Bro 2.3 Logs

 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

Type Description







reporter.log Bro internal errors and warnings

Field	Туре	Description
ts	time	Message timestamp, if available (0 otherwise)
level	string	Message severity (Info, warning, error, etc.)
message	string	Message text
location	string	The script location where the event occurred, if available

ssl.log

ocsp_response

uid & id

SSL handshakes				
Field	Туре	Description		
ts	time	Timestamp when the SSL connection was detected		
uid & id		Underlying connection info - See conn.log		
version	string	SSL version that the server offered		
cipher	string	SSL cipher suite that the server chose		
curve	string	Elliptic curve the server chose if using ECDH/ECDHE		
server_name	string	Value of the Server Name Indicator SSL extension		
session_id	string	Session ID offered by client for session resumption		
last_alert	string	Last alert that was seen during the connection		
established	bool	Was this connection established successfully?		
cert_chain	vector	Chain of certificates offered by the server		
cert_chain_fuids	vector	File unique IDs for certs in cert_chain . See files.log		
client_cert_chain	vector	Chain of certificates offered by the client		
client_cert_chain_fuids	vector	File UIDs for certs in client_cert_chain . See files.log		
subject	string	Subject of the X.509 cert offered by the server		
issuer	string	Subject of the signer of the server cert		
client_subject	string	Subject of the X.509 cert offered by the client		
client_issuer_subject	string	Subject of the signer of the client cert		
validation_status	string	Certificate validation result for this handshake		
ocsp_status	string	Result of OCSP validation for this handshake		

time Timestamp when the SSH connection was detected

string If the login was heuristically guessed to be "success" or "failure".

Underlying connection info - See conn.log

tunnel.log Details of encapsulating tunnels

Field	Type	Description	
ts	time	Timestamp tunnel was detected	
uid & id		Underlying connection info - See conn.log	
tunnel_type	string	The type of tunnel (e.g. Teredo, IP)	
action	string	The activity that occurred (discovered, closed)	

string OCSP response as a string

weird.log Anomalies and protocol violations

		-
Field	Туре	Description
ts	time	Timestamp of message
uid & id		Underlying connection info - 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

x509.log SSL certificate details

Field	Туре	Description
ts	time	Time when the cert was seen
id	string	File unique ID. See files.log
certificate.version	count	Version number
certificate.serial	string	Serial number
certificate.issuer	string	Issuer
certificate.not_valid_before	time	Time before when the cert is invalid
certificate.not_valid_after	time	Time after when the cert is invalid
certificate.key_alg	string	Name of the key algorithm
certificate.sig_alg	string	Name of the signature algorithm
certificate.key_type	string	Key type (either RSA, DSA or EC)
certificate.key_length	count	Key length, in bits
certificate.exponent	string	Exponent, if RSA
certificate.curve	string	Curve, if EC
san.dns	string_vec	List of DNS entries in Subject Alternative Name (SAN)
san.uri	string_vec	List of URI entries in SAN
san.email	string_vec	List of email entries in SAN
san.ip	addr_vec	List of IP entries in SAN
basic_constraints.ca	bool	CA flag set?
basic_constraints.path_len	count	Maximum path length

Other Logs

	Other Logs
Log	Description
app_stats	Statistics on usage of popular web apps
cluster	Diagnostics for cluster operation
communication	Diagnostics for inter-process communications
dpd	Diagnostics for dynamic protocol detection
known_certs	Observed local SSL certs. Each is logged once/day
known_devices	Observed local devices. Each is logged once/day
known_hosts	Observed local active IPs. Each is logged once/day
known_services	Observed local services. Each is logged once/day
loaded_scripts	A list of scripts that were loaded at startup
packet_filter	Any filters to limit the traffic being analyzed
stats	Diagnostics such as mem usage, packets seen, etc.
syslog	Syslog messages
traceroute	Hosts running traceroute

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Bro 2.3 Logs





conn.log IP, TCP, UDP and ICMP connection details

Field	Туре	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	proto	Transport layer protocol of connection
service	string	Dynamically detected application protocol, if any
duration	interval	Connection length
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 & id		Underlying connection info - 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 (T) or a response (F)?	
AA	bool	T: server is authoritative for query	
TC	bool	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) Established, RESP aborted (RST) ORIG sent SYN then RST; no RESP SYN-ACK		
RSTR			
RSTOS0			
RSTRH	RESP sent SYN-ACK then RST; no ORIG SYN		
SH	ORIG sent SYN then FIN; no RESP SYN-ACK ("half-open") RESP sent SYN-ACK then FIN; no ORIG SYN		
SHR			
ОТН	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
Н	a SYN-ACK ("handshake")
Α	a pure ACK
D	packet with payload ("data")
F	packet with FIN bit set
R	packet with RST bit set
С	packet with a bad checksum
I	Inconsistent packet (Both SYN & RST)

capture_loss.log Estimate of packet loss

Field	Туре	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	Туре	Description
ts time		Timestamp of request
uid & id		Underlying connection info - 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

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dnp3.log Distributed Network Protocol (industrial control)

Field	Туре	Description
ts	time	Timestamp
uid & id		Underlying connection info - 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.logFile analysis results

time Timestamp when file was first seen fuid string Unique 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 The file type, as determined by Bro's signatures filename string If available, filename from source; frequently the "Content-Disposition" headers in network protocols duration linterval 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/sha2/sha256 extracted string Local filename of extracted files, if enabled	File analysis results			
fuid string Unique 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 The file type, as determined by Bro's signatures 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 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 hash of file, if enabled	Field	Туре	Description	
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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 MD5/SHA1/SHA256 hash of file, if enabled	filename	string		
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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 MD5/SHA1/SHA256 hash of file, if enabled	total_bytes	count	Total number of bytes that should comprise the file	
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 MD5/SHA1/SHA256 hash of file, if enabled	missing_bytes	count		
parent_fuid string ID associated with a container file from which this one was extracted as a part of the analysis md5/sha1/ sha256 MD5/SHA1/SHA256 hash of file, if enabled	overflow_bytes	count	delivered to file analyzers due to reassembly buffer	
was extracted as a part of the analysis md5/sha1/ string sha256 MD5/SHA1/SHA256 hash of file, if enabled	timedout	bool	If the file analysis time out at least once per file	
sha256	parent_fuid	string		
extracted string Local filename of extracted files, if enabled		string	MD5/SHA1/SHA256 hash of file, if enabled	
	extracted	string	Local filename of extracted files, if enabled	

ftp.log FTP request/reply details

ii ioquoodiopiy dotaiio			
Туре	Description		
time	Command timestamp		
	Underlying connection info - See conn.log		
string	Username for current FTP session		
string	Password for current FTP session		
string	Command issued by the client		
string	Command argument if present		
string	Libmagic sniffed file type if there's a file transfer		
count	Size of transferred file		
count	Reply code from server in response to the command		
string	Reply message from server in response to the command		
record	Information about the data channel (orig, resp, is passive)		
string	File unique ID		
	Type time string string string string count count string record		

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http.log HTTP request/reply details

Field	Туре	Description
ts	time	Timestamp of request
uid & id		Underlying connection info - 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	Туре	Description
ts	time	Timestamp of hit
uid & id		Underlying connection info - 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	Туре	Description
ts	time	Timestamp
uid & id		Underlying connection info - 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 2.3 Logs

notice.log Logged notices

Field	Туре	Description
ts	time	Timestamp
uid & id		Underlying connection info - See conn.log
fuid	string	File unique identifier
file_mime_type	string	The file type, as determined by Bro's signatures
file_desc	string	Additional context for file, if available
proto	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
р	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

radius.log RADIUS authentication attempts

Type	Description
time	Timestamp of the authentication attempt
	Underlying connection info - See conn.log
string	The username of the user attempting to auth
string	The MAC address of the client (e.g. for wireless)
addr	The IP address of the client (e.g. for VPN)
string	Additional connect information, if available
string	Whether the attempt succeeded or failed
S	tring tring ddr tring

smtp.log SMTP transactions

Field	Type	Description
ts	time	Timestamp when the message was first see
uid & id		Underlying connection info - See conn.log
trans_depth	count	Transaction depth if there are multiple msg
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
irst_received	string	Contents of the first Received header
second_received	string	Contents of the second Received header
ast_reply	string	Last server to client message
oath	vector	Message transmission path, from headers
user_agent	string	Value of the client User-Agent header
fuids	vector	File unique IDs seen attached to this msg
is_webmail	bool	If the message was sent via webmail





modbus.log PLC requests (industrial control)

Field	Туре	Description
ts	time	Timestamp of request
uid & id		Underlying connection info - See conn.log
func	string	Function message that was sent
exception	string	Exception if there was a failure

snmp.log SNMP messages

	_	
Field	Type	Description
ts	time	Timestamp when the message was first seen
uid & id		Underlying connection info - See conn.log
duration	interval	Time between the first and last seen packet
version	string	SNMP version (v1, v2c, v3)
community	string	The community string of the first SNMP packet
get_requests	count	Number of GetRequest/GetNextRequest packets
get_bulk_requests	count	Number of GetBulkRequest packets
get_responses	count	Number of GetResponse/Response packets
set_requests	count	Number of SetRequest packets
display_string	string	A system description of the responder
up_since	time	Timestamp the responder has been up since

socks.log SOCKS proxy requests

Field	Туре	Description
ts	time	Timestamp of request
uid & id		Underlying connection info - See conn.log
version	count	Protocol version of SOCKS
user	string	Username for the 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

software.logSoftware identified by the software framework

Field	Туре	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

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