

Bro Logs

app_stats.log

Statistics on usage of popular web apps

Field	Type	Description
ts	time	Measurement timestamp
ts_delta	interval	Time difference from previous measurement
app	string	Name of application (YouTube, Netflix, etc.)
uniq_hosts	count	Number of unique hosts that used app
hits	count	Number of visits to app
bytes	count	Total bytes transferred to/from app

capture_loss.log

Estimate of packet loss

Field	Type	Description
ts	time	Measurement timestamp
ts_delta	interval	Time difference from previous measurement
peer	string	Name of the Bro instance reporting loss
gaps	count	ACKs seen without seeing data being ACKed
acks	count	Total number of TCP ACKs
percent_loss	string	gaps/acks, as a percentage. Estimate of loss.

dhcp.log

DHCP lease activity

Field	Type	Description
ts	time	Timestamp of request
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
mac	string	Client's hardware address
assigned_ip	addr	Client's actual assigned IP address
lease_time	interval	IP address lease time
trans_id	count	Identifier assigned by the client; responses match

conn.log

IP, TCP, UDP and ICMP connection details

Field	Type	Description
ts	time	Timestamp
uid	string	Unique ID of Connection
id.orig_h	addr	Originating endpoint's IP address (AKA ORIG)
id.orig_p	port	Originating endpoint's TCP/UDP port (or ICMP code)
id.resp_h	addr	Responding endpoint's IP address (AKA RESP)
id.resp_p	port	Responding endpoint's TCP/UDP port (or ICMP code)
proto	transport_proto	Transport layer protocol of connection
service	string	Dynamically detected application protocol, if any
duration	interval	Time of last packet seen – time of first packet seen
orig_bytes	count	Originator payload bytes; from sequence numbers if TCP
resp_bytes	count	Responder payload bytes; from sequence numbers if TCP
conn_state	string	Connection state (see conn.log:conn_state table)
local_orig	bool	If conn originated locally T; if remotely F. If Site::local_nets empty, always unset.
missed_bytes	count	Number of missing bytes in content gaps
history	string	Connection state history (see conn.log:history table)
orig_pkts	count	Number of ORIG packets
orig_ip_bytes	count	Number of ORIG IP bytes (via IP total_length header field)
resp_pkts	count	Number of RESP packets
resp_ip_bytes	count	Number of RESP IP bytes (via IP total_length header field)
tunnel_parents	set	If tunneled, connection UID of encapsulating parent (s)
orig_cc	string	ORIG GeoIP Country Code
resp_cc	string	RESP GeoIP Country Code

dns.log

DNS query/response details

Field	Type	Description
ts	time	Timestamp of the DNS request
uid	string	Unique id of the connection
id	record	ID record with orig/resp host/port. See conn.log
proto	proto	Protocol of DNS transaction – TCP or UDP
trans_id	count	16 bit identifier assigned by DNS client; responses match
query	string	Domain name subject of the query
qclass	count	Value specifying the query class
qclass_name	string	Descriptive name of the query class (e.g. C_INTERNET)
qtype	count	Value specifying the query type
qtype_name	string	Name of the query type (e.g. A, AAAA, PTR)
rcode	count	Response code value in the DNS response
rcode_name	string	Descriptive name of the response code (e.g. NOERROR, NXDOMAIN)
QR	bool	Was this a query or a response? T = response, F = query
AA	bool	Authoritative Answer. T = server is authoritative for query
TC	bool	Truncation. T = message was truncated
RD	bool	Recursion Desired. T = request recursive lookup of query
RA	bool	Recursion Available. T = server supports recursive queries
Z	count	Reserved field, should be zero in all queries & responses
answers	vector	List of resource descriptions in answer to the query
TTLs	vector	Caching intervals of the answers
rejected	bool	Whether the DNS query was rejected by the server

conn.log: conn_state

State	Meaning
S0	Connection attempt seen, no reply
S1	Connection established, not terminated (0 byte counts)
SF	Normal establish & termination (>0 byte counts)
REJ	Connection attempt rejected
S2	Established, ORIG attempts close, no reply from RESP.
S3	Established, RESP attempts close, no reply from ORIG.
RSTO	Established, ORIG aborted (RST)
RSTR	Established, RESP aborted (RST)
RSTOS0	ORIG sent SYN then RST; no RESP SYN-ACK
RSTRH	RESP sent SYN-ACK then RST; no ORIG SYN
SH	ORIG sent SYN then FIN; no RESP SYN-ACK ("half-open")
SHR	RESP sent SYN-ACK then FIN; no ORIG SYN
OTH	No SYN, not closed. Midstream traffic. Partial connection.

conn.log: history

Orig UPPERCASE, Resp lowercase, uniq-ed

Letter	Meaning
S	a SYN without the ACK bit set
H	a SYN-ACK ("handshake")
A	a pure ACK
D	packet with payload ("data")
F	packet with FIN bit set
R	packet with RST bit set
C	packet with a bad checksum
I	Inconsistent packet (Both SYN & RST)

dnp3.log

Distributed Network Protocol (industrial control)

Field	Type	Description
ts	time	Timestamp
uid	interval	Connection unique id
id	string	ID record with orig/resp host/port. See conn.log
fc_request	string	The name of the request function message
fc_reply	string	The name of the reply function message
iin	count	Response's "internal indication number"

files.log

File analysis results

Field	Type	Description
ts	time	Timestamp when file was first seen
fuid	string	identifier for a single file
tx_hosts	set	if transferred via network, host(s) that sourced the data
rx_hosts	set	if transferred via network, host(s) that received the data
conn_uids	set	Connection UID(s) over which the file was transferred
source	string	An identification of the source of the file data
depth	count	Depth of file related to source; eg: SMTP MIME attachment depth; HTTP depth of the request
analyzers	set	Set of analysis types done during file analysis
mime_type	string	Libmagic sniffed file type
filename	string	If available, filename from source; frequently the "Content-Disposition" headers in network protocols
duration	interval	The duration the file was analyzed for
local_orig	bool	If transferred via network, did data originate locally?
is_orig	bool	If transferred via network, was file sent by the originator?
seen_bytes	count	Number of bytes provided to file analysis engine
total_bytes	count	Total number of bytes that should comprise the file
missing_bytes	count	Number of bytes in the file stream missed; eg: dropped packets
overflow_bytes	count	Number of not all-in-sequence bytes in the file stream delivered to file analyzers due to reassembly buffer overflow
timedout	bool	If the file analysis time out at least once per file
parent_fuid	string	ID associated with a container file from which this one was extracted as a part of the analysis
md5/sha1/sha256	string	MD5/SHA1/SHA256 hash of file, if enabled
extracted	string	Local filename of extracted files, if enabled

ftp.log

FTP request/reply details

Field	Type	Description
ts	time	Command timestamp
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
user	string	Username for current FTP session
password	string	Password for current FTP session
command	string	Command issued by the client
arg	string	Command argument if present
mime_type	string	Libmagic sniffed file type if there's a file transfer
file_size	count	Size of transferred file
reply_code	count	Reply code from server in response to the command
reply_msg	string	Reply message from server in response to the command
data_channel	record	Information about the data channel (orig, resp, is passive)
fuid	string	File unique ID

http.log

request/reply details

Field	Type	Description
ts	time	Timestamp of request
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
trans_depth	count	Pipelined depth into the connection
method	string	HTTP Request verb: GET, POST, HEAD, etc.
host	string	Value of the HOST header
uri	string	URI used in the request
referrer	string	Value of the "referer" header
user_agent	string	Value of the User-Agent header
request_body_len	count	Actual uncompressed content size of the data transferred from the client
response_body_len	count	Actual uncompressed content size of the data transferred from the server
status_code	count	Status code returned by the server
status_msg	string	Status message returned by the server
info_code	count	Last seen 1xx info reply code by server
info_msg	string	Last seen 1xx info reply message by server
filename	string	Via the Content-Disposition server header
tags	set	Indicators of various attributes discovered
username	string	If basic-auth is performed for the request
password	string	If basic-auth is performed for the request
proxied	set	Headers that might indicate a proxied request
orig_fuids	vector	An ordered vector of file unique IDs from orig
orig_mime_types	vector	An ordered vector of mime types from orig
resp_fuids	vector	An ordered vector of file unique IDs from resp
resp_mime_types	vector	An ordered vector of mime types from resp

intel.log

Hits on indicators from the intel framework

Field	Type	Description
ts	time	Timestamp of hit
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
fuid	string	The UID for a file associated with this hit, if any
file_mime_type	string	A mime type if the hit is related to a file
file_desc	string	Additional context for file, if available
seen.indicator	string	The intelligence indicator
seen.indicator_type	string	The type of data the indicator represents
seen.where	string	Where the data was discovered
sources	set	Sources which supplied data for this match

irc.log

IRC communication details

Field	Type	Description
ts	time	Timestamp
uid	string	Unique id
id	record	ID record with orig/resp host/port. See conn.log
nick	string	Nickname given for this connection
user	string	Username given for this connection
command	string	Command given by the client
value	string	Value for the command given by the client
addl	string	Any additional data for the command
dcc_file_name	string	DCC filename requested
dcc_file_size	count	Size of the DCC transfer as indicated by the sender
dcc_mime_type	string	Sniffed mime type of the file
fuid	string	File unique ID

Bro Logs

known_certs.log

Observed local Certs; logged 1xDay

Field	Type	Description
ts	time	Measurement timestamp
host	addr	Address that offered the certificate
port_num	port	If server, port that server listening on
subject	string	Certificate subject
issuer_subject	string	Certificate issuer subject
serial	string	Serial number for the certificate

known_services.log

Observed local services; logged 1xDay

Field	Type	Description
ts	time	Timestamp
host	addr	Host address on which the service is running
port_num	port	Port number on which the service is running
port_proto	transport_proto	Transport-layer protocol service uses
service	set	Set of protocol(s) that match the service's connection payloads

modbus.log

PLC requests (industrial control)

Field	Type	Description
ts	time	Timestamp of request
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
func	string	Function message that was sent
exception	string	Exception if there was a failure

notice.log

Logged notices

Field	Type	Description
ts	time	Timestamp
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
fuid	string	File unique identifier
file_mime_type	string	Libmagic sniffed file type
file_desc	string	Additional context for file, if available
proto	transport_proto	Transport protocol
note	string	The type of the notice
msg	string	Human readable message for the notice
sub	string	Sub-message for the notice
src	addr	Source address
dst	addr	Destination address
p	port	Associated port, if any
n	count	Associated count or status code
peer_descr	string	Description for peer that raised this notice
actions	set	Actions applied to this notice
suppress_for	interval	Length of time dupes should be suppressed
dropped	bool	If the src IP was blocked

known_hosts.log

Observed local active IPs; logged 1xDay

Field	Type	Description
ts	time	Timestamp first seen
host	addr	IP Address of host

radius.log

Radius authentication details

Field	Type	Description
ts	time	Timestamp of the detection
uid	string	Unique ID for the connection
id	conn_id	ID record with orig/resp host/port. See conn.log
username	string	The username, if present
mac	string	MAC address, if present
remote_ip	addr	Remtoe IP address, if present
connect_info	string	Connect info, if present
result	string	Successful or failed authentication
logged	bool	Whether this has already been logged & ignored

reporter.log

Bro internal errors and warnings

Field	Type	Description
ts	time	Message timestamp
level	string	Message severity (Info, warning, error, etc.)
message	string	Message text
location	string	The script location where tevent occurred, if available

smtp.log

SMTP transactions

Field	Type	Description
ts	time	Timestamp when the message was first seen
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
trans_depth	count	Depth of message transaction if multiple messages transferred
helo	string	Contents of the HELO header
mailfrom	string	Contents of the MAIL FROM header
rcptto	set	Contents of the RCPT TO header
date	string	Contents of the DATE header
from	string	Contents of the FROM header
to	set	Contents of the TO header
reply_to	string	Contents of the ReplyTo header
msg_id	string	Contents of the MsgID header
in_reply_to	string	Contents of the In-Reply-To header
subject	string	Contents of the Subject header
x_originating_ip	addr	Contents of the X-Originating-IP header
first_received	string	Contents of the first Received header
second_received	string	Contents of the second Received header
last_reply	string	Last message that the server sent to the client
path	vector	Message transmission path, extracted from the headers
user_agent	string	Value of the User-Agent header from the client
tls	bool	Connection has switched to using TLS
fuids	vector	File unique IDs seen attached to this message
is_webmail	bool	Indicates if the message was sent through a webmail interface

signatures.log

Matches from the signature framework

Field	Type	Description
ts	time	Timestamp of match
src_addr	addr	Host triggering the signature match event
src_port	port	Host port on which the match occurred
dst_addr	addr	Host which was sent the matching payload
dst_port	port	Port which was sent the matching payload
note	string	Notice associated with the signature event
sig_id	string	Name of the signature that matched
event_msg	string	More descriptive message of the event
sub_msg	string	Extracted payload data or extra message
sig_count	count	Number of sigs
host_count	count	Number of hosts

snmp.log

SNMP communication

Field	Type	Description
ts	time	Timestamp tunnel was detected
uid	string	Connection unique id
id	conn_id	ID record with orig/resp host/port. See conn.log
duration	interval	Amount of time between first/latest packet in session
version	string	The version of SNMP being used
community	string	Community string of the first SNMP packet associated w/ session; v1 & v2c only
get_requests	count	Number of variable bindings in GetRequest/Next
get_bulk_requests	count	Number of variable bindings in GetBulkRequest PDU
get_responses	count	Number of variable bindings in GetResponse/Response PDUs
set_requests	count	Number of variable bindings in SetRequest PDUs
display_string	string	System description of the SNMP responder endpoint
up_since	time	Time the SNMP responder claims it has been up since

ssl.log

SSL handshakes (v2.2 only; v2.3 x509.log)

Field	Type	Description
ts	time	Timestamp when the SSL connection was detected
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
version	string	SSL version that the server offered
cipher	string	SSL cipher suite that the server chose
server_name	string	Value of the Server Name Indicator SSL extension
session_id	string	Session ID offered by the client for session resumption
subject	string	Subject of the X.509 cert offered by the server
issuer_subject	string	Signer Subject of the cert offered by the server
not_valid_before	time	NotValidBefore field value from the server cert
not_valid_after	time	NotValidAfter field value from the server cert
last_alert	string	Last alert that was seen during the connection
client_subject	string	Subject of the X.509 cert offered by the client
clnt_issuer_subject	string	Subject of the signer of the cert offered by the client
cert_hash	string	MD5 hash of the raw server certificate
validation_status	vector	Certificate validation for this connection

stderr.log / stdout.log

Description

Error / output logging - LogAscii::output_to_stdout = F &redef

software.log

Software identified by the software framework

Field	Type	Description
ts	time	Timestamp of the detection
host	addr	IP address running the software
host_p	port	Port on which the software is running (for servers)
software_type	string	Type of software (e.g. HTTP::SERVER)
name	string	Name of the software
version.major	count	Major version number of the software
version.minor	count	Minor version number of the software
version.minor2	count	Minor subversion number of the software
version.minor3	count	Minor update number of the software
version.addl	string	Additional version string (e.g. beta42)
unparsed_version	string	The full, unparsed version of the software

ssh.log

SSH handshakes

Field	Type	Description
ts	time	Timestamp when the SSH connection was detected
uid	string	Connection unique ID
id	record	ID record with orig/resp host/port. See conn.log
status	string	If the login was heuristically guessed to be a "success" or a "failure".
direction	string	Outbound or inbound connection
client	string	Software string from the client
server	string	Software string from the server
resp_size	count	Amount of data returned by the server

socks.log

SOCKS proxy requests

Field	Type	Description
ts	time	Timestamp of request
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
version	count	Protocol version of SOCKS
user	string	Username for proxy, if available
status	string	Server status for the attempt using proxy
request.host	addr	Client requested address
request.name	string	Client requested name
request_p	port	Client requested port
bound.host	addr	Server bound address
bound.name	string	Server bound name
bound_p	port	Server bound port

syslog.log

Syslog messages

Field	Type	Description
ts	time	Timestamp when the message was seen
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
proto	transport_protocol	Protocol over which message was seen. Only UDP is currently supported.
facility	string	Syslog facility for the message
severity	string	Syslog severity for the message
message	string	The plain text syslog message

Bro Logs

traceroute.log

Hosts running traceroute

Field	Type	Description
ts	time	Timestamp traceroute was detected
src	addr	Address initiating the traceroute
dst	addr	Destination address of the traceroute
proto	string	Protocol used for the traceroute

tunnel.log

Details of encapsulating tunnels

Field	Type	Description
ts	time	Timestamp tunnel was detected
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
tunnel_type	string	The type of tunnel (e.g. Teredo, IP)
action	string	The activity that occurred (discovered, closed)

x509.log

x509 Certificate Analyzer Output

Field	Type	Description
ts	time	Timestamp of the detection
id	String	File id of this certificate
certificate .	record	Certificate details
.version	count	Version number
.serial	string	Serial number
.issuer	string	Certificate issuer
.not_valid_before	time	Timestamp before when certificate is not valid
.not_valid_after	time	Timestamp after when certificate is not valid
.key_alg	string	Name of the key algorithm
.sig_alg	string	Name of the signature algorithm
.key_type	string	Key type, if key parseable openssl (rsa, dsa or ec)
.key_length	count	Key length in bits
.exponent	string	Exponent, if RSA-certificate
.curve	string	Curve, if EC-certificate
san.	record	Subject Alternative Name
.dns	string_vec	List of DNS entries in the SAN
.uri	string_vec	List of URI entries in the SAN
.email	string_vec	List of email entries in the SAN
.ip	addr_vec	List of IP entries in the SAN
.other_fields	bool	True if certificate contained other, unrecognized fields
basicconstraints.	record	Basic constraints extension of the certificate
.ca	bool	CA fla set?
.path_len	count	Maximum path length
logcert	bool	T (present if policy/protocols/ssl/log-hostcerts-only.bro)

bro one liners

Field
bro -C -r file.pcap local extract-all-files.bro "Site::local_nets += {10.0.0.0/8, 172.16.0.0/12, 192.168.0.0/16}"
Hey bro, ignore checksums and then read in file.pcap using the current local.bro and also load extract-all-files.bro ADDING the following subnets to your list of local_nets.
less conn.log bro-cut -d awk '{split(\$0, a, "\t"); if (a[5] == "10.2.2.2") print \$0}'
First print out the conn.log and send the output to bro-cut; bro-cut replace the unix epoch time column with a human readable date (-d) and send the output to awk; awk, chop up that string at each tab and put each column into an array a; if the fifth element, a[5] is "10.2.2.2" please print the whole log line.
bro -C -r http-partial-content-transfer.pcap policy/misc/dump-events.bro "PacketFilter::default_capture_filter = \"host 54.230.103.187\" >> dump-events-host.log
Hey bro, read in this pcap and also load dump-events.bro, running with a BPF so you only look at traffic with this host and then append the output into this file.
cat conn.log bro-cut id.orig_h id.resp_h orig_bytes resp_bytes missed_bytes awk '\$5 > 10000'
Let's look for connections with high packet loss.

weird.log

Anomalies and protocol violations

Field	Type	Description
ts	time	Timestamp of message
uid	string	Connection unique id
id	record	ID record with orig/resp host/port. See conn.log
name	string	The name of the weird that occurred
addl	string	Additional information accompanying the weird, if any
notice	bool	Indicate if this weird was also turned into a notice
peer	string	The peer that generated this weird

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Command	Description
q	Quit
up/down arrow	Move up/down one line
left/right arrow	Move left/right ½ page; requires <i>less -S</i>
page up/down	Move up/down one page
g	Go to the first line
G	Go to the last line
F	Go to the last line; display any new lines. <i>Ctrl-C to exit</i>
/SSL	Search- go to the next line containing 'SSL'
/!SSL	Search- go to the next line NOT containing 'SSL'
?malware	Search- go to the previous line containing 'SSL'
n	Repeat a previous search
N	Repeat a previous search in the opposite direction

git commands

Command	Description
git clone [url]	Downloads a project and the entire version history
git status	Lists all new or modified files to be committed
git diff	Shows file differences not yet staged
git add [file]	Snapshots the file in preparation for versioning
git diff --staged	Shows file differences between staging & last version.
git reset [file]	Unstages the file and preserves contents
git commit	Records snapshot; add <i>-m "msg"</i> for comment
git branch	Show all branches in current repo; <i>-a</i> for all branches
git branch [name]	Create a new branch
git checkout [branch]	Switches to the specified branch & updates the working directory.
git merge [branch]	Comines the specified branch's history into the current branch.

Putting it all together

Command	Description
aka "pipe"	Pass the output of one command to another command.
grep SSL notice.log tail -n 30	Display the last 30 lines in notice.log that contain "SSL".
grep SSL notice.log grep -i google	Display lines in notice.log containing SSL and google in any case (upper/lower mix).
cat data.txt sort	Display data.txt, sorted alphabetically.
cat data.txt sort uniq	Display data.txt, sorted alphabetically, with duplicates removed.
cat data.txt sort uniq -c	Display data.txt, sorted alphabetically, with duplicates removed and a count of each occurrence.
cat data.txt sort uniq -c sort -n	Display, sort, count of distinct, ordered from least to most
cat notice.log bro-cut note sort uniq -c sort -n	What are the most popular notices?
cat http.log bro-cut -d ts method host uri	Only display timestamp, method, host and URI and convert timestamp to human readable.

Contact Critical Stack

Command	Description
Phone:	202-559-5200
Email:	info@CriticalStack.com
Web:	http://www.CriticalStack.com
Git:	https://github.com/CriticalStack/
Twitter:	@CriticalStack
pgp	0xc255d63501b80df9

Getting Around

Command	Description
cd logs	Move to the logs directory, which is located in the current directory.
cd /logs	Move to the logs directory, which is located in the top-level directory.
cd ..	Move up one directory.
cd ~	Move to your home directory ("tilde" is to the left of the 1 key).
cd -	Move to the directory you were previously in.

Viewing and searching files

Command	Description
cat conn.log	Display data.txt
cat *.log	Display all files that end in .log
head conn.log	Display the first 10 lines of conn.log
head -n 20 conn.log	Display the first 20 lines of conn.log
tail conn.log	Display the last 10 lines of conn.log
tail -n 30 conn.log	Display the last 30 lines of conn.log
tail -F conn.log	Display last 10 lines & continue new lines Note: <i>Ctrl + C to exit</i>
grep SSL notice.log	Display lines in notice.log that contain SSL
grep -v SSL notice.log	Display lines in notice.log with out SSL
grep 'mal ware' data.txt	Search item w/ spaces using single quotes.
grep -F 1.2.3.4	Search for phrases with periods
grep -c dosexec files.log	How many lines in files.log contain dosexec
less conn.log	Display conn.log in less (see right)
less -S conn.log	Display with side-to-side scrolling

Consulting • Training • Support
for the Bro Platform

Developing high performance
solutions around the Bro Platform.