SmartHomeBuddy

Release 0.1.0

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SmartHomeBuddy

SmartHomeBuddy is a desktop application that allows you to identify smart home devices in your home network. It is extensible with custom Machine Learning models for classification and provides countermeasures to secure your home. It aims to be a simple and intuitive application, while also offering an infrastructure for interested contributors to enhance its functionality to identify, analyze and protect home networks.

- Current version: 0.1.0 (download from GitHub, release notes)
- Source (GitHub)

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CHAPTER

ONE

GET STARTED

1.1 **GUI**

Select the correct binary for your system from GitHub and install it. You should then be able to start the application.

1.2 CLI

The command line interface shbdeviceidentifier requires Python 3.8 or higher. You can start by installing the application by running the following command from the main directory of the repository:

```
cd device-identifier
```

```
pip install -r requirements.txt
```

And for example:

```
shbdeviceidentifier start
```

The result should look something like this:

```
(SHB) PS C:\Program Files\SmartHomeBuddy> shbdeviceidentifier -d start
16:27:15 | start_InfluxDB:352
16:27:15 | _get_InfluxDB_connection:143
16:27:15 | is_connected:294
                                                                                             InfluxDB started successfully.
Connected to InfluxDB v2.3.0+SNAPSHOT.090f681737 at localhost:8086.
                                                                               DEBUG
DEBUG
                                                                               DEBUG
10:27:15 | invoke:760

16:27:16 | run_rpc_server:26

16:27:16 | run_rpc_server:27

16:27:21 | start:116

16:27:21 | stop_InfluxD8:365

16:27:21 | invoke:760
                                                                                              Entering 'start' (args=(), kwargs={})
RPC server started. Press Ctrl+C to stop.
                                                                               DEBUG
                                                                                               Server listening on port 8090.
                                                                               DEBUG
                                                                               INF0
                                                                                              Stopping InfluxDB...
                                                                                           ] InfluxDB stopped successfully.
] Exiting 'start' (result=None)
                                                                               DEBUG
                                                                              DEBUG
(SHB) PS C:\Users\tobia\Documents\GitHub\SmartHomeBuddy
```

A list of available commands can be found by running the following command:

shbdeviceidentifier --help

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TWO

DOCUMENTATION

2.1 User's guide

2.1.1 Introduction

2.2 Release notes

2.2.1 What's new in SmartHomeBuddy 0.1.0

Jul 13, 2022

General changes

We are pleased to announce the release of SmartHomeBuddy 0.1.0, which marks the first release of the SmartHome-Buddy project. This release is just a simple proof of concept.

shbdeviceidentifier

The *shbdeviceidentifier* package is a Python module that can be used to identify smart home devices from a packet capture. In it's current form, it only implements basic functionality such as reading data, converting capture files to pandas DataFrames, and a rudimentary Identification of devices.

electron-app

The *electron-app* is a stand-alone Electron application for Windows and Linux (MacOS is planned for future full releases).

2.3 device-identifier

2.3.1 smarthomebuddy package

Submodules

smarthomebuddy.main module

smarthomebuddy.main.main()

Module contents

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DISCUSSION AND SUPPORT

You can report bugs on the GitHub issue tracker.

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