blackhat[®] ARSENAL

AUGUST 7-8, 2024 MANDALAY BAY/LAS VEGAS

Rimplant

A light-weight first-stage implant and C2 written in Python, Nim, and Rust



Cas van Cooten

/usr/bin/id

- Offensive Security enthusiast, Red Team operator & self-proclaimed "Malware Linguist"
- Likes building offensive tooling in modern languages (Rust, Nim, Go & Python)
- Publishes OST and various offsec-related repositories on Github
- Semi-pro shitposter on Twitter



Cas van Cooten

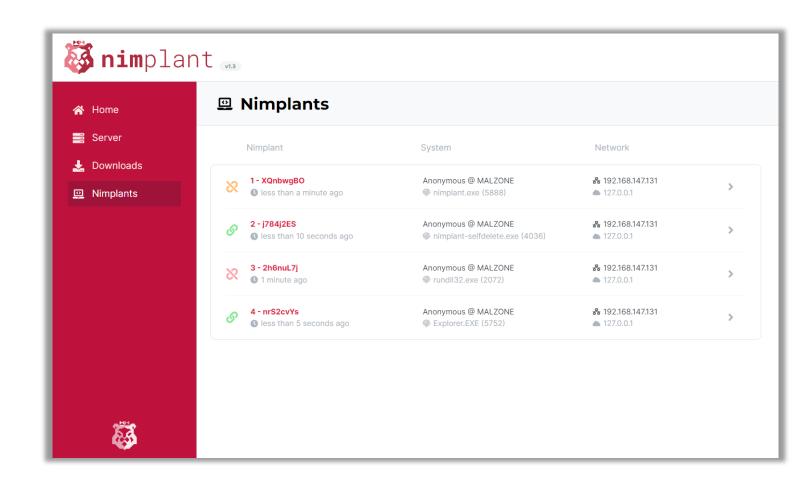
- casvancooten.com
- @chvancooten
- chvancooten
- in /in/chvancooten



Nimplant

A light-weight, first-stage C2 implant

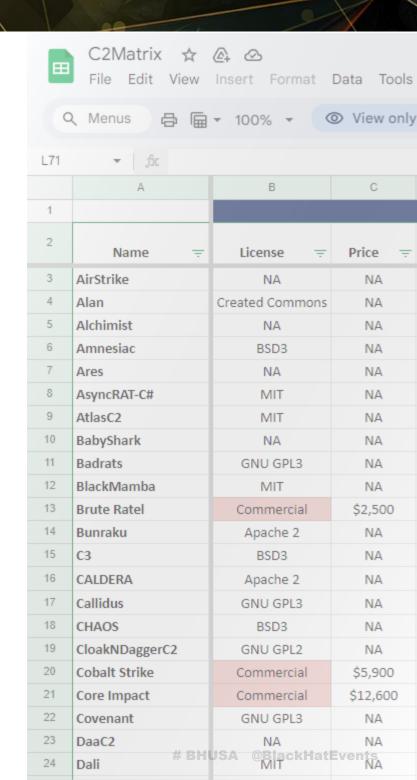
- Started as a side project
- Focus on lightweight footprint and functionality for early operations
- Easy to use and configure, evasive by default (if configured right)
- Fully open-source (MIT):
 https://github.com/chvancooten/nimplant





Nimplant But why?

- Started as a side project to learn about development in various languages
- Open-sourced to educate and inform
- Responsible open-sourcing:
 Public repository is 'defanged', defenders get early access, and detection guidance is provided





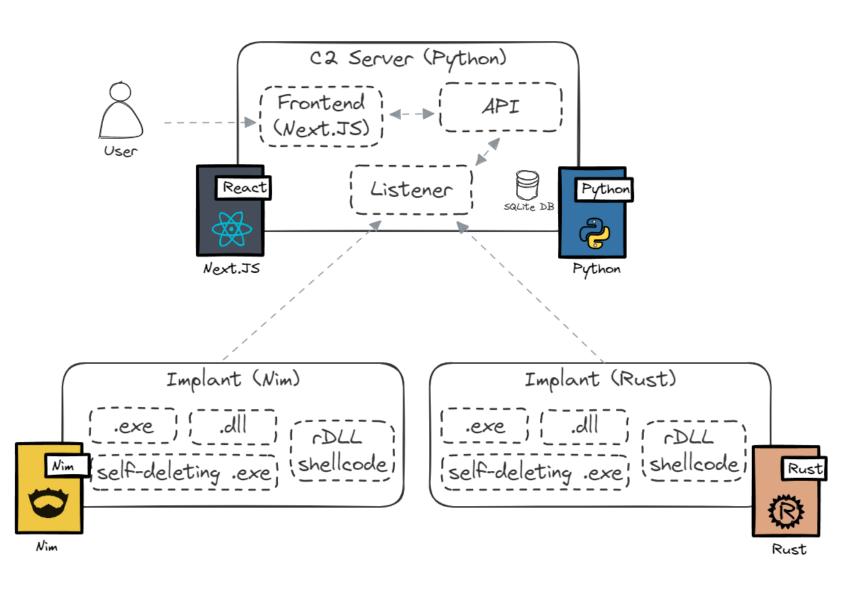
Nimplant

How does it work?

- Simple architecture, consisting of frontend, server, and implant(s)
- Various compilation modes

New for Black Hat 2024!

- Rust implant
- Dockerized setup





NimplantGetting started

- Configure server and implant via config.toml
- Compile desired artefacts locally or via Docker
- Run server locally or via Docker
- Good to go!

```
NimPlant-private : zsh — Konsole

    Ø 18:48:10    Ø /opt/NimPlant-private    Ø docker run --rm -it -v ${PWD}:/nimplant nimplant python3

 nimplant.py compile all nim
         ########
            # ########
            . ###
                #########
        A light-weight stage 1 implant and C2 written in Nim|Rust and Python
        By Cas van Cooten (@chvancooten)
Compiling .exe for NimPlant
Compiling self-deleting .exe for NimPlant
Compiling .dll for NimPlant
Compiling .bin for NimPlant
Done compiling! You can find compiled binaries in 'client/bin'.
                                                                               ¥ 19s ⊙ 18:48:30
   ′opt/NimPlant-private ≅ 🇗 dev 🕽 🦳
```



Nimplant Usage

- List commands with help
- Compile in 'risky mode' to use all commands
- Some commands have GUI modal, just type without arguments

