FileNetGuard

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Why FileNetGuard 🛡️🔍 ?

FileNetGuard is a security integrity verification software designed for Linux servers 🌙 and embedded systems ✈️. It provides robust protection against unauthorized modifications and ensures the integrity of your system (files and network ports), including the detection of rootkits and other malicious modifications. 🎩

Features ✔️

FileNetGuard offers the following key features:

- Regular security audits for files using advanced hashing algorithms (currently limited to SHA-256) and network behavior verification algorithms 📃🔍✔️
- Detailed reports indicating any unauthorized modifications on files or ports (from closed to open, from unlistened to listened) 📃
- Export of the user friendly SQLite database to CSV files for streamlined reporting, investigation 🗄️
- Report automation 🤖

Getting started 🚀

Getting Started 🚀

To use FileNetGuard, follow these simple steps:

1. Install Python3 if you don't already have it.

- On ArchLinux :

```
sudo pacman -Syu
sudo pacman -S python3
python3 --version
```

- On Debian :

```
sudo apt update
sudo apt install python3
python3 --version
```

2. Clone this repository :

```
git clone https://github.com/Aetos-arch/FileNetGuard.git
cd FileNetGuard
```

Getting started 🚀

3. Use basic commands :

```
usage: FileNetGuard.py [-h] [--init] [--report] [--openport] [--exportdb] [--schedule_periodic_repor

options:
  -h, --help              show this help message and exit
  --init                  Initialize
  --report                Generate a report
  --openport              Open a port
  --exportdb              Export database in txt files
  --schedule_periodic_report
                          Schedule periodic report
  --port PORT             Specify the port to open
  --debug                 Enable debug mode
```

🚀 FileNetGuard initializer :

```
python3 FileNetGuard.py --init
```

📊 Generate a report:

```
python3 FileNetGuard.py --report
```
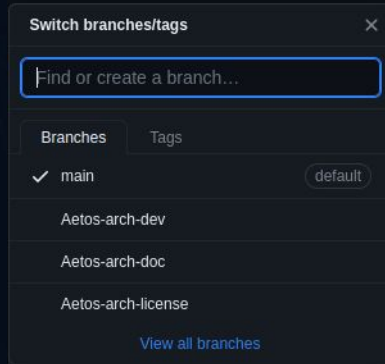
📂 Export database in CSV format:

```
python3 FileNetGuard.py --exportdb
```

🕐 Automate report generation:

```
python3 FileNetGuard.py --schedule_periodic_report
```

Contribution and License

Contribution 🤝

We welcome contributions from the open-source community to enhance FileNetGuard's capabilities and security. Please read our contribution guidelines for more information.

License 📄

FileNetGuard is released under the Apache License. You are free to use, modify, and distribute this software.

Thank you for your attention !

Any questions?