

## Open Source for Cyber Defence/Progress

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Jump to: [navigation](#), [search](#)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](#).

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#### [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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Automatic updates on daily basis
user-agents.org	User agent strings, useful for finding spoofed or malicious entries	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manual update
www.nsl.nist.gov	Access to hashes of known COTS files	Approved (for free scrape)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Automatic updates on hourly basis
amada.abuse.ch	Useful for declassifying information about known malicious IPs and domains.	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Automatic updates on hourly basis
EmergingThreats.net	Snort rules used for network monitoring purposes	Approved (for Free data)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Manual updates on best endeavours basis
PremiumDrops.com	Daily newly registered domains to alert analysts to suspicious domains worth investigating for malicious activity	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Currently unavailable, need to find covert access method for paid content
versign.com	Monthly updates of newly registered domains to alert analysts to suspicious domains worth investigating for malicious activity	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MalwareDomainList.com	General malware tracking resource	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 <a href="#">the LOVELY HORSE wiki</a>	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prototype currently running. For more information see <a href="#">LOVELY HORSE</a>
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
metasploit.com	Access to new zero-day exploits for the malware team to analyse	Approved (for free data)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
exploit-db.com	Access to an archive of exploits and vulnerable software. Exploits from submittals and mailing lists collected into one database.	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ics.sans.edu (Internet Storm Center)	Already used by GovCertUK on a daily basis for timely and relevant security news and incident reporting.	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Currently updated on best endeavours basis
<a href="#">POSITIVE PONY</a>	IP address to company and sector mapping. See the POSITIVE PONY wiki page for more details.	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Currently a static data set
<a href="#">NETPLATE</a>	Multiple data types - details will be included on this page when releasable	Further approvals pending	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

(POSITIVE PONY screenshots)

#### [edit] Future ones to work on

Knowledge required	Available from	Type of data	Update frequency	Filtering	Volumetrics	Comments
whois records	From the Passive Sigit system, or buy from RIRs (Regional Internet Registries)? 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 REFRID CHICKEN 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	NSA's <a href="#">FOXTRAIL</a> 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 <a href="#">FOXTRAIL</a> is in this space, and needs more checks to see whether it isn't suitable
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 <a href="#">HIDDEN SPOTLIGHT</a> vulnerability database				APPROVED	
Afraid.org	[REDACTED]: This lists domains which are publicly available for anyone to add a sub-domain to. CDO analysts have suggested that this should be another resource they check alongside whois and robtob when investigating a domain.					
Joe Stew's blog for Dell Secure Works	[REDACTED]: this regularly includes SNORT rules and other information that can be signedatured.				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 <a href="#">BIRD SEED</a> . 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
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 <a href="#">TR-FSP</a> ) from open source information such that machines matching those rule (vulnerabilities) can be found in passive. Wanted by NDR (ref <a href="#">MARBLE POLLS</a> ) and GovCERT. See <a href="#">Open source vulnerability sources</a> .
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 <a href="#">MARBLE POLLS</a> 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 <a href="#">MARBLE POLLS</a> 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/hot/spam servers/orbs/relays	eg. Spambiflous 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)	Spambiflous 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 <a href="#">blog entry</a> ?)	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].

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