Vulnerabilities
Perform per software component (artifact) in inventory

Automatic database product
identifier derivation

NVD
CPE

MSRC
Numerical product Id

GHSA
Ecosystem-dependant

Other Databases
...

Input Inventory

Software-Components

Manually curated dataset
for correction of
automated derivation

Correlation dataset

Security Advisories
Perform per vulnerability in inventory

Query databases for vulnerabilities
using identified product and version

Search for security advisories

NVD
CVE

MSRC
CVE/ADV

GHSA
ghsa/CVE

Other Databases
...

CERT-SEI

MSRC

GHSA

CERT-SEI

CSAF-Datasources

...

Intermediate Inventory

Software-Components
Vulnerabilities

Resulting Inventory

Software-Components
Vulnerabilities
Security Advisories