

LAPORAN PRAKTIKUM KEAMANAN JARINGAN

“INSTALASI OWASP JUICE SHOP”



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Step 1 : download OWASP juice shop

1. Install OWASP juice shop gunakan :

sudo wget https://github.com/juice-shop/juice-shop/releases/download/v14.0.1/juice-shop-14.0.1_node14_linux_x64.tgz

nantinya untuk mendownload juice_shop

```
(kali@kali)-[~]
└─$ sudo wget https://github.com/juice-shop/juice-shop/releases/download/v14.0.1/juice-shop-14.0.1_node14_linux_x64.tgz
[sudo] password for kali:
--2023-02-24 13:07:28-- https://github.com/juice-shop/juice-shop/releases/download/v14.0.1/juice-shop-14.0.1_node14_linux_x64.tgz
Resolving github.com (github.com)... 20.205.243.166
Connecting to github.com (github.com)|20.205.243.166|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/24233689/5797d98f-bef4-4f9b-8568-57cf20caba68?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20230224%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20230224T181729Z&X-Amz-Expires=300&X-Amz-Signature=628895131d0f3a143aeb52869f443e0f4add06e8e2268dace24822f143c35dac&X-Amz-SignedHeaders=host&actor_id=0&key_id=0&repo_id=24233689&response-content-disposition=attachment%3B%20filename%3Djuice-shop-14.0.1_node14_linux_x64.tgz&response-content-type=application%2Foctet-stream [following]
```

Ket :

Sudo : untuk menjadi super user

Wget : perintah untuk mengunduh berkas dari URL tertentu

2. lalu ekstrak berkasnya seperti ini :

tar xzvf juice-shop-14.0.1_node14_linux_x64.tgz

```
(kali@kali)-[~]
└─$ tar xzvf juice-shop-14.0.1_node14_linux_x64.tgz
juice-shop_14.0.1/LICENSE
juice-shop_14.0.1/CODE_OF_CONDUCT.md
juice-shop_14.0.1/CONTRIBUTING.md
juice-shop_14.0.1/HALL_OF_FAME.md
juice-shop_14.0.1/README.md
juice-shop_14.0.1/REFERENCES.md
juice-shop_14.0.1/SECURITY.md
juice-shop_14.0.1/SOLUTIONS.md
juice-shop_14.0.1/package.json
juice-shop_14.0.1/ctf.key
juice-shop_14.0.1/swagger.yml
juice-shop_14.0.1/server.ts
juice-shop_14.0.1/config.schema.yml
juice-shop_14.0.1/build/
juice-shop_14.0.1/build/app.js
juice-shop_14.0.1/build/app.js.map
juice-shop_14.0.1/build/data/
juice-shop_14.0.1/build/data/datacache.js
juice-shop_14.0.1/build/data/datacache.js.map
juice-shop_14.0.1/build/data/datacreator.js
juice-shop_14.0.1/build/data/datacreator.js.map
juice-shop_14.0.1/build/data/mongodb.js
juice-shop_14.0.1/build/data/mongodb.js.map
juice-shop_14.0.1/build/data/static/
```

Ket :

Tar : program untuk mengelola arsip di linux

Z : opsi untuk menunjukkan bahwa arsip berkas tersebut dikompresi dengan menggunakan algoritma kompresi gzip.

x: opsi untuk mengekstrak arsip berkas.

V: opsi verbose atau opsional yang menunjukkan perincian tentang proses ekstraksi, seperti nama berkas yang sedang diekstrak dan folder tujuan.

F: opsi yang diikuti dengan nama arsip berkas yang ingin diekstrak.

3. cek dirokti apakah sudah ada juice shop dengan menggunakan

ls

```
(kali@kali)-[~]  
$ ls  
Desktop Downloads juice-shop_14.0.1 Music Pictures Templates  
Documents juice-shop_14.0.1 Music Public Videos
```

ls : menampilkan file dan direktori

Step 2 instal nodejs dan npm

1. instal node js dengan menggunakan sudo wget [link instalasi node js]

sudo wget <https://nodejs.org/download/release/v14.1.0/node-v14.1.0-linux-x64.tar.xz>

```
(kali@kali)-[~]  
$ sudo wget https://nodejs.org/download/release/v14.1.0/node-v14.1.0-linux-x64.tar.xz  
[sudo] password for kali:  
--2023-02-24 20:50:49-- https://nodejs.org/download/release/v14.1.0/node-v14.1.0-linux-x64.tar  
.xz  
Resolving nodejs.org (nodejs.org)... 104.20.23.46, 104.20.22.46, 2606:4700:10::6814:172e, ...  
Connecting to nodejs.org (nodejs.org)|104.20.23.46|:443 ... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 20836040 (20M) [application/x-xz]  
Saving to: 'node-v14.1.0-linux-x64.tar.xz'
```

2. ekstrak arsip paket instalasi nodejs

sudo tar -xvf node-v14.1.0-linux-x64.tar.xz

```
(kali@kali)-[~]  
$ sudo tar -xvf node-v14.1.0-linux-x64.tar.xz  
[sudo] password for kali:  
node-v14.1.0-linux-x64/  
node-v14.1.0-linux-x64/bin/  
node-v14.1.0-linux-x64/bin/node  
node-v14.1.0-linux-x64/bin/npm  
node-v14.1.0-linux-x64/bin/npx  
node-v14.1.0-linux-x64/share/  
node-v14.1.0-linux-x64/share/systemtap/  
node-v14.1.0-linux-x64/share/systemtap/tapset/  
node-v14.1.0-linux-x64/share/systemtap/tapset/node.stp  
node-v14.1.0-linux-x64/share/doc/  
node-v14.1.0-linux-x64/share/doc/node/  
node-v14.1.0-linux-x64/share/doc/node/gdbinit
```

3. salin direktori bin, include, lib dan share dari paket nodejs kedalam direktori usr

sudo cp -r node-v14.1.0-linux-x64/{bin,include,lib,share} /usr/

```
(kali@kali)-[~]  
$ sudo cp -r node-v14.1.0-linux-x64/{bin,include,lib,share} /usr/
```

Ket

Cp : perintah yang digunakan untuk menyalin file atau direktori di lingkungan Linux.


-r : opsi perintah **cp** yang digunakan untuk menyalin direktori secara rekursif, termasuk semua subdirektori dan file di dalamnya.

node-v14.1.0-linux-x64/{bin,include,lib,share} : merupakan sintaksis yang digunakan untuk menunjukkan beberapa direktori secara bersamaan. Di sini, perintah akan menyalin direktori bin, include, lib, dan share dari paket instalasi Node.js yang telah diekstrak sebelumnya.

/usr/: direktori tujuan di mana direktori bin, include, lib, dan share dari paket instalasi Node.js akan disalin.

4. cek versi node js dengan menggunakan

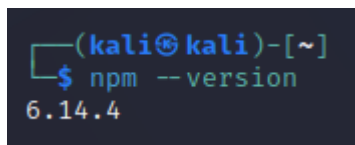
Node --version



```
(kali㉿kali)-[~]  
$ node --version  
v14.1.0
```

5. cek versi npm dengan menggunakan

Npm --version



```
(kali㉿kali)-[~]  
$ npm --version  
6.14.4
```

Step 3 install node dependencies

1. cek direktori menggunakann :

ls

selanjutnya masuk ke direktori juice-shop_14.0.1 dengan menggunakan

cd juice-shop_14.0.1

```

(kali@kali)-[~]
$ ls
Desktop      juice-shop_14.0.1      node-v14.1.0-linux-x64      Public
Documents    juice-shop-14.0.1_node14_linux_x64.tgz  node-v14.1.0-linux-x64.tar.xz  Templates
Downloads    Music                  Pictures                     Videos

(kali@kali)-[~]
$ cd juice-shop_14.0.1/

```

Ket :

Cd : untuk pindah direktori

2. install NPM

Npm install

```

(kali@kali)-[~/juice-shop_14.0.1]
$ npm install
npm WARN deprecated protractor@7.0.0: We have news to share - Protractor is deprecated and will reach end-of-life by Summer 2023. To learn more and find out about other options please refer to this post on the Angular blog. Thank you for using and contributing to Protractor. https://goo.gle/state-of-e2e-in-angular
npm WARN deprecated @types/express-unless@2.0.1: This is a stub types definition. express-unless provides its own type definitions, so you do not need this installed.
npm WARN deprecated @types/socket.io-parser@3.0.0: This is a stub types definition. socket.io-parser provides its own type definitions, so you do not need this installed.
npm WARN deprecated joi@13.7.0: This version has been deprecated in accordance with the hapi support policy (hapi.im/support). Please upgrade to the latest version to get the best features, bug fixes, and security patches. If you are unable to upgrade at this time, paid support is available for older versions (hapi.im/commercial).
npm WARN deprecated ecstatic@3.3.2: This package is unmaintained and deprecated. See the GH Issue 259.
npm WARN deprecated topo@3.0.3: This module has moved and is now available at @hapi/topo. Please update your dependencies as this version is no longer maintained and may contain bugs and security issues.
npm WARN deprecated hoek@5.0.4: This version has been deprecated in accordance with the hapi support policy (hapi.im/support). Please upgrade to the latest version to get the best features, bug fixes, and security patches. If you are unable to upgrade at this time, paid support is available for older versions (hapi.im/commercial).
npm WARN deprecated hoek@6.1.3: This module has moved and is now available at @hapi/hoek. Please update your dependencies as this version is no longer maintained and may contain bugs and security issues.
npm ERR! cb() never called!

npm ERR! This is an error with npm itself. Please report this error at:
npm ERR! <https://npm.community>

npm ERR! A complete log of this run can be found in:
npm ERR! /home/kali/.npm/_logs/2023-02-25T02_31_14_106Z-debug.log

```

3. jalankan aplikasi juice shop dengan mengetikan

Npm start

```
(kali@kali)-[~/juice-shop_14.0.1]
$ npm start

> juice-shop@14.0.1 start /home/kali/juice-shop_14.0.1
> node build/app

info: All dependencies in ./package.json are satisfied (OK)
info: Chatbot training data botDefaultTrainingData.json validated (OK)
info: Detected Node.js version v14.1.0 (OK)
info: Detected OS linux (OK)
info: Detected CPU x64 (OK)
info: Configuration default validated (OK)
info: Required file server.js is present (OK)
info: Required file tutorial.js is present (OK)
info: Required file main.js is present (OK)
info: Required file runtime.js is present (OK)
info: Required file vendor.js is present (OK)
info: Required file styles.css is present (OK)
info: Required file polyfills.js is present (OK)
info: Required file index.html is present (OK)
info: Port 3000 is available (OK)
info: Server listening on port 3000
```

Ket :

Npm start : berfungsi untuk mrnjalankan aplikasi node.js

Step 4 Finish

Masuk ke mozila firefox lalu ketik

Localhost:3000/

Hasil akhir :

