



OWASP

Open Web Application
Security Project

./SecureTea

IOT Trends and Lets Secure Your Small IOT

Internet of Things (IoT)

Internet of things (IOT) was initially used by Kevin Ashton, the co-founder of Auto-ID Center at MIT, where he defined it as: “ [...] computers that knew everything there was to know about things -- using data they gathered without any help from us -- we would be able to track and count everything and greatly reduce waste, loss and cost.”

Theory behind IoT

- **Identification** A unique identifier for a review of the administration of the Network.
- **Communication** to make it able to send and receive data. change "something" to "smart thing".
- **Sensification** sensor to get feed changes around it.
- **Connection** connect the device to the Internet.

How to start ?

Get The Code </>

Open Your Terminal

- Python and python-setuptools must be installed. (If not already installed: `sudo apt-get install python python-setuptools`)
- Download/Clone repository
from: <https://github.com/OWASP/SecureTea-Project.git>
- `git clone https://github.com/OWASP/SecureTea-Project.git`
- Install SecureTea package:
- `cd SecureTea-Project`
- `python setup.py install`

Securetea Webapp

- Install python dependencies/ requirements
- pip install -r requirements.txt
- Open the "securetea.conf" in your home directory (~/.securetea/securetea.conf) with a text editor and edit the following variables :
- Copy/Paste API KEY and TOKEN from Twitter apps

- Okay, Run program -> sudo SecureTea.py
- If you want to monitor your system from a webapp,
- cd gui
- npm install
- ng serve
- Click new tab terminal and type -> sudo python monitor.py
- Go to <http://localhost:4200> to view your project. END-POINT type <http://localhost:5000> and click SIGN IN.

Securetea Webapp

The screenshot shows a web browser at localhost:4200/dashboard. The dashboard features a navigation menu on the left and a main content area with system metrics. The metrics are displayed as follows:

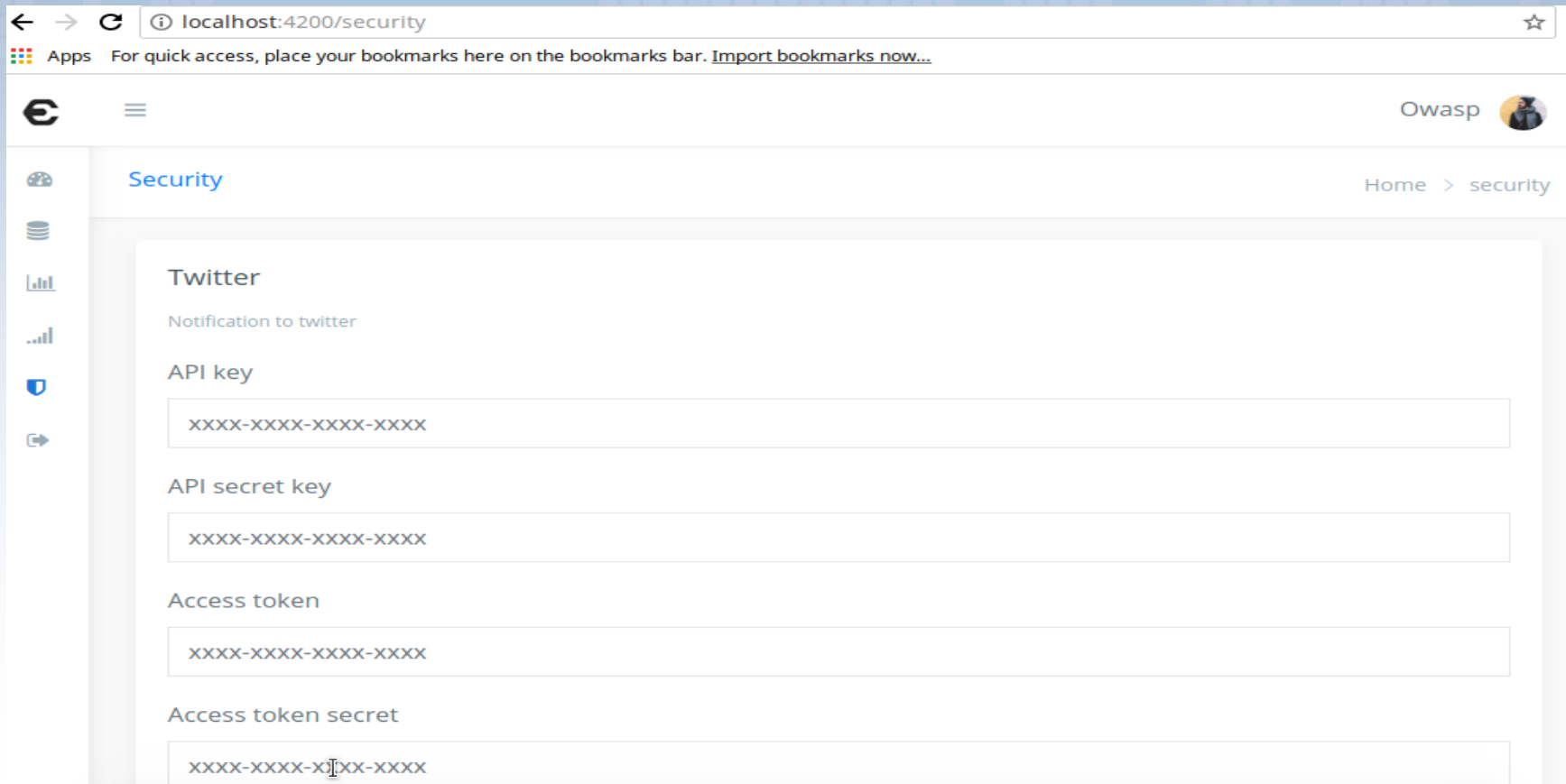
- CPU:** 50.4 % (represented by a heart icon)
- Ram:** 90.1 % (represented by a purple chip icon)
- Swap:** 1.2 % (represented by a green stack icon)
- Uptime:** 0:35:40 (represented by a blue clock icon)

Below the metrics, there are detailed sections for Processor, Ram, Swap, and Disk:

- Processor:** A table listing hardware details.

Brand	Intel(R) Core(TM) i7-2670QM CPU @ 2.20GHz
Vendor	GenuineIntel
Bits	64
Number of cores	1
Clock speed	2.2000 GHz
L1 data cache size	32 KB
L1 instruction cache size	32 KB
L2 cache size	256 KB
L3 cache size	6144 KB
- Ram:** 1 gb total, 90.1 % used (represented by a blue progress bar).
- Swap:** 3 gb total, 1.2 % used (represented by a blue progress bar).
- Disk:** Section header visible, but no data is shown.

Securetea Webapp /Gui Setting



The screenshot shows a web browser window at the URL `localhost:4200/security`. The page title is "Security" and the breadcrumb navigation is "Home > security". The main content area is titled "Twitter" and contains the following fields:

- Notification to twitter
- API key:
- API secret key:
- Access token:
- Access token secret:

We love the message!!!



Now! You're safe from this Bro !!!



Demo!!!

Thank You !!

Any Question ?