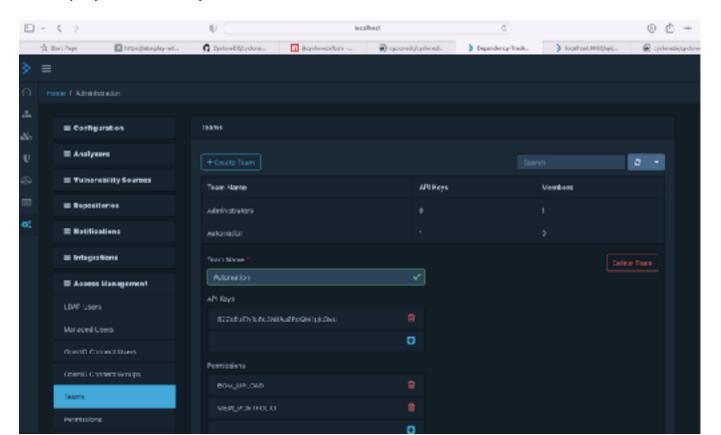
Steps to log into dependencyTrack:

- 1. #Command to pull dependency Track: docker pull dependencytrack/bundled
- 2. # Creates a dedicated volume where data can be stored outside the container docker volume create --name dependency-track
- 3. # Run the bundled container with 8GB RAM on port 8080 docker run -d -m 8192m -p 8080:8080 --name dependency-track -v dependency-track:/data dependencytrack/bundled
- 4. Launch following url in browser, URL: http://localhost:8080/dashboard
- 5. After logging into password, we have to re-set the password.
- 6. Create a new project from 'Projects' section



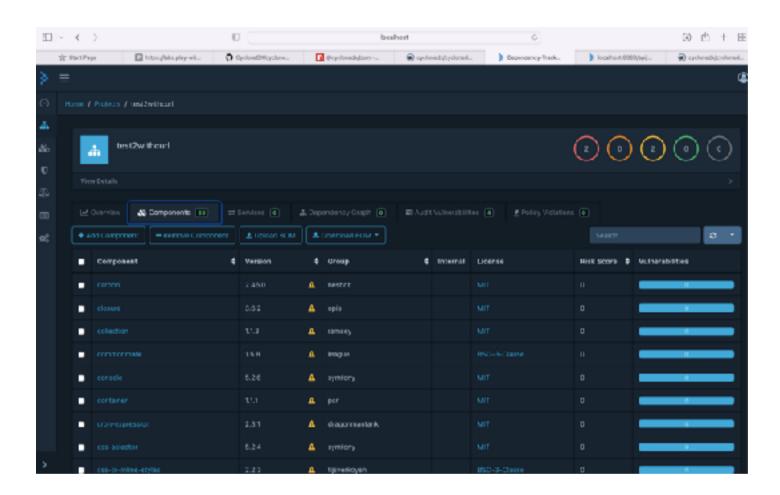
7. Make a note of 'API keys' and project id from URL after creating a project

8.Command to get base64 encoded data of bom.xml:

\$cat bom.xml | base64 -

PD94bWwqdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTqiPz4KPGJvbSB4bWxucz0iaHR0cDovL2N5Y2xvbmVkeC5vcmcvc2NoZW1hL2JvbS 8xLiEiPaogICAgPGNvbXBvbmVudHM+CiAgICAgICAgICAgPGNvbXBvbmVudCB0eXBlPSJsaWJvYXJ5Ii4KICAgICAgICAgICAgPGdvb3VwPmFzbTg5 PC9ncm91cD4KICAgICAgICAgICAgICAgPG5hbWU+c3RhY2stY29yczwvbmFtZT4KICAgICAgICAgICAgPHZlcnNpb24+MS4zLjA8L3ZlcnNpb24+Ci AgICAgICAgICAgIDxkZXNjcmlwdGlvbj5Dcm9zcv1vcmlnaW4gcmVzb3VyY2Ugc2hhcmluZyBsaWJyYXJ5IGFuZCBzdGFjayBtaWRkbGV3YXJl PnBrZzpjb21wb3Nlci9hc2040S9zdGFjay1jb3JzQDEuMy4wPC9wdXJsPqoqICAqIDwyY29tcG9uZW50PqoqICAqICAqIDxjb21wb25lbn OgdHlwZT0ibGlicmFveSI+CiAgICAgICAgICAgICAgIDxncm91cD5icmliazwvZ3JvdXA+CiAgICAgICAgICAgIDxuYW1lPm1hdGg8L25hbWU+CiAg ICAgICAgICAgIDx2ZXJzaW9uPjAu0S4yPC92ZXJzaW9uPgogICAgICAgICAgICAgICA8ZGVzY3JpcHRpb24+QXJiaXRyYXJ5LXByZWNpc2lvbiBhcm l0aG1ldGljIGxpYnJhcnk8L2Rlc2NyaXB0aW9uPgogICAgICAgICAgICABbGljZW5zZXM+CiAgICAgICAgICAgICAgICA8bGljZW5zZT4KICAg AgICAgICAgICAgICAgPHB1cmw+cGtn0mNvbXBvc2VyL2JyaWNrL21hdGhAMC45LjI8L3B1cmw+CiAgICAgICAgICAgPC9jb21wb25lbnQ+CiAgICAgICAg PGNvbXBvbmVudCB0eXBlPSJsaWJvYXJ5Ij4KICAgICAgICAgICAgICAgPGdvb3VwPmRvY3RvaW5lPC9ncm91cD4KICAgICAgICAgICAgPG5hbWU+aW 5mbGVjdG9yPC9uYW1lPgogICAgICAgICAgICA8dmVyc2lvbj4yLjAuMzwvdmVyc2lvbj4KICAgICAgICAgICAgICAgPGRlc2NyaXB0aW9uPlBIUCBE b2N0cmluZSBJbmZsZWN0b3IgaXMgYSBzbWFsbCBsaWJyYXJ5IHRoYXQgY2FuIHBlcmZvcm0gc3RyaW5nIG1hbmlwdWxhdGlvbnMgd2l0aCByZW dhcmQqdG8qdXBwZXIvbG93ZXJjYXNlIGFuZCBzaW5ndWxhci9wbHVyYWwqZm9ybXMqb2Yqd29yZHMuPC9kZXNjcmlwdGlvbj4KICAqICAqICAq ICAaPGxpY2Vuc2VzPaoaICAaICAaICAaICAaICAaGCAaPGxpY2Vuc2U+CiAaICAaICAaICAaICAaICAaICAaGCAaPGlkPk1JVDwvaW0+CiAaICAaICAaICAaICA AgICAgICA8L2xpY2Vuc2U+CiAgICAgICAgICAgIDwvbGljZW5zZXM+CiAgICAgICAgICAgIDxwdXJsPnBrZzpjb21wb3Nlci9kb2N0cmluZS9petc

- 9. **Command to upload BOM as base64 encoded data:** curl -v -X "PUT" "http://localhost:8080/api/v1/bom" -H 'Content-Type: application/json' -H 'X-API-KEY: 92ZcEoZN1o8c3NiiAuZRoQi41pjc0sju' -d \$'{"project": "758fe80a-ae76-451b-a298-ac2816b5c5f5", "bom": "<Copy/Paste above response here>"}'
- 10. After executing above command successfully, Re-fresh browser and observe below response.



Dockerfile:

From node:12

RUN apt-get update

RUN apt install —y git

RUN apt install -y curl

#RUN apt install -y npm

```
RUN git clone https://github.com/CycloneDX/cyclonedx-node-module.git
RUN git clone https://github.com/CycloneDX/cyclonedx-core-java.git
#WORKDIR /cvclonedx-node-module
# get install script and pass it to execute:
#RUN curl -sL https://deb.nodesource.com/setup 4.x | bash
# and install node
#RUN apt-get install node;s
# confirm that it was successful
#RUN node -v
# npm installs automatically
RUN npm -v
RUN npm install
RUN npm install -q @cvclonedx/bom
RUN curl -sSfL https://raw.githubusercontent.com/anchore/syft/main/install.sh | sh -s -- -b /usr/local/bin
RUN curl -sSfL https://raw.githubusercontent.com/anchore/grype/main/install.sh | sh -s -- -b /usr/local/bin
docker-compose.yml:
version: "3.9"
services:
        web:
                build: .
        cvclonedx:
                image: "cyclonedx/cyclonedx-cli"
                         dotnet:
                #image: "cyclonedx/cyclonedx-dotnet"
                #python:
         cyclonepython:
#
                 image: "cyclonedx/cyclonedx-python"
#
               # apt: python-pip3
                 pip: freeze > requirements.txt
#
```

```
# app:
                #build: .
                #dockerfile: Dockerfile
                #depends on:
                        cyclonedx
                #cvclonedx-python:
        cyclonedx-node-module:
#
                 command: npm start
                build: cyclonedx-node-module
                 command: npm install
#
                #cvclonedx-dotnet:
                #build: cyclonedx-dotnet
        cyclonedot:
                image: "cyclonedx/cyclonedx-dotnet"
         cyclonedx-core-java:
#
                 build: cyclonedx-core-java
```

Creating Volume: \$ sudo docker volume create vol2

Running container with volume: \$docker run --rm -it --name test3 -v "\$(pwd)"/WebGoat:/vol2 <Imagename>

Inspecting Volume to know container path: sudo docker volume inspect vol2

Download vulnerable web goat from GitHub and save it in local directory:

Git clone https://github.com/WebGoat/WebGoat.git

Command to create bom file with syft:

```
docker run --rm -it --name test3 -v "$(pwd)"/WebGoat:/vol2 8a37256c9914 syft packages dir:/vol2 -o cyclonedx
```

Observe that bom file gets created.