

## Threat model report for SECURITY-INSIGHTS Threat Model

**Owner:**

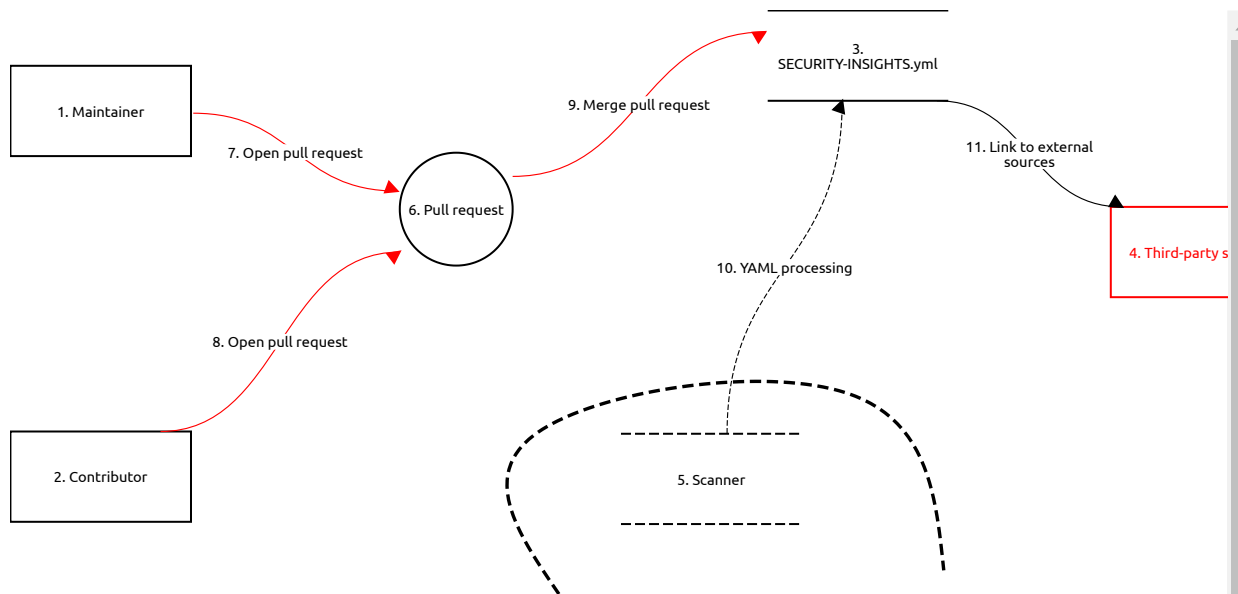
Luigi Gubello

**Reviewer:****Contributors:**

## High level system description

A threat model for the project SECURITY-INSIGHTS to evidence the related risks.

# SECURITY-INSIGHTS Threat Model



## 1. Maintainer (External Actor)

### Description:

Official maintainer of the open source project

*No threats listed.*

## 2. Contributor (External Actor)

### Description:

External contributor to the open source project

*No threats listed.*

#### 4. Third-party sources (External Actor)

**Description:**

(e.g. URLs, documents, third-party tools mentioned in the SECURITY-INSIGHTS.yml)

**Supply-chain**

*Spoofing, Open, High Priority*

**Description:**

Attackers can obtain the control of a third-party sources (e.g. website domain, server, etc) linked in the SECURITY-INSIGHTS.yml.

**Mitigation:**

Maintainers could self-host the evidence to reduce risks.

#### 6. Pull request (Process)

**Description:**

*No threats listed.*

## 7. Open pull request (Data Flow)

### **Description:**

The user opens a pull request to edit/update/implement SECURITY-INSIGHTS.yml

#### False information in the SECURITY-INSIGHTS.yml

*Repudiation, Open, High Priority*

### **Description:**

Maintainers could upload false information in the SECURITY-INSIGHTS.yml just to obtain a high score from the scanners or other services which use SECURITY-INSIGHTS to evaluate the project.

### **Mitigation:**

Scanners could introduce some additional checks (e.g. check if URLs return 200 OK status) and a weighted score to reduce the risks. In addition, the open-source community can read the file and report false information (or just information without clear evidence).

#### Private information sharing

*Information disclosure, Open, High Priority*

### **Description:**

A maintainer shares mistakenly private critical information (e.g. security audit containing unpatched vulnerabilities).

### **Mitigation:**

## 8. Open pull request (Data Flow)

### Description:

The user opens a pull request to edit/update/implement SECURITY-INSIGHTS.yml

#### Malicious pull-request

*Tampering, Open, Medium Priority*

### Description:

A malicious contributor could introduce false or malicious information (e.g. malicious URLs) to obtain a particular advantage.

### Mitigation:

The contributors' PRs to SECURITY-INSIGHTS.yml should be carefully reviewed and approved by the maintainers. In addition, the maintainers could decide to not accept direct contributions to the SECURITY-INSIGHTS.yml.

## 9. Merge pull request (Data Flow)

### Description:

#### Missing pull-request review or lacks in the review process

*Tampering, Open, Medium Priority*

### Description:

Missing PR review or lack in the review process can lead to the tampering of SECURITY-INSIGHTS.yml by adding false information.

### Mitigation:

THE PR should be formally reviewed and approved by another maintainer.

## 3. SECURITY-INSIGHTS.yml (Data Store)

### Description:

*No threats listed.*

## 11. Link to external sources (Data Flow)

**Description:**

SECURITY-INSIGHTS.yml links to external sources

*No threats listed.*

## 5. Scanner (out of scope Data Store)

**Description:**

A tool that processes the SECURITY-INSIGHTS.yml

**Out of scope reason:**

Vulnerabilities or malicious behaviors in the scanner are not directly related to SECURITY-INSIGHTS.yml

## 10. YAML processing (out of scope Data Flow)

**Description:**

The scanner ingests and processes the SECURITY-INSIGHTS.yml

**Out of scope reason:**

The scanner's security is not directly related to SECURITY-INSIGHTS.yml