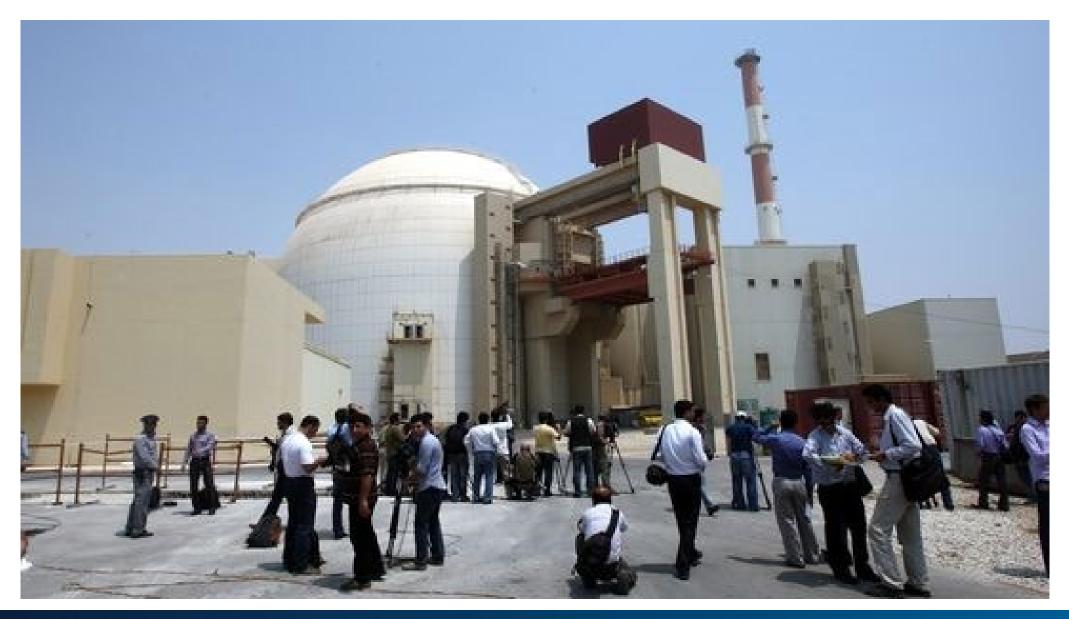


#### Stuxnet



# Hacker dringen in EDA-Computernetzwerk ein

Das Departement für auswärtige Angelegenheiten ist erneut Opfer von Cyberkriminellen geworden: Bereits zum dritten Mal in fünf Jahren haben Unberechtigte auf Daten des EDA zugegriffen – die Täter sind unbekannt.







# Angriffe über den Mensch

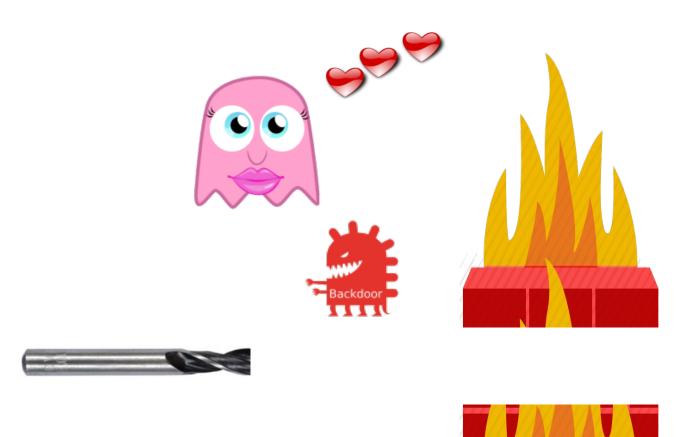
#### **Social Engineering Attacke**







# Angriff auf den «Mensch»







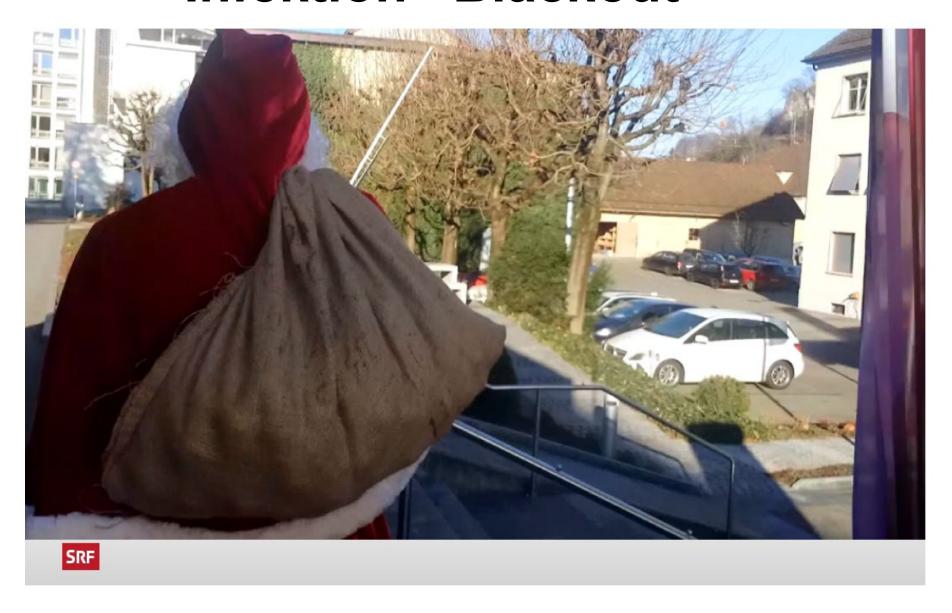








### Infektion «Blackout»



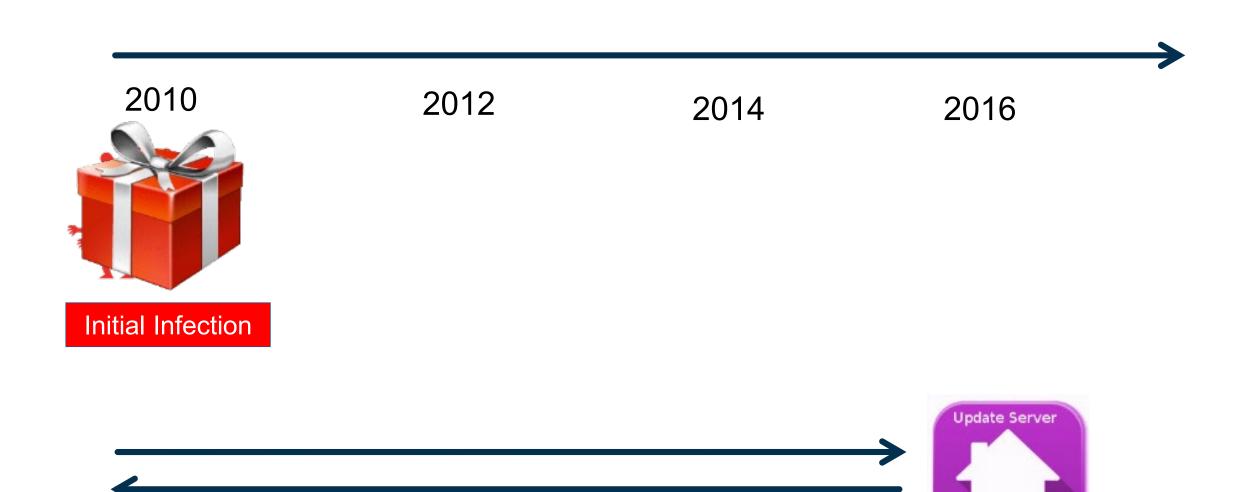
#### Infektion durch E-Mail





Microsoft Office Word Document

compass-security.com \_\_\_\_\_



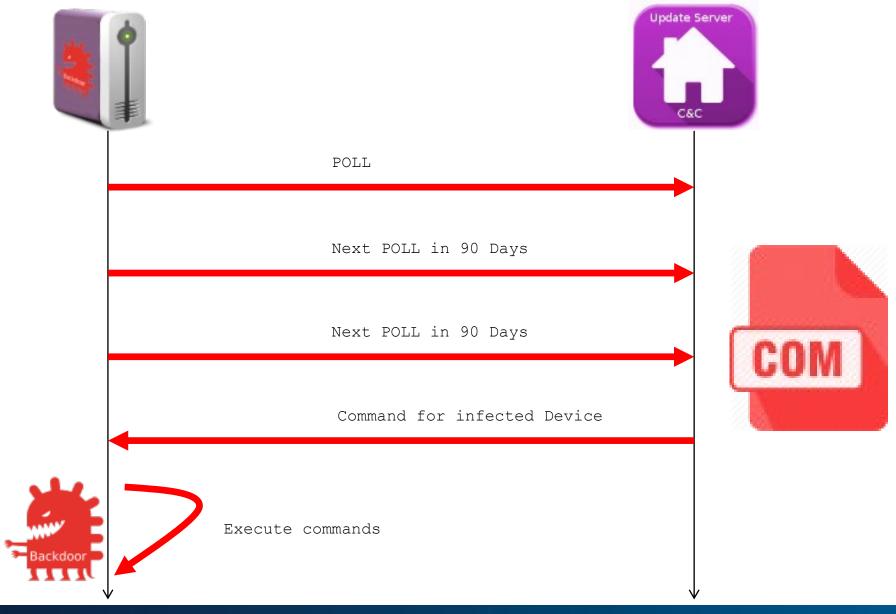
compass-security.com

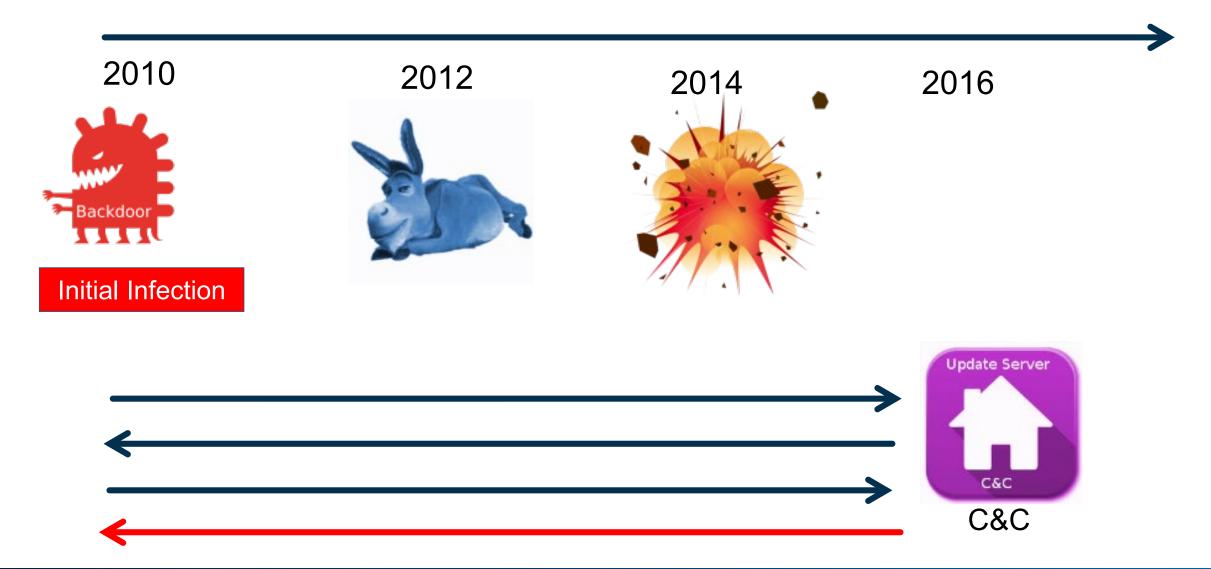
C&C

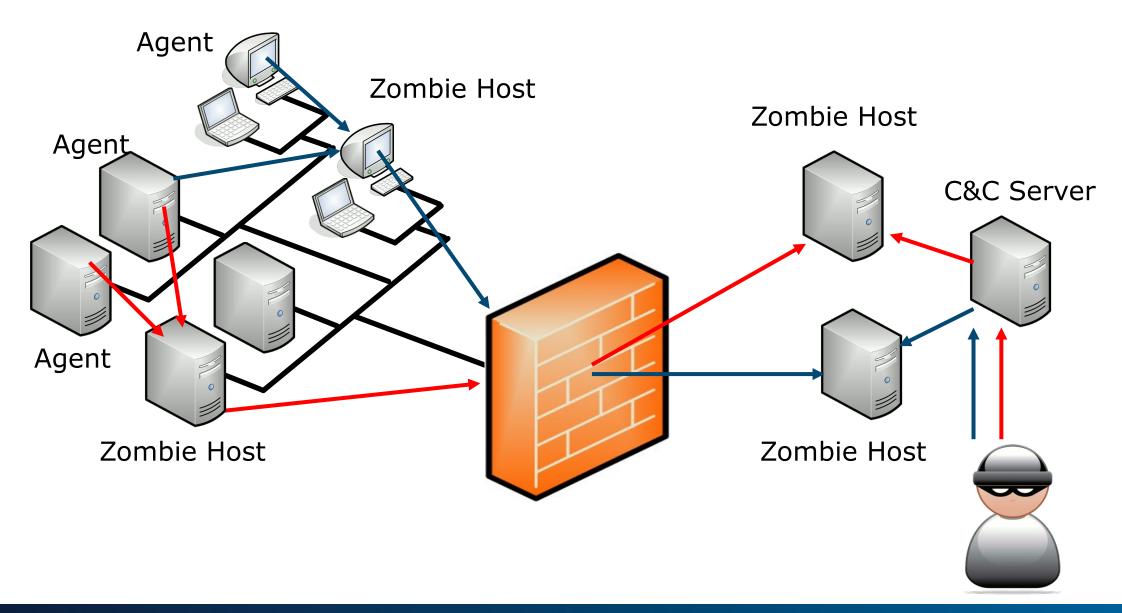
C&C



compass-security.com \_\_\_\_\_\_\_10







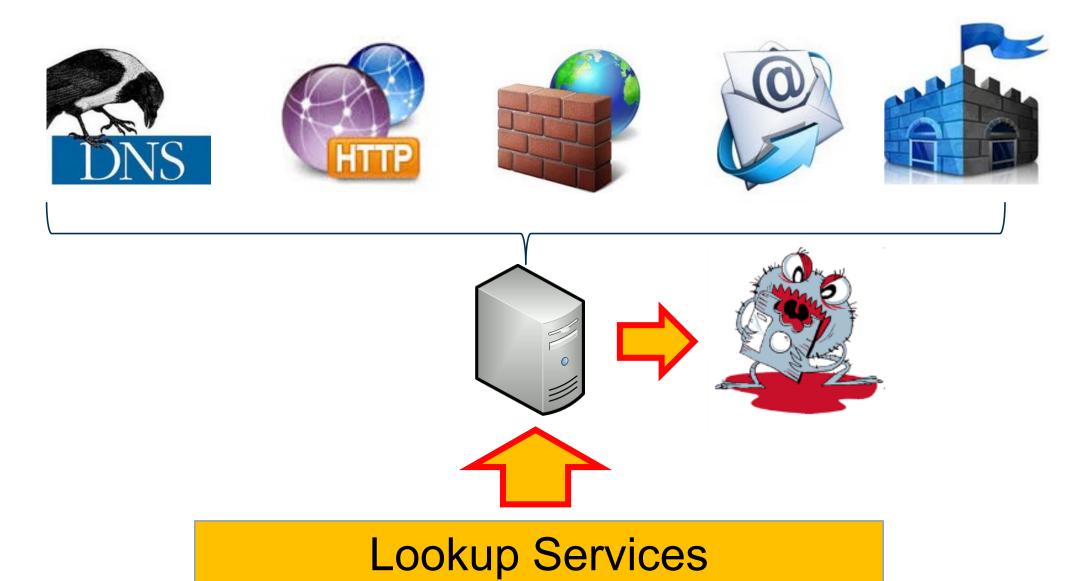


#### Was macht Locky, WannaCry & Co?



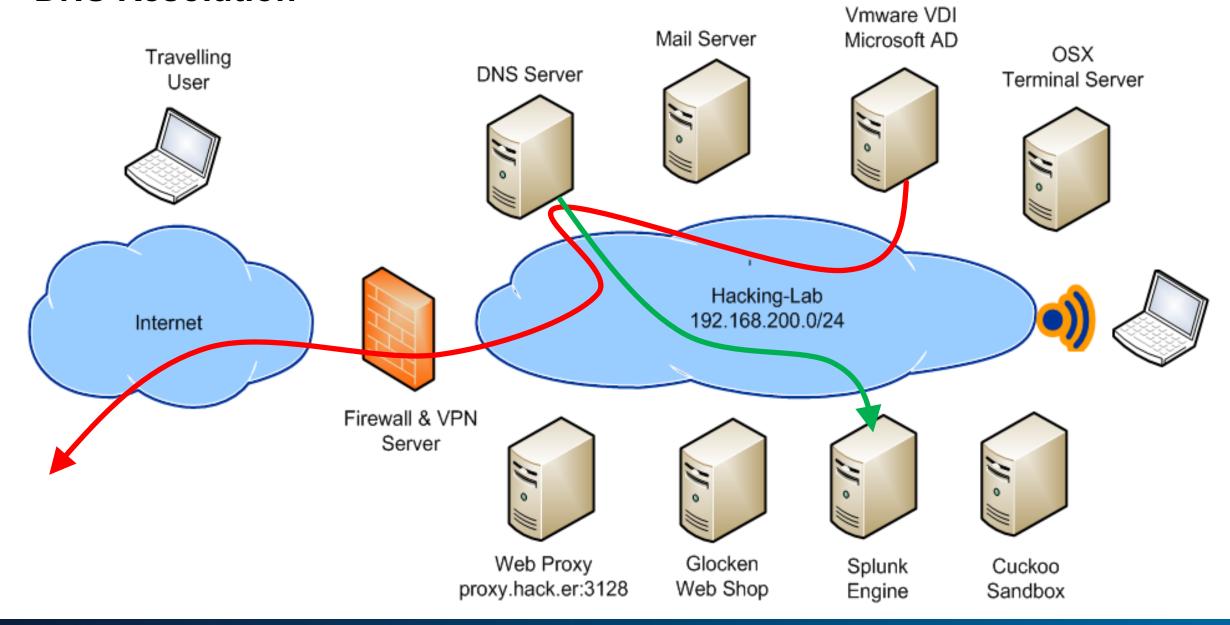
# **APT Detection using «Intelligence»**

#### **APT Detection / Level 1**

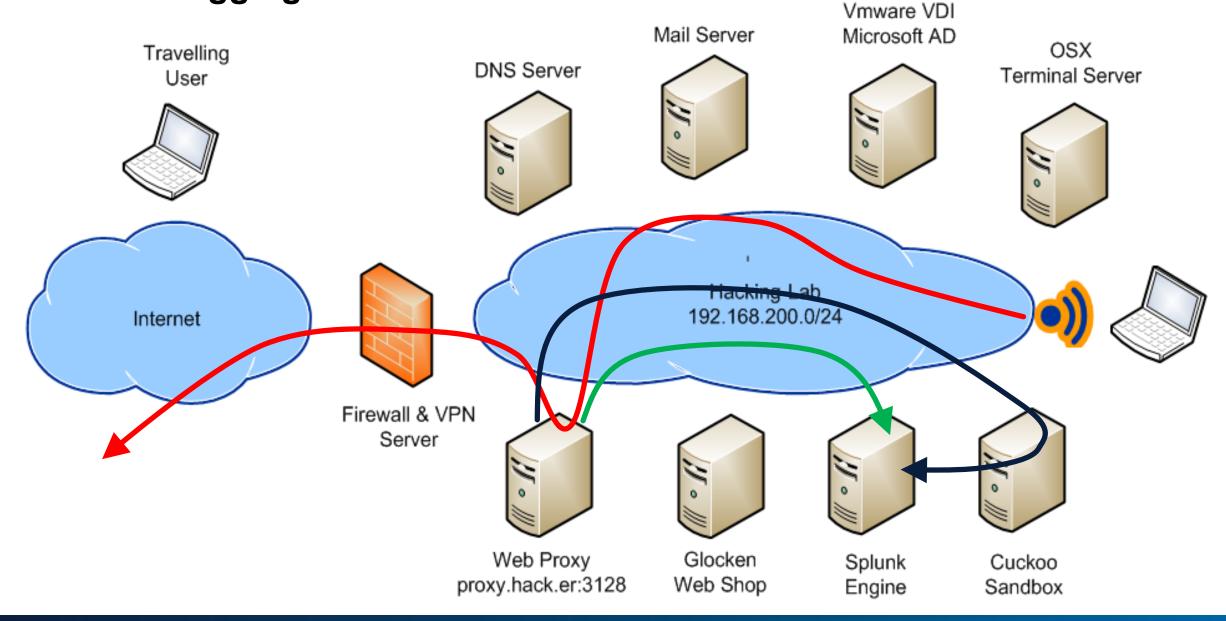


# Logging

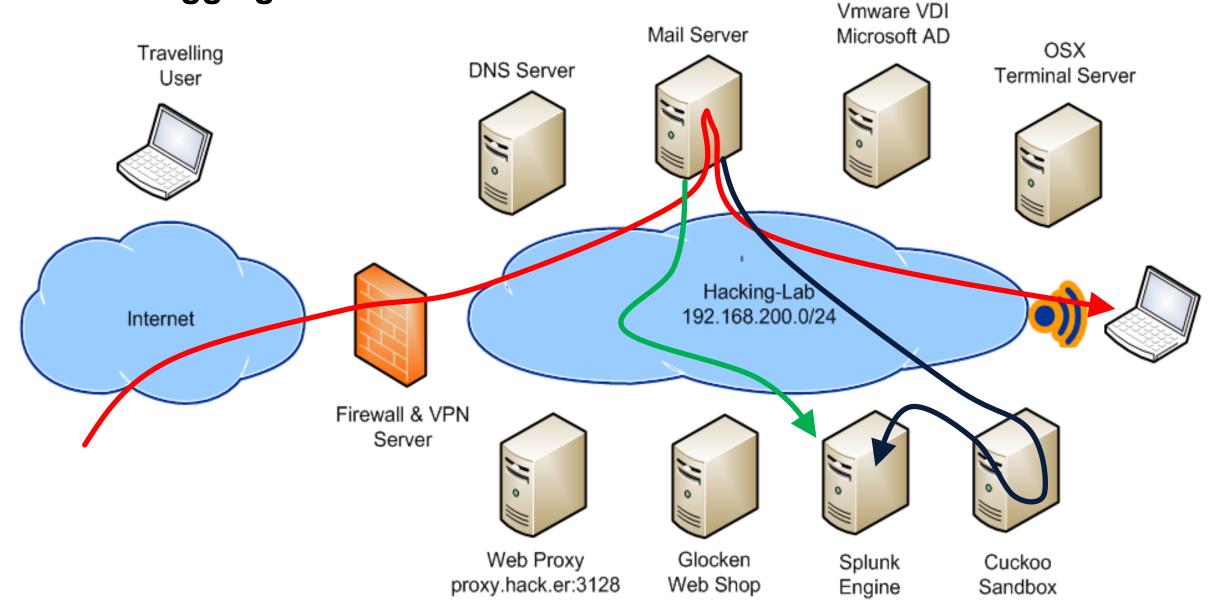
#### **DNS** Resolution



#### **HTTP/S Logging**



#### **E-Mail Logging**



# **Lookup Services**

#### Lookup Block&Black Lists

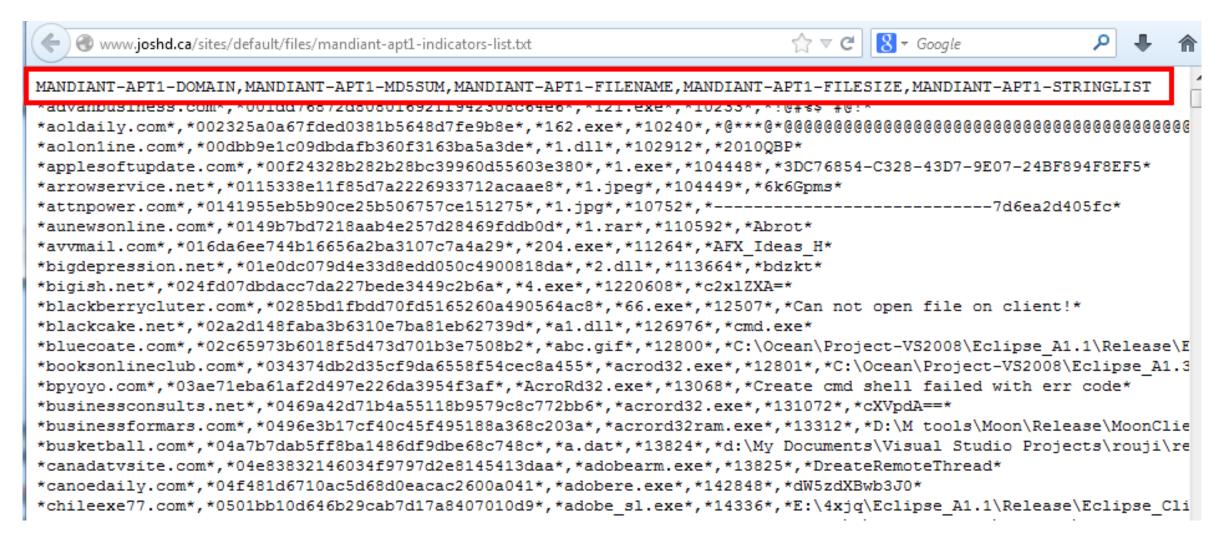


| getwatchlist http://mirror1.malwaredomains.com/files/domains.txt relevantFieldName="domain" relevantFieldCol=3 categoryCol=4 referenceCol=5 dateCol=6 isbad=true proxyHost=192.168.200.204 proxyPort=3128 | outputlookup malwaredomains.csv

Domains

citadel, drive-by, Krypt,

#### **Lookup Mandiant List**



#### Lookup ZEUS TRACKER List



| getwatchlist http://www.abuse.ch/zeustracker/blocklist.php? download=ipblocklist proxyHost=192.168.200.204 proxyPort=3128 | outputlookup zeus.csv

#### **Lookup Malware Hash List**

#### Malware Sample Acquisition Cycle

Malware.lu hashes -> VirusTotal behavioral infromation -> custom parser, DNS/ssdeep hashes extraction -> Splunk Source



#### **Lookup OpenIOC List**



#### Improvement trough modified samples

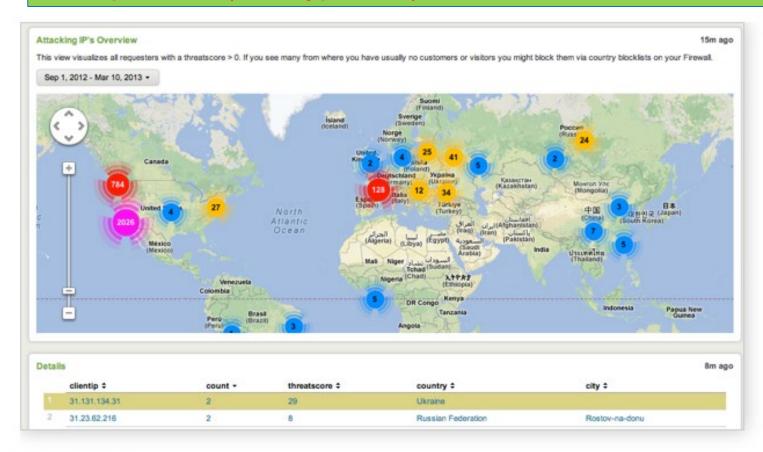
- ssdeep (http://ssdeep.sourceforge.net/) hashes for fuzzy detection of modified malware samples
- May be used for automatic generation of OpenIOC indicators (http://www.openioc.org/)

#### **Lookup OpenIOC List**



#### **Lookup IP Reputation List**

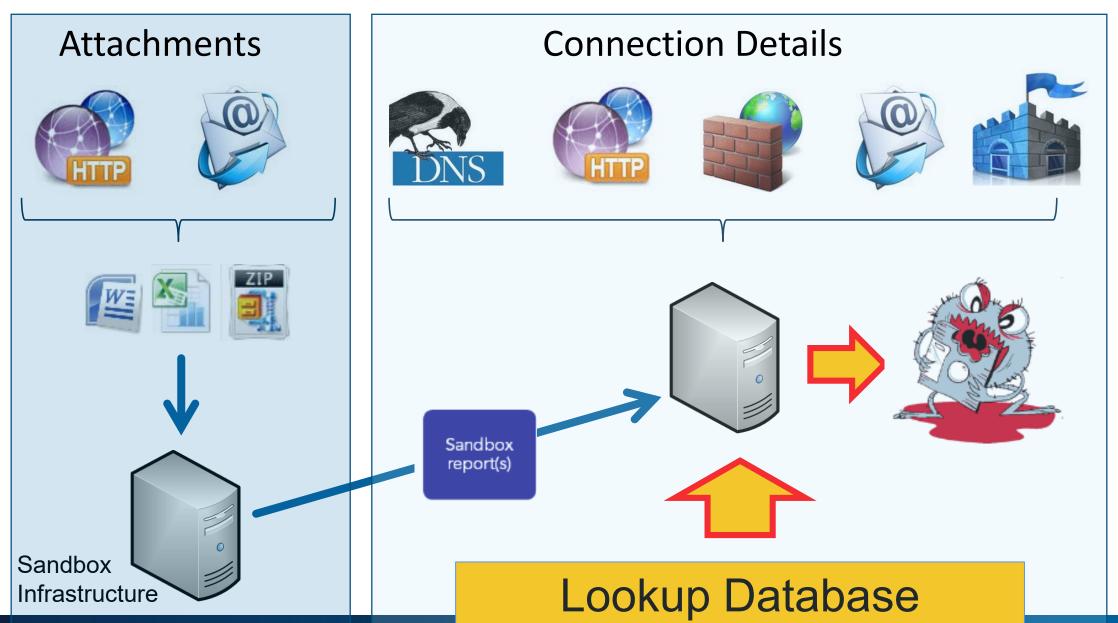
#### IP Reputation (Honeypot DB)



#### Description

This app allows you to enrich your IP Data with realtime threat information by contacting the Project Honey Pot database via DNS-Blacklist requests.

#### **APT Detection / Level 2**





FHO Fachhochschule Ostschweiz

