

**Feasible
(Solution)
for the**

**Web
Threat**


Jigsaw

The HoneyNet Project
Annual Workshop 2012

Lukas Rist

My Mom

My **Serious!** Mom



Virtual Machines
Browser **Emulator**



Virtual Machines

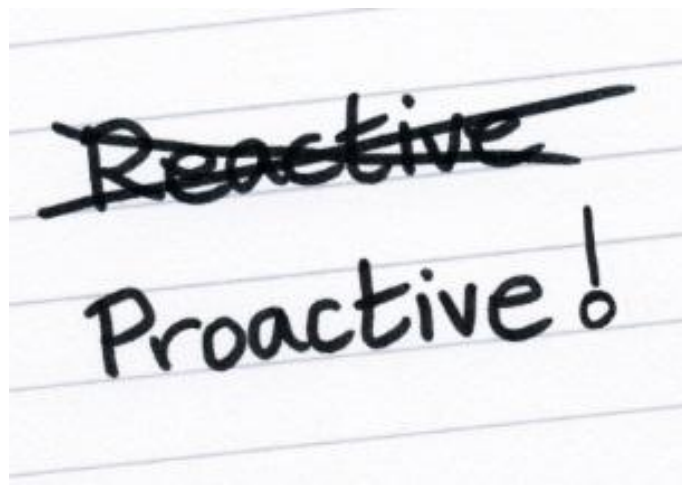
Browser **Emulator**

Domain **Reputation**

Anti-Virus engines

Observe the infection process

Get malware distribution domain



Observe the infection process

Get malware distribution domain

Reduce spreading

make them **Suffer!**



Automation

Bang for the buck

~~Piles of data~~

Efficiency

~~Manual workflow~~

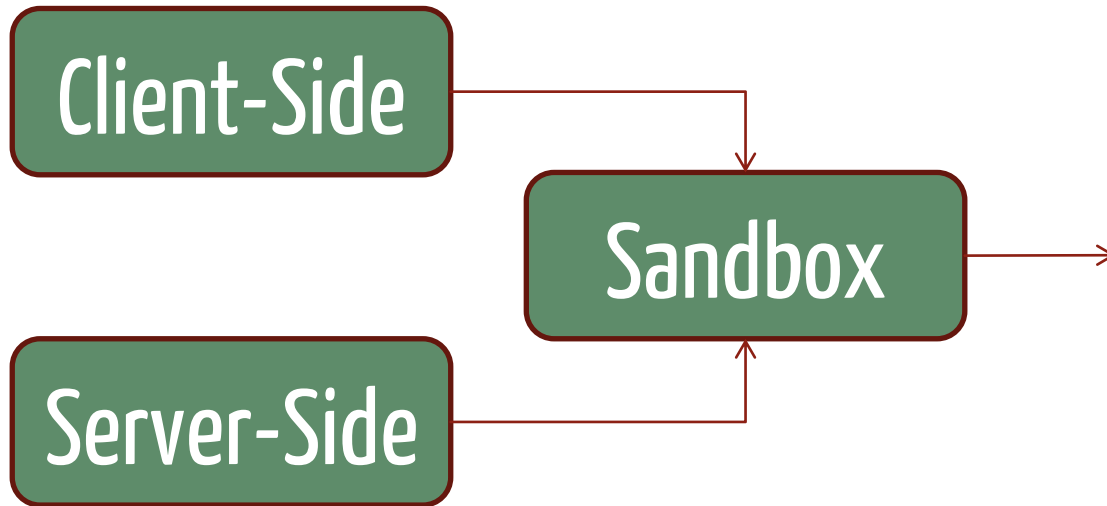
Actionable items

~~Static system~~

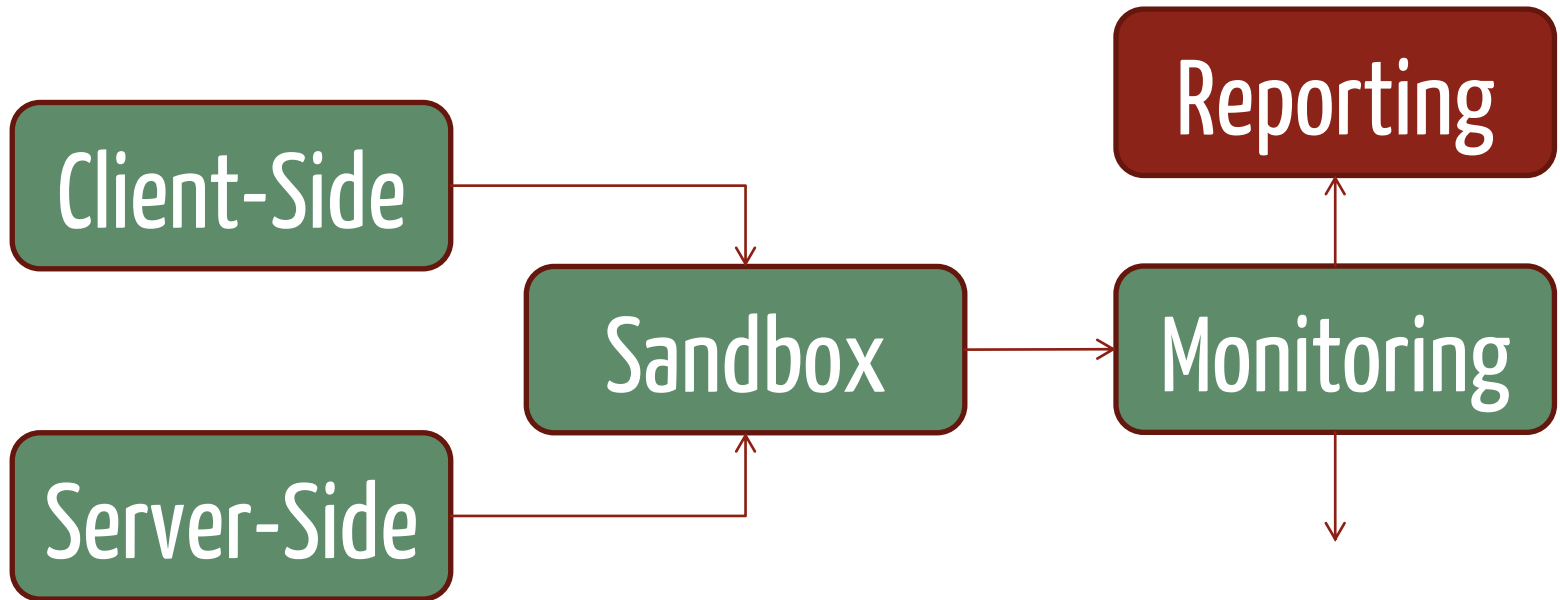
Share data



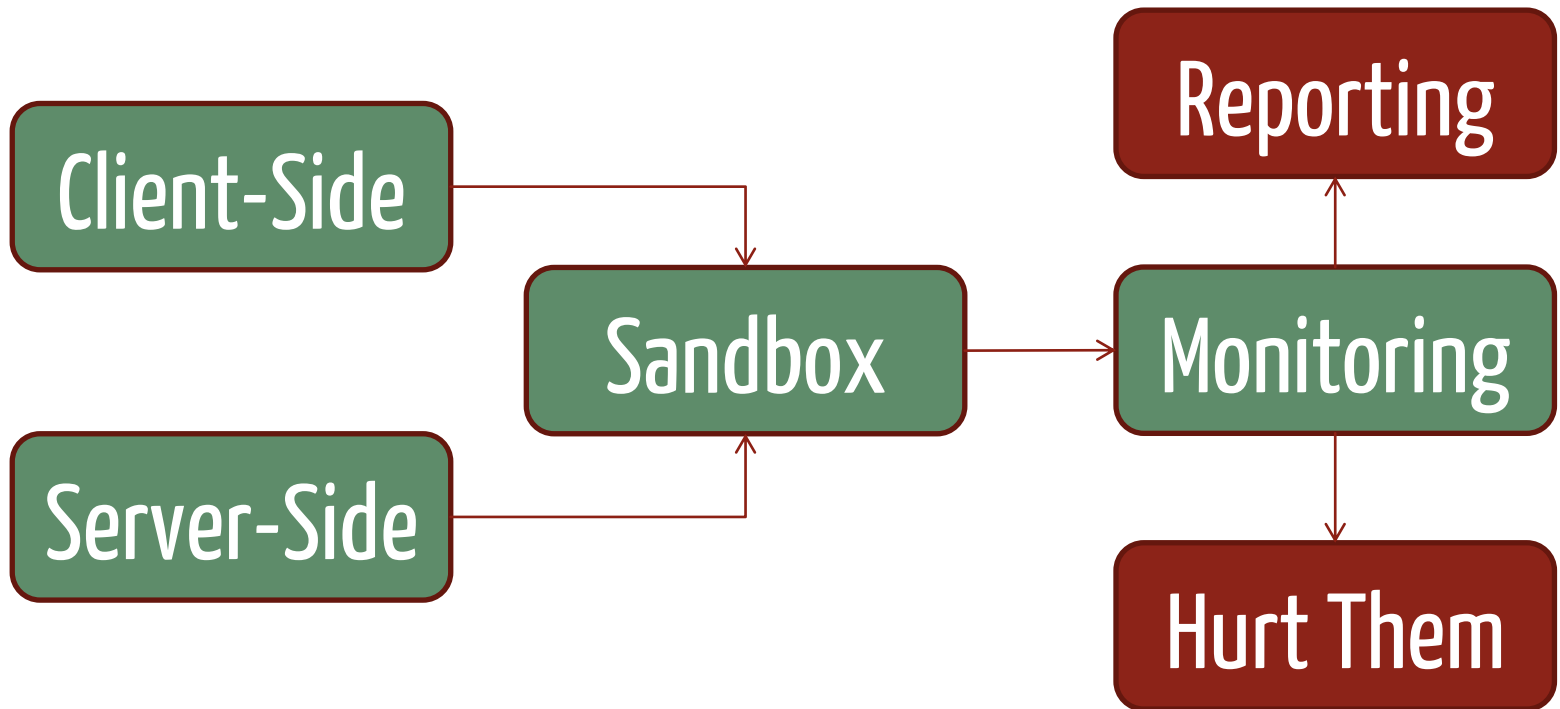
Proposal



Proposal



Proposal



Honeynet **P**roject **Feeds**

Generic, Live, Authenticated

Announcing:

Glastopf v3

Intelligent
Classification

Internal PHP
Sandbox

WSGI
Module

Libev Python web server

Intelligent
Classification

Internal PHP
Sandbox

WSGI
Module

Libev Python web server

HPFeeds
Integration

100% pure
Python

Vulnerability
Type Modules

PHP

Sandbox

Functions
Replaced

Sockets
Redirected

Fake IRC
Server

APD PHP Extension

Functions
Replaced

Sockets
Redirected

Fake IRC
Server

APD PHP Extension

HPFeeds
Integration

Virtual File
System

Web
Interface

Botnet

Spy

Fully
Automated

Pretends to
be a Bot

IRC Client

HPFeeds
Integration

100%
Python

Client-Side

Honeypots

Virtual Machine

Sandbox



Brute-Forcing Botnet Passwords

Automated Botnet **Evaluation**

Botnet **Overtake**

Brute-Forcing Botnet Passwords

Automated Botnet **Evaluation**

Botnet **Overtake**

Relocate the Botnet

Get **Intelligence**

Shut-Down the Botnet

Q&A

```
while len(questions) > 0:
```

```
    if time <= 0:
```

```
        break
```

```
    print answers[questions.pop()]
```

