

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
```

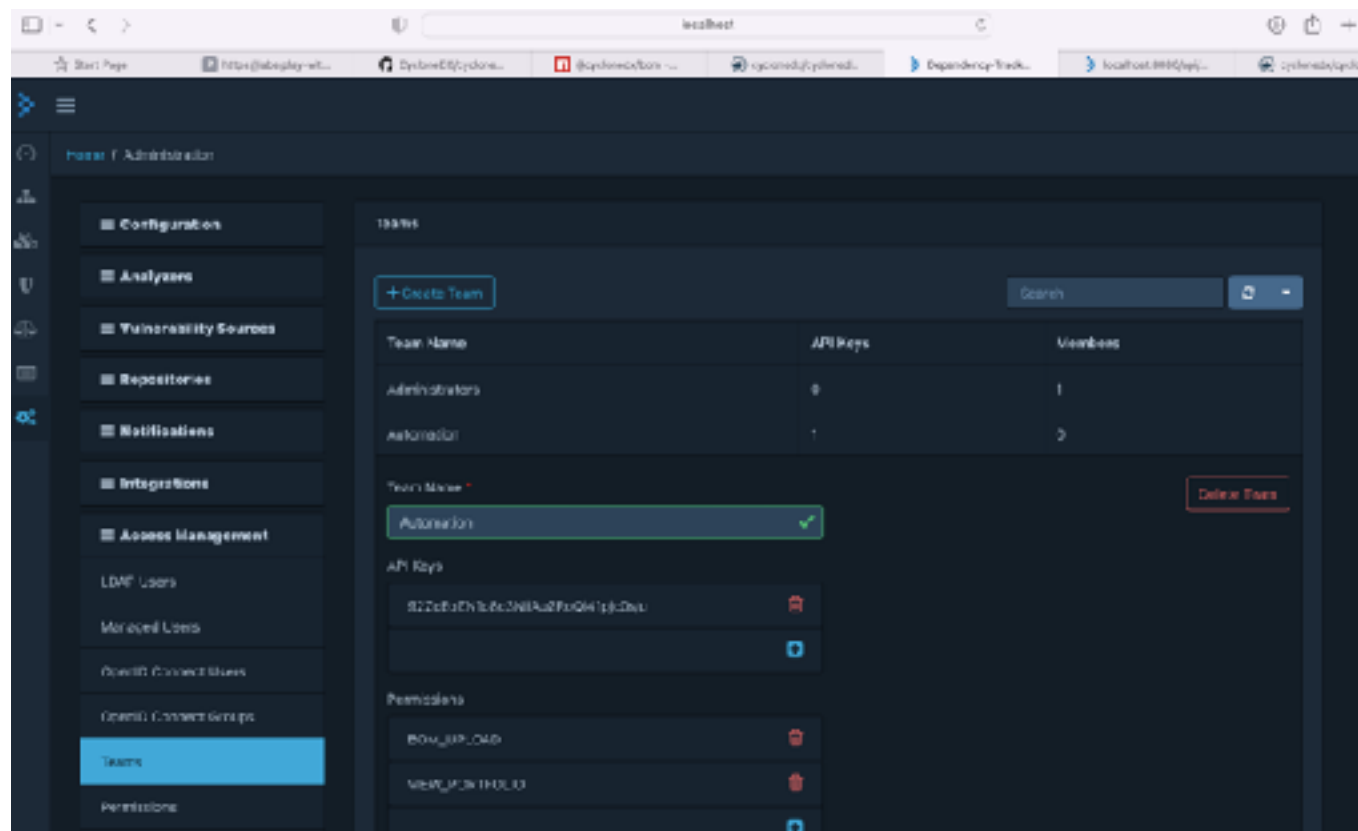
3. # Run the bundled container with 8GB RAM on port 8080

```
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

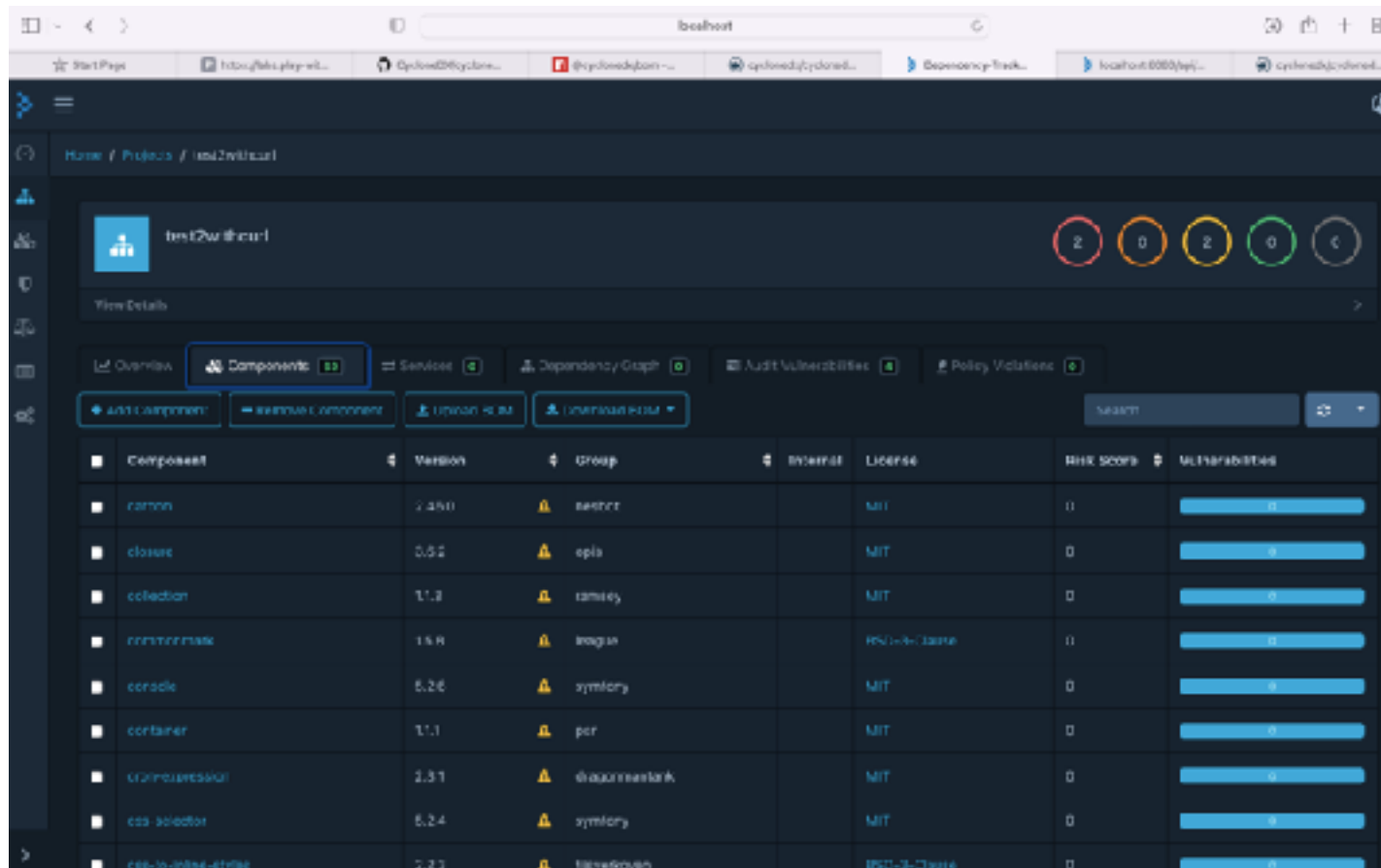
8.Command to get base64 encoded data of bom.xml:

\$cat bom.xml | base64 -

[illegible]

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-refresh 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 /cyclonedx-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 nodejs
# confirm that it was successful
#RUN node -v
# npm installs automatically
RUN npm -v
```

```
RUN npm install
```

```
RUN npm install -g @cyclonedx/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: .
  cyclonedx:
    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
        #cyclonedx-python:
cyclonedx-node-module:
#       command: npm start
        build: cyclonedx-node-module
#       command: npm install

        #cyclonedx-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

```

docker volume inspect vol2
[
  {
    "CreatedAt": "2022-02-16T16:10:57Z",
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/vol2/_data",
    "Name": "vol2",

```

```
        "Options": {},  
        "Scope": "local"  
    }  
]
```

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.