

TOP SECRET STRAP1 COMINT

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# JTRIG tools and techniques

(Redirected from JTRIG CITD - Covert Internet Technical Development)

Overview

JTRIG Capabilities

Contacts

## [edit] JTRIG tools



### Contents

- 1 JTRIG tools
  - 1.1 Understanding this page
  - 1.2 Current Priorities
    - 1.2.1 Engineering
    - 1.2.2 Collection
    - 1.2.3 Effects Capability
    - 1.2.4 Work Flow Management
    - 1.2.5 Analysis Tools
    - 1.2.6 Databases
    - 1.2.7 Forensic Exploitation
    - 1.2.8 Techniques
    - 1.2.9 Shaping and Honey pots

We don't update this page anymore, it became somewhat of a Chinese menu for effects operations. Information is now available for JTRIG staff at [[1]]

## [edit] Understanding this page

Tools and techniques are developed by various teams within JTRIG. We like to let people know when we have something that we can think we can use, but we also don't want to oversell our capability.

For this reason, each tool indicates its current status. We may put up experimental tools or ones that are still in development so you know what we are working on, and can approach JTRIG with any new ideas. But experimental tools by their nature will be unreliable, if you raise expectations or make external commitments before speaking to us you will probably end up looking stupid.

Most of our tools are fully operational, tested and reliable. We will indicate when this is the case; however there can be reasons why our tools won't work for some operational requirements (eg if it exploits a provider specific vulnerability). There may also be legal restrictions.

So please come and speak to JTRIG operational staff early in your operational planning process.

## [edit] Current Priorities

Capability Development Priorities can be found by following the link below

- CapDev Priorities (Discover)

- navigation
- Main Page
  - Help Pages
  - Wikipedia Mirror
  - Ask Me About...
  - Random page
  - Recent changes
  - Report a Problem
  - Contacts
  - GCWeb

search

Go | Search

- toolbox
- What links here
  - Related changes
  - Upload file
  - Special pages
  - Printable version
  - Permanent link



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[edit] **Engineering**

Tool/System	Description	Status	Contacts
<b>Cerberus Statistics Collection</b>	Collects on-going usage information about how many users utilise JTRIG's UIA capability, what sites are the most frequently visited etc. This is in order to provide JTRIG infrastructure and ITServices management information statistics.	OPERATIONAL	JTRIG Software Developers
<b>JTRIG RADIANT SPLENDOUR</b>	is a 'Data Diode' connecting the CERBERUS network with GCNET	OPERATIONAL	JTRIG Software Developers
<b>ALLIUM ARCH</b>	JTRIG UIA via the Tor network.	OPERATIONAL	JTRIG Infrastructure Team
<b>ASTRAL PROJECTION</b>	Remote GSM secure covert internet proxy using TOR hidden services.	OPERATIONAL	JTRIG Infrastructure Team
<b>TWILIGHT ARROW</b>	Remote GSM secure covert internet proxy using VPN services.	OPERATIONAL	JTRIG Infrastructure Team
<b>SPICE ISLAND</b>	JTRIG's new infrastructure. FOREST WARRIOR, FRUIT BOWL, JAZZ FUSION and other JTRIG systems will form part of the SPICE ISLAND infrastructure	DEV	JTRIG Infrastructure Team
<b>POISON ARROW</b>	Safe Malware download capability.	DESIGN	JTRIG Infrastructure Team
<b>FRUIT BOWL</b>	CERBERUS UIA Replacement and new tools infrastructure – Primary Domain for Generic User/Tools Access and TOR split into 3 sub-systems.	DESIGN	JTRIG Infrastructure Team
<b>NUT ALLERGY</b>	JTRIG Tor web browser - Sandbox IE replacement and FRUIT BOWL sub-system	PILOT	JTRIG Infrastructure Team
<b>BERRY TWISTER</b>	A sub-system of FRUIT BOWL	PILOT	JTRIG Infrastructure Team
<b>BERRY TWISTER+</b>	A sub-system of FRUIT BOWL	PILOT	JTRIG Infrastructure Team
<b>BRANDY SNAP</b>	JTRIG UIA contingency at Scarborough.	IMPLEMENTATION	JTRIG Infrastructure Team
<b>WIND FARM</b>	R&D offsite facility.	DESIGN	JTRIG Infrastructure Team
<b>CERBERUS</b>	JTRIG's legacy UIA desktop, soon to be replaced with FOREST WARRIOR.	OPERATIONAL	JTRIG Infrastructure Team
<b>BOMBAYROLL</b>	JTRIG's legacy UIA standalone capability.	OPERATIONAL	JTRIG Infrastructure Team
<b>JAZZ FUSION</b>	BOMBAY ROLL Replacement which will also incorporate new collectors – Primary Domain for Dedicated Connections split into 3 sub-systems.	IMPLEMENTATION	JTRIG Infrastructure Team
<b>COUNTRY FILE</b>	A sub-system of JAZZ FUSION	OPERATIONAL	JTRIG Infrastructure Team
<b>TECHNO VIKING</b>	A sub-system of JAZZ FUSION	DESIGN	JTRIG Infrastructure Team
<b>JAZZ FUSION+</b>	A sub-system of JAZZ FUSION	DESIGN	JTRIG Infrastructure Team
<b>BUMBLEBEE DANCE</b>	JTRIG Operational VM/TOR architecture	OPERATIONAL	JTRIG Infrastructure Team
<b>AIR BAG</b>	JTRIG Laptop capability for field operations.	OPERATIONAL	JTRIG Infrastructure Team
<b>EXPOW</b>	GCHQ's UIA capability provided by JTRIG.	OPERATIONAL	JTRIG Infrastructure Team
<b>AXLE GREASE</b>	The covert banking link for CPG	OPERATIONAL	JTRIG Infrastructure Team
<b>POD RACE</b>	JTRIG'S MS update farm	DESIGN	JTRIG Infrastructure Team
<b>WATCHTOWER</b>	GCNET -> CERBERUS Export Gateway Interface System	OPERATIONAL	JTRIG Software Developers
<b>REAPER</b>	CERBERUS -> GCNET Import Gateway Interface System	OPERATIONAL	JTRIG Software Developers
<b>DIALd</b>	External Internet Redial and Monitor Daemon	OPERATIONAL	JTRIG Software Developers
<b>FOREST WARRIOR</b>	Desktop replacement for CERBERUS	DESIGN	JTRIG Infrastructure Team
<b>DOG HANDLER</b>	JTRIG's development network	DESIGN	JTRIG Infrastructure Team
<b>DIRTY DEVIL</b>	JTRIG'S research network	DESIGN	JTRIG Infrastructure Team

[edit] **Collection**

Tool	Description	Contacts	Status
<b>AIRWOLF</b>	YouTube profile, comment and video collection.	[REDACTED]	Beta release.
<b>ANCESTRY</b>	Tool for discovering the creation date of yahoo selectors.	JTRIG Software Developers [E]	Fully Operational.
<b>BEARTRAP</b>	Bulk retrieval of public BEBO profiles from member or group ID.	JTRIG Software Developers [E]	Fully Operational.
<b>BIRDSONG</b>	Automated posting of Twitter updates.	JTRIG Software Developers [E]	Decomissioned. Replaced by SYLVESTER.
<b>BIRDSTRIKE</b>	Twitter monitoring and profile collection. <a href="#">Click here for the User Guide.</a>	JTRIG Software Developers [E]	Fully Operational.
<b>BUGSY</b>	Google+ collection (circles, profiles etc.)	Tech Leads: [REDACTED]	In early development.
<b>DANCING BEAR</b>	obtains the locations of WiFi access points.	[Tech Lead: [REDACTED] Expert User: [REDACTED]	Fully Operational.
<b>DEVILS HANDSHAKE</b>	ECI Data Technique.	[Tech Lead: [REDACTED] Expert User: [REDACTED]	Fully Operational.
<b>DRAGON'S SNOUT</b>	Paltalk group chat collection.	Tech Leads: [REDACTED]	Beta release.
<b>EXCALIBUR</b>	acquires a Paltalk UID and/or email address from a Screen Name.	JTRIG Software Developers [E]	Fully operational (against current Paltalk version)
<b>FATYAK</b>	Public data collection from LinkedIn.	[Tech Lead: [REDACTED]	In development
<b>FUSEWIRE</b>	Provides 24/7 monitoring of Vbulletin forums for target postings/online activity. Also allows staggered postings to be made.	JTRIG Software Developers [E]	
<b>GLASSBACK</b>	Technique of getting a targets IP address by pretending to be a spammer and ringing them. Target does not need to answer.	JTRIG Software Developers [E]	Fully operational.
<b>GODFATHER</b>	Public data collection from Facebook.	[Tech Lead: [REDACTED]	Fully operational.
<b>GOODFELLA</b>	Generic framework for public data collection from Online Social Networks.	[Tech Lead: [REDACTED]	In Development (Supports RenRen and Xing).
<b>HACIENDA</b>	is a port scanning tool designed to scan an entire country or city. It uses GEOFUSION to identify IP locations. Banners and content are pulled back on certain ports. Content is put into the EARTHLING database, and all other scanned data is sent to GNE and is available through <a href="#">GLOBAL SURGE</a> and Fleximart.	NAC HACIENDA Taskers [E]	Fully operational.
<b>ICE</b>	is an advanced IP harvesting technique.	JTRIG Software Developers [E]	
<b>INSPECTOR</b>	Tool for monitoring domain information and site availability	JTRIG Software Developers [E]	Fully Operational.
<b>LANDING PARTY</b>	Tool for auditing dissemination of VIKING PILLAGE data.	JTRIG Software Developers [E]	Fully Operational.

<b>MINIATURE HERO</b>	Active skype capability. Provision of real time call records (SkypeOut and SkypetoSkype) and bidirectional instant messaging. Also contact lists.	JTRIG Software Developers	Fully operational, but note usage restrictions.
<b>MOUTH</b>	Tool for collection for downloading a user's files from Archive.org.	JTRIG Software Developers	Fully Operational.
<b>MUSTANG</b>	provides covert access to the locations of GSM cell towers.	Tech Lead: [REDACTED] Expert: [REDACTED] User: [REDACTED]	Fully Operational.
<b>PHOTON TORPEDO</b>	A technique to actively grab the IP address of an MSN messenger user.	Tech Lead: [REDACTED]	Operational, but usage restrictions.
<b>RESERVOIR</b>	Facebook application allowing collection of various information.	JTRIG Software Developers	Fully operational, but note operational restrictions.
<b>SEBACIUM</b>	An ICTR developed system to identify P2P file sharing activity of intelligence value. Logs are accessible via DIRTY RAT.	Tech Lead: [REDACTED] User: [REDACTED]	
<b>SILVER SPECTER</b>	Allows batch Nmap scanning over TOR	JTRIG Software Developers	In Development
<b>SODAWATER</b>	A tool for regularly downloading gmail messages and forwarding them onto CERBERUS mailboxes	JTRIG Software Developers	Fully Operational.
<b>SPRING BISHOP</b>	Find private photographs of targets on Facebook.	Tech Lead: [REDACTED]	
<b>SYLVESTER</b>	Framework for automated interaction / alias management on online social networks.	Tech Lead: [REDACTED]	In Development.
<b>TANNER</b>	A technical programme allowing operators to log on to a JTRIG website to grab IP addresses of Internet Cafe's.	JTRIG OSO	Replaced by HAVOK.
<b>TRACER FIRE</b>	An Office Document that grabs the targets Machine info, files, logs, etc and posts it back to GCHQ.	[REDACTED] TRACER FIRE JTRIG	In Development.
<b>VIEWER</b>	A programme that (hopefully) provides advance tip off of the kidnappers IP address for HMG personnel.	Tech Lead: [REDACTED] Expert: [REDACTED] User: [REDACTED]	Operational, but awaiting field trial.
<b>VIKING PILLAGE</b>	Distributed network for the automatic collection of encrypted/compressed data from remotely hosted JTRIG projects.	PILLAGE JTRIG Software Developers	Operational
<b>TOP HAT</b>	A version of the MUSTANG and DANCING BEAR techniques that allows us to pull back Cell Tower and WiFi locations targeted against particular areas.	Tech Lead: [REDACTED]	In development.

[edit] **Effects Capability**

JTRIG develop the majority of effects capability in GCHQ. A lot of this capability is developed on demand for specific operations and then further developed to provide weaponised capability.

Don't treat this like a catalogue. If you don't see it here, it doesn't mean we can't build it. If you involve the JTRIG operational teams at the start of your operation, you have more of a chance that we will build something for you.

For each of our tools we have indicated the state of the tool. We only advertise tools here that are either ready to fire or very close to being ready (operational requirements would re-prioritise our development). Once again, involve the JTRIG operational teams early.

Tool	Description	Status	Contacts
<b>ANGRY PIRATE</b>	is a tool that will permanently disable a target's account on their computer.	Ready to fire (but see target restrictions).	[Tech Lead: ██████████] Expert ██████████ User: ██████████
<b>ARSON SAM</b>	is a tool to test the effect of certain types of PDU SMS messages on phones / network. It also includes PDU SMS Dumb <a href="#">Fuzz testing</a> .	Ready to fire (Not against live targets, this is a R&D Tool).	[Tech Lead: ██████████] Expert User: ██████████
<b>BUMPERCAR+</b>	is an automated system developed by JTRIG CIRD to support JTRIG <b>BUMPERCAR</b> operations. BUMPERCAR operations are used to disrupt and deny Internet-based terror videos or other material. The technique employs the services provided by upload providers to report offensive materials.	Ready to fire.	JTRIG Software Developers <a href="#">↗</a>
<b>BOMB BAY</b>	is the capability to increase website hits/rankings.	In Development.	[Tech Lead: ██████████]
<b>BADGER</b>	mass delivery of email messaging to support an Information Operations campaign	Ready to fire.	JTRIG OSO <a href="#">↗</a>
<b>BURLESQUE</b>	is the capability to send spoofed SMS text messages.	Ready to fire.	JTRIG OSO <a href="#">↗</a>
<b>CANNONBALL</b>	is the capability to send repeated text messages to a single target.	Ready to fire.	JTRIG OSO <a href="#">↗</a>
<b>CLEAN SWEEP</b>	Masquerade Facebook Wall Posts for individuals or entire countries	Ready to fire (SIGINT sources required)	[Tech Lead: ██████████] Expert User: ██████████
<b>CLUMSY BEEKEEPER</b>	Some work in progress to investigate IRC effects.	NOT READY TO FIRE.	Tech Lead: ██████████ Expert ██████████ User : ██████████
<b>CHINESE FIRECRACKER</b>	Overt brute login attempts against online forums	Ready to fire.	FIRECRACKER <a href="#">↗</a>
<b>CONCRETE DONKEY</b>	is the capability to scatter an audio message to a large number of telephones, or repeatedly bomb a target number with the same message.	In development.	██████████
<b>DEER STALKER</b>	Ability to aid-geolocation of Sat Phones / GSM Phones via a silent calling to the phone.	Ready to fire.	[Tech Lead: ██████████] Expert User: ██████████
<b>GATEWAY</b>	Ability to artificially increase traffic to a website	Ready to fire.	JTRIG OSO <a href="#">↗</a>
<b>GAMBIT</b>	Deployable pocket-sized proxy server	In-development	JTRIG OSO <a href="#">↗</a>
<b>GESTATOR</b>	amplification of a given message, normally video, on popular multimedia websites (Youtube).		[Tech Lead: ?; Expert User: ██████████]
<b>GLITTERBALL</b>	Online Gaming Capabilities for Sensitive Operations. Currently Second Life.	In development.	
<b>IMPERIAL BARGE</b>	For connecting two target phone together in a call.	Tested.	[Tech Lead: ██████████] Expert ██████████ User: ██████████
<b>PITBULL</b>	Capability, under development, enabling large scale delivery of a tailored message to users of Instant Messaging services.	In development.	
<b>POISONED DAGGER</b>	Effects against Gigatribe. Built by ICTR, deployed by JTRIG.		Tech Lead: ██████████

<b>PREDATORS FACE</b>	Targeted Denial Of Service against Web Servers.		Tech Lead: [REDACTED]
<b>ROLLING THUNDER</b>	Distributed denial of service using P2P. Built by ICTR, deployed by JTRIG.		Tech Lead: [REDACTED]
<b>SCARLET EMPEROR</b>	Targeted denial of service against targets phones via call bombing.	Ready to fire.	JTRIG Software Developers [REDACTED]
<b>SCRAPHEAP CHALLENGE</b>	Perfect spoofing of emails from Blackberry targets.	Ready to fire, but see constraints.	[REDACTED]
<b>SERPENTS TONGUE</b>	for fax message broadcasting to multiple numbers.	In redevelopment.	[Tech Lead: [REDACTED]] Expert User: [REDACTED]
<b>SILENT MOVIE</b>	Targeted denial of service against SSH services.	Ready to fire.	[Tech Lead: [REDACTED]]
<b>SILVERBLADE</b>	Reporting of extremist material on DAILYMOTION.	Ready to fire.	[Tech Lead: [REDACTED]] Expert User: [REDACTED]
<b>SILVERFOX</b>	List provided to industry of live extremist material files hosted on FFUs.	Ready to fire.	[Tech Lead: [REDACTED]] Expert User: [REDACTED]
<b>SILVERLORD</b>	Disruption of video-based websites hosting extremist content through concerted target discovery and content removal.	Ready to fire.	[Tech Lead: [REDACTED]] Expert User: [REDACTED]
<b>SKYSCRAPER</b>	Production and dissemination of multimedia via the web in the course of information operations.	Ready to fire.	[Tech Lead: Section X; Expert Users: Language Team]
<b>SLIPSTREAM</b>	Ability to inflate page views on websites	Ready to fire.	JTRIG OSO [REDACTED]
<b>STEALTH MOOSE</b>	is a tool that will Disrupt target's Windows machine. Logs of how long and when the effect is active.	Ready to fire (but see target restrictions).	[Tech Lead: [REDACTED]] Expert User: [REDACTED]
<b>SUNBLOCK</b>	Ability to deny functionality to send/receive email or view material online.	Tested, but operational limitations.	[Tech Lead: Section X; Expert User: [REDACTED]]
<b>Swamp donkey</b>	is a tool that will silently locate all predefined types of file and encrypt them on a targets machine.	Ready to fire (but see target restrictions).	[Tech Lead: [REDACTED]] Expert User: [REDACTED]
<b>TORNADO ALLEY</b>	is a delivery method (Excel Spreadsheet) that can silently extract and run an executable on a target's machine.	Ready to fire (but see target restrictions).	[Tech Lead: [REDACTED]] Expert User: [REDACTED]
<b>UNDERPASS</b>	Change outcome of online polls (previously known as NUBILO)	In development.	[Tech Lead: Section X; Expert User: [REDACTED]]
<b>VIPERS TONGUE</b>	is a tool that will silently Denial of Service calls on a Satellite Phone or a GSM Phone.	Ready to fire (but see target restrictions).	[Tech Lead: [REDACTED]] Expert User: [REDACTED]
<b>WARPATH</b>	Mass delivery of SMS messages to support an Information Operations campaign	Ready to fire.	JTRIG OSO [REDACTED]

[edit] **Work Flow Management**

Tool	Description	Contacts
<b>HOME PORTAL</b>	A central hub for all JTRIG Cerberus tools	JTRIG Software Developers [REDACTED]
<b>CYBER COMMAND CONSOLE</b>	A centralised suite of tools, statistics and viewers for tracking current operations across the Cyber community.	JTRIG Software Developers [REDACTED]
<b>NAMEJACKER</b>	A web service and admin console for the translation of usernames between networks. For use with gateways and other such technologies.	JTRIG Software Developers [REDACTED]

[edit] **Analysis Tools**

Tool	Description	Contacts
<b>BABYLON</b>	is a tool that bulk queries web mail addresses and verifies whether they can be signed up for. A green tick indicates that the address is currently in use. Verification can currently be done for Hotmail and Yahoo.	JTRIG Software Developers
<b>CRYOSTAT</b>	is a JTRIG tool that runs against data held in NEWPIN. It then displays this data in a chart to show links between targets.	JTRIG Software Developers
<b>ELATE</b>	is a suite of tools for monitoring target use of the UK auction site eBay (www.ebay.co.uk). These tools are hosted on an internet server, and results are retrieved by encrypted email.	JTRIG Software Developers
<b>PRIMATE</b>	is a JTRIG tool that aims to provides the capability to identify trends in seized computer media data and metadata.	JTRIG Software Developers
<b>JEDI</b>	JTRIG will shortly be rolling out a JEDI pod to every desk of every member of an Intelligence Production Team. The challenge is to scale up to over 1,200 users whilst remaining agile, efficient and responsive to customer needs.	[Tech Lead: ██████████] Expert User: ██████████
<b>JILES</b>	is a JTRIG bespoke web browser.	[Tech Lead: ██████████] Expert User: ██████████
<b>MIDDLEMAN</b>	is a distributed real-time event aggregation, tip-off and tasking platform utilised by JTRIG as a middleware layer.	JTRIG Software Developers
<b>OUTWARD</b>	is a collection of DNS lookup, WHOIS Lookup and other network tools.	JTRIG Software Developers
<b>TANGLEFOOT</b>	is a bulk search tool which queries a set of online resources. This allows analysts to quickly check the online presence of a target.	JTRIG Software Developers
<b>SCREAMING EAGLE</b>	is a tool that processes kismet data into geolocation information	
<b>SLAMMER</b>	is a data index and repository that provides analysts with the ability to query data collected from the Internet from various JTRIG sources, such as EARTHLING, HACIENDA, web pages saved by analysts etc.	JTRIG Software Developers

[edit] **Databases**

Tool	Description	Contacts
<b>BYSTANDER</b>	is a categorisation database accessed via web service.	JTRIG Software Developers
<b>CONDUIT</b>	is a database of C2C identifiers for Intelligence Community assets acting online, either under alias or in real name.	JTRIG Software Developers
<b>NEWPIN</b>	is a database of C2C identifiers obtained from a variety of unique sources, and a suite of tools for exploring this data.	JTRIG Software Developers
<b>QUINCY</b>	is an enterprise level suite of tools for the exploitation of seized media.	[Tech Lead: ██████████] Expert Users: ██████████

[edit] **Forensic Exploitation**

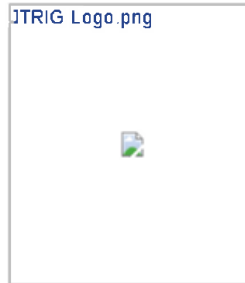
Tool	Description	Contacts
<b>BEARSCRAPE</b>	can extract WiFi connection history (MAC and timing) when supplied with a copy of the registry structure or run on the box.	[Tech Lead: ██████████] Expert User: ██████████
<b>SFL</b>	The Sigint Forensics Laboratory was developed within NSA. It has been adapted by JTRIG as its email extraction and first-pass analysis of seized media solution.	[Tech Lead: ██████████] Expert User: ██████████
<b>Snoopy</b>	is a tool to extract mobile phone data from a copy of the phone's memory (usually supplied as an image file extracted through FTK).	[Tech Lead: ██████████]
<b>MobileHoover</b>	is a tool to extract data from field forensics' reports created by Celledek, Cellebrite, XRY, Snoopy and USIM detective. These reports are transposed into a Newpin XML format to upload to Newpin.	[Tech Lead: ██████████]
<b>Nevis</b>	is a tool developed by NTAC to search disk images for signs of possible Encryption products. CMA have further developed this tool to look for signs of Steganography.	[Tech Lead: ██████████]

[edit] **Techniques**

Tool	Description	Contacts
<b>CHANGELING</b>	Ability to spoof any email address and send email under that identity	JTRIG OSO
<b>HAVOK</b>	Real-time website cloning technique allowing on-the-fly alterations	JTRIG OSO
<b>MIRAGE</b>		JTRIG OSO
<b>SHADOWCAT</b>	End-to-End encrypted access to a VPS over SSH using the TOR network	JTRIG OSO
<b>SPACE ROCKET</b>	is a programme covering insertion of media into target networks. <b>CRINKLE CUT</b> is a tool developed by ICTR-CISA to enable JTRIG track images as part of SPACE ROCKET.	Tech Lead: Expert User:
<b>RANA</b>	is a system developed by ICTR-CISA providing CAPTCHA-solving via a web service on CERBERUS. This is intended for use by <b>BUMPERCAR+</b> and possibly in future by <b>SHORTFALL</b> but anyone is welcome to use it.	Tech Lead: Expert User
<b>LUMP</b>	A system that finds the avatar name from a SecondLife AgentID	JTRIG Software Developers
<b>GURKHAS SWORD</b>	Beaconed Microsoft Office Documents to elicit a targets IP address.	JTRIG Software Developers

[edit] **Shaping and Honeypots**

Tool	Description	Contacts
<b>DEADPOOL</b>	URL shortening service	JTRIG OSO
<b>HUSK</b>	Secure one-to-one web based dead-drop messaging platform	JTRIG OSO
<b>LONGSHOT</b>	File-upload and sharing website	JTRIG OSO
<b>MOLTEN-MAGMA</b>	CGI HTTP Proxy with ability to log all traffic and perform HTTPS Man in the Middle.	JTRIG Software Developers
<b>NIGHTCRAWLER</b>	Public online group against dodgy websites	JTRIG OSO
<b>PISTRIX</b>	Image hosting and sharing website	JTRIG OSO
<b>WURLITZER</b>	Distribute a file to multiple file hosting websites.	



Category: JTRIG