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Open Source for Cyber Defence/Progress

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Many structured datasets are now available in the **HAPPY TRIGGER** database. Unstructured datasets are being worked on and will go to **LOVELY HORSE**. Other integration with **TWO FACE** and **ZooL** is in place, and more will come to **XKEYSCORE**.

Contents

[edit] Data currently gathered

Data source	Nature of the data	OPP-LEG Status	In HAPPY TRIGGER?	In LOVELY HORSE?	In ZooL?	In TWO FACE?	Update frequency
alexa.com	Top domains list; has previously been used to find popular social networking sites in foreign countries to help with analyst investigations.	Approved	☐		☐	☐	Automatic updates on daily basis
user-agents.org	User agent strings, useful for finding spoofed or malicious entries	Approved	☐		☐		Manual update
www.nsrl.nist.gov	Access to hashes of known COTS files	Approved (for free scrape)					Manual update every three months
www.maxmind.com (ASN list)	Used to help map out IP ranges of networks being monitored.	Approved (for free scrape)	☐		☐		Manual update on best endeavours basis
ZeusTracker.abuse.ch	Zeus specific malware tracking including IPs, binaries and domains to be used by the e-crime team.	Approved	☐		☐	☐	Automatic updates on hourly basis
SpyEyeTracker.abuse.ch	SpyEye specific malware tracking including IPs, binaries and domains to be used by the e-crime team.	Approved	☐		☐	☐	Automatic updates on hourly basis
amada.abuse.ch	Useful for declassifying information about known malicious IPs and domains.	Approved	☐		☐	☐	Automatic updates on hourly basis
http://torstatus.blutmagie.de/	TOR consensus document, useful for identifying whether a target was using TOR and the status of the individual nodes.	Approved	☐		☐	☐	Automatic updates on hourly basis
EmergingThreats.net	Snort rules used for network monitoring purposes	Approved (for Free data)	☐		☐		Manual updates on best endeavours basis
PremiumDrops.com	Daily newly registered domains to alert analysts to suspicious domains worth investigating for malicious activity	Approved					Currently unavailable, need to find covert access method for paid content
verisign.com	Monthly updates of newly registered domains to alert analysts to suspicious domains worth investigating for malicious activity	Approved					
MalwareDomainList.com	General malware tracking resource	Approved	☐				Currently one-off sample
twitter.com	Real-time alerting to new security issues reported by known security professionals, or planned activity by hacking groups e.g. Anonymous. For more information about the sources currently being brought into the building see source list on the LOVELY HORSE wiki	Approved		☐			Prototype currently running. For more information see LOVELY HORSE
ContagioMiniDump.com	Most recommended blog by CDO analysts. Highly regarded for malware analysis relevant to APT investigations. Can be useful to declassify information for reporting purposes	Approved					
metasploit.com	Access to new zero-day exploits for the malware team to analyse	Approved (for free data)					
exploit-db.com	Access to an archive of exploits and vulnerable software. Exploits from submittals and mailing lists collected into one database.	Approved					
ics.sans.edu (Internet Storm Center)	Already used by GovCertUK on a daily basis for timely and relevant security news and incident reporting.	Approved	☐		☐		Currently updated on best endeavours basis
POSITIVE PONY	IP address to company and sector mapping. See the POSITIVE PONY wiki page for more details.	Approved Further approvals pending	☐ (dev)				Currently a static data set
NETPLATE	Multiple data types - details will be included on this page when releasable						

(POSITIVE PONY screenshots.)

[edit] Future ones to work on

Knowledge required	Available from	Update frequency	Filtering	Volumetrics	Comments
whois records	From the Passive Sigint system, or buy from RIRs (Regional Internet Registeries)? Or can we find another way of getting all updates copied to us? What about NSA's FOXTRAIL? Or our own GeoFusion? And there's now REFRIED CHICKEN from [REDACTED] ("It's a database of passively intercepted domain WHOIS records, searchable by any word in the record. Since Feb 2011. There are legal and policy constraints which mean you cannot search domains, or terms within records, that may be sensitive on grounds of location or nationality without appropriate authorisation. If you would like an account please let me know. Access to the data relies on having a Global Surge Account.")	every few days	don't know	don't know: ask the NAC?	NSA's FOXTRAIL is in this space, and needs more checks to see whether it isn't suitable. And GeoFusion (poc: [REDACTED]).
recent domain registrations	maybe an analytic run against the main DNS records to find the new domains -- or is there a more definitive source? Companies like Cyveillance are able to obtain feeds of new domain registrations (for 'brand monitoring', so I imagine we'd be able to get hold of something similar... [REDACTED]@gchq 09:51, 7 September 2011 (BST)	ready for morning and afternoon 'shifts'?	none?	very small (MB)	NSA's FOXTRAIL is in this space, and needs more checks to see whether it isn't suitable

Site	Type of data	Legal status
Pastebin	An increasing number of tip-offs are coming from the Pastebin website, as this is where many hackers anonymously advertise and promote their exploits, by publishing stolen information. An automated, regular search (say, weekly) across Pastebin for certain keywords such as .gov.uk or GSI or HMG etc. would be very valuable to ensure that GovCertUK is always notified if any information that they need to be concerned about appears in open source. "30-11-2011 GovCertUK briefed about an attack on a UN server. This tip came from open source and specifically from Pastebin where the stolen emails and passwords had been posted online."	NOT APPROVED: This nature of this site means that it would be very difficult to demonstrate the proportionality of scraping the whole site to identify the small proportion of information that would be of value to CDO and therefore approval cannot be given for scraping of the site.
OVAL List	for NDR to feed into HIDDEN SPOTLIGHT vulnerability database	APPROVED
Afraid.org	[REDACTED]: This lists domains which are publically available for anyone to add a sub-domain to. CDO analysts have suggested that this should be another resource they check alongside whois and robtex when investigating a domain.	
Joe Stewart's blog for Dell Secure Works	[REDACTED]: this regularly includes SNORT rules and other information that can be signatured.	APPROVED
scadasec mailing list	[REDACTED] request	APPROVED

[edit] Vulnerability Intelligence

Knowledge required	Available from	Update frequency	Filtering	Volumetrics	Comments
twitter traffic for vulnerabilities	use twitter API in standard way	hourly?	by twitter names of known malware/vulnerability researchers	very small (MB)	Current work is BIRD SEED. JTRIG's BIRDSTRIKE provides the scraping already, but only for handfuls of IDs, and doesn't repeat. The tweets requires data mining. Experiment run by CDT for NDR using Cyber Cloud, and has OPP-LEG approval already.
certain blogs and CERT web sites for vulnerabilities	direct web scrape (if allowed). MHS OSINT pages have examples?	hourly?	by list of specific sites/pages	small (GB)	TR-CISA have previously run several contracts looking at this problem, with a view to delivery to CNE. Final wrap up work is scheduled to automate the derivation of SEM rules (see TR-FSP) from open source information such that machines matching those rule (vulnerabilities) can be found in passive. Wanted by NDR (ref MARBLE POLLS) and GovCERT. See Open source vulnerability sources.
certain CERT IRC chatrooms for vulnerabilities	direct IRC access (if allowed)	hourly?	by list of specific IRCs	v.small (MB)	NB: Assume will include some encrypted IRCs. Wanted by GovCERT. Maybe a MARBLE POLLS source.
certain CERT email lists for vulnerabilities	direct reception	hourly?	by list of specific mailing lists	v.small (MB)	NB: Assume will include some encrypted email (including PGP). Wanted by GovCERT. Maybe a MARBLE POLLS source.
Commits to open source code repositories and security patch check-ins	GitHub etc.	daily?	by specific code projects, presumably	small (GB)	Requested by NDR [REDACTED].
Emerging Threats 'Open'	Scraped via SHORTFALL framework	Daily?	By updated Snort rules	???	Approval granted from OP-LEG to scrape info.

[edit] Bulk Infrastructure Data

Knowledge required	Available from	Update frequency	Filtering	Volumetrics	Comments
known malware/bot/spam servers/orbs/relays	eg, SpamHaus block lists, DNS block lists (dnsbl.abuse.ch), DNS blackholing lists (malwaredomainlist.com), Drive-by downloads (blade-defender.org) etc.	several times a day	none	small (GB)	SpamHaus import is already an exploit-level service from ITServices. TR-CISA have just completed an initial study of open sources of this sort of information, with an initial delivery of sample data to CDO. Longer term, we can set up an automated service to fetch this regularly from the Internet, although initially we will use JTRIG infrastructure. Some directly requested by CDO via [REDACTED].
known good lists	eg, Clean MX (support.clean-mx.de), and perhaps Google's Safe Browsing API could be used (see blog entry?	several times a day	none	small (GB)	Directly requested by CDO via [REDACTED]
known ORB servers	from sources eg, GhostNet	daily	none	very small (MB)	idea from CDO

[edit] Miscellaneous

Knowledge required	Available from	Update frequency	Filtering	Volumetrics	Comments
UK address to protect	need to find out how we get them at the moment.	weekly?	none	small (GB)	[REDACTED] apparently got complete list of .gov.uk domains via JANET in June 2011. [REDACTED] trawled KED (and therefore probably Akamai whois data) to find some List X network info.
USER_AGENT strings, sources, and expected frequency	?	weekly?	none	small (GB)	see User Agent prototype by [REDACTED]. Of wider interest.
Malware development and hacking techniques being discussed in forums	requires covert monitoring of forums	weekly?	?	?	CKX currently working with E-crime to identify and evaluate forums of potential interest. This project may extend to active monitoring of and reporting on discussions in selected forums. CKX Ops Manager is [REDACTED].

POC: [REDACTED] ☐
POC: [REDACTED] (email) ☐
POC: [REDACTED] (email) ☐

Retrieved from "[REDACTED]"

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