENDS_ON SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd

Package representing the cloud.google.com/go/compute

PackageName: cloud.google.com/go/compute
SPDXID: SPDXRef-Package-cloud.google.com.go.compute-v0.1.0
PackageVersion: v0.1.0
PackageSupplier: Organization: cloud.google.com/go/compute
PackageDownloadLocation: <https://cloud.google.com/go/compute>
FilesAnalyzed: false
PackageChecksum: SHA256:
9b21aaa86e74b60b17116ba612f40d609e0ea179d06b7455257dd348785e36fd
PackageHomePage: <https://cloud.google.com/go/compute>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-cloud.google.com.go.compute-v0.1.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.api-v0.64.0
Relationship: SPDXRef-Package-cloud.google.com.go.compute-v0.1.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb
Relationship: SPDXRef-Package-cloud.google.com.go.compute-v0.1.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.grpc-v1.43.0
Relationship: SPDXRef-Package-cloud.google.com.go.compute-v0.1.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.protobuf-v1.27.1

Package representing the google.golang.org/api

PackageName: google.golang.org/api
SPDXID: SPDXRef-Package-google.golang.org.api-v0.64.0
PackageVersion: v0.64.0
PackageSupplier: Organization: google.golang.org/api
PackageDownloadLocation: <https://google.golang.org/api>
FilesAnalyzed: false
PackageChecksum: SHA256:
6050e2db2402ee59f0787130ef6e977b100fb99ef0efe640c8bf1402462c0fb4
PackageHomePage: <https://google.golang.org/api>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-google.golang.org.api-v0.64.0 DEPENDS_ON
SPDXRef-Package-github.com.golang.protobuf-v1.5.2
Relationship: SPDXRef-Package-google.golang.org.api-v0.64.0 DEPENDS_ON
SPDXRef-Package-go.opencensus.io-v0.23.0
Relationship: SPDXRef-Package-google.golang.org.api-v0.64.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd
Relationship: SPDXRef-Package-google.golang.org.api-v0.64.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.oauth2-v0.0.0-20211104180415-d3ed0bb246c8
Relationship: SPDXRef-Package-google.golang.org.api-v0.64.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c
Relationship: SPDXRef-Package-google.golang.org.api-v0.64.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb
Relationship: SPDXRef-Package-google.golang.org.api-v0.64.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.grpc-v1.43.0
Relationship: SPDXRef-Package-google.golang.org.api-v0.64.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.text-v0.3.7

Package representing the google.golang.org/grpc

PackageName: google.golang.org/grpc
SPDXID: SPDXRef-Package-google.golang.org.grpc-v1.43.0
PackageVersion: v1.43.0
PackageSupplier: Organization: google.golang.org/grpc
PackageDownloadLocation: <https://google.golang.org/grpc>
FilesAnalyzed: false
PackageChecksum: SHA256:
78231931d307e5561b6ec5c5bf77ea2840e8b0f98015c7b3093badb588a5844b
PackageHomePage: <https://google.golang.org/grpc>
PackageLicenseConcluded: NOASSERTION
PackageLicenseDeclared: NOASSERTION
PackageCopyrightText: NOASSERTION
PackageLicenseComments: NOASSERTION
PackageComment: NOASSERTION

Relationship: SPDXRef-Package-google.golang.org.grpc-v1.43.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.oauth2-v0.0.0-20211104180415-d3ed0bb246c8
Relationship: SPDXRef-Package-google.golang.org.grpc-v1.43.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c
Relationship: SPDXRef-Package-google.golang.org.grpc-v1.43.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb

Relationship: SPDXRef-Package-google.golang.org.grpc-v1.43.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.protobuf-v1.27.1

Relationship: SPDXRef-Package-google.golang.org.grpc-v1.43.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.text-v0.3.7

Relationship: SPDXRef-Package-google.golang.org.grpc-v1.43.0 DEPENDS_ON
SPDXRef-Package-github.com.cespare.xxhash.v2-v2.1.2

Relationship: SPDXRef-Package-google.golang.org.grpc-v1.43.0 DEPENDS_ON
SPDXRef-Package-github.com.golang.protobuf-v1.5.2

Relationship: SPDXRef-Package-google.golang.org.grpc-v1.43.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd

Package representing the google.golang.org/genproto

PackageName: google.golang.org/genproto

SPDXID:

SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb

PackageVersion: v0.0.0-20211223182754-3ac035c7e7cb

PackageSupplier: Organization: google.golang.org/genproto

PackageDownloadLocation: <https://google.golang.org/genproto>

FilesAnalyzed: false

PackageChecksum: SHA256:

1431c3e6d3131c434490aa31d80f7b0309ace716116bdfe280e42f259b28e14b

PackageHomePage: <https://google.golang.org/genproto>

PackageLicenseConcluded: NOASSERTION

PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship:

SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb
DEPENDS_ON SPDXRef-Package-golang.org.x.text-v0.3.7

Relationship:

SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb
DEPENDS_ON SPDXRef-Package-google.golang.org.grpc-v1.43.0

Relationship:

SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb
DEPENDS_ON SPDXRef-Package-google.golang.org.protobuf-v1.27.1

Relationship:

SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb
DEPENDS_ON SPDXRef-Package-github.com.golang.protobuf-v1.5.2

Relationship:

SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb
DEPENDS_ON SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd

Relationship:

SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb

DEPENDS_ON SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c

Package representing the github.com/golang/groupcache

PackageName: github.com/golang/groupcache

SPDXID:

SPDXRef-Package-github.com.golang.groupcache-v0.0.0-20200121045136-8c9f03a8e57e

PackageVersion: v0.0.0-20200121045136-8c9f03a8e57e

PackageSupplier: Organization: github.com/golang/groupcache

PackageDownloadLocation:

<https://github.com/golang/groupcache/releases/tag/v0.0.0-20200121045136-8c9f03a8e57e>

FilesAnalyzed: false

PackageChecksum: SHA256:

0c11b9add35e93eb5a063d946df9f42ff323f408b0dbef2693c85e045da0f256

PackageHomePage: <https://github.com/golang/groupcache>

PackageLicenseConcluded: NOASSERTION

PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Package representing the go.opencensus.io

PackageName: go.opencensus.io

SPDXID: SPDXRef-Package-go.opencensus.io-v0.23.0

PackageVersion: v0.23.0

PackageSupplier: Organization: go.opencensus.io

PackageDownloadLocation: <https://go.opencensus.io>

FilesAnalyzed: false

PackageChecksum: SHA256:

2a96094fdfe8b0b4d391fa77f454c405966484d179e1c1b497321f8140d976ec

PackageHomePage: <https://go.opencensus.io>

PackageLicenseConcluded: NOASSERTION

PackageLicenseDeclared: NOASSERTION

PackageCopyrightText: NOASSERTION

PackageLicenseComments: NOASSERTION

PackageComment: NOASSERTION

Relationship: SPDXRef-Package-go.opencensus.io-v0.23.0 DEPENDS_ON

SPDXRef-Package-golang.org.x.text-v0.3.7

Relationship: SPDXRef-Package-go.opencensus.io-v0.23.0 DEPENDS_ON

SPDXRef-Package-google.golang.org.genproto-v0.0.0-20211223182754-3ac035c7e7cb

Relationship: SPDXRef-Package-go.opencensus.io-v0.23.0 DEPENDS_ON
SPDXRef-Package-github.com.golang.groupcache-v0.0.0-20200121045136-8c9f03a8e57e
Relationship: SPDXRef-Package-go.opencensus.io-v0.23.0 DEPENDS_ON
SPDXRef-Package-github.com.golang.protobuf-v1.5.2
Relationship: SPDXRef-Package-go.opencensus.io-v0.23.0 DEPENDS_ON
SPDXRef-Package-github.com.stretchr.testify-v1.7.0
Relationship: SPDXRef-Package-go.opencensus.io-v0.23.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.net-v0.0.0-20220127200216-cd36cc0744dd
Relationship: SPDXRef-Package-go.opencensus.io-v0.23.0 DEPENDS_ON
SPDXRef-Package-google.golang.org.grpc-v1.43.0
Relationship: SPDXRef-Package-go.opencensus.io-v0.23.0 DEPENDS_ON
SPDXRef-Package-golang.org.x.sys-v0.0.0-20220222200937-f2425489ef4c