Week 1 Threat Intelligence

Jurjen de Jonge 500731921 Hogeschool van Amsterdam

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Contents

1	\mathbf{Ass}	ignments	2
	1.1	What is the first HTTP traffic is showing?	2
	1.2	Identify all traffic generated using Mozilla compatible browsers .	2
	1.3	Explain what is happening from frame 9 to frame 41	2
	1.4	Explain why frame 42 is out of order?	2
	1.5	dentify all HTTP servers which support encrypted communica-	
		tions (i.e. ssl)	3
	1.6	Identify Server Software Version running	3
		1.6.1 69.22.167.239	3
		1.6.2 18.7.22.69	3
		1.6.3 66.150.96.119	3
	1.7	Find all Google searches recorded in the given network traffic	3

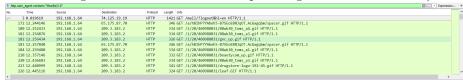
1. Assignments

1.1 What is the first HTTP traffic is showing?

The first HTTP traffic is a sign out of a Google account in frame 3

1.2 Identify all traffic generated using Mozilla compatible browsers

The traffic can be found by applying a filter that looks for the "Mozilla/5.0" in the user agent. That filter will be "http.user_agent contains "Mozilla/5.0""



1.3 Explain what is happening from frame 9 to frame 41

A DNS lookup is being sent over UDP in frame 9. Requests are made to get the IP addresses of Google servers. After getting the ip addresses a TCP handshake is being initiated and encrypted channel is being opened between the computer and a Google server.

1.4 Explain why frame 42 is out of order?

The handshake [FIN,ACK] has already been sent and is being resend by the server. This might have occurred because the google server might not have received the ACK so it resend it's [FIN,ACK] top packet.

1.5 dentify all HTTP servers which support encrypted communications (i.e. ssl)

The http server will send information about it self including if it supports secure ssl connections. This can be looked for by applying the filter http.server contains "mod_ssl". This will filter out all server that do not include mod_ssl being enabled in its configuration.

1.6 Identify Server Software Version running

This information can be found by looking at an HTTP reply for and looking at the Server header. The filter to find traffic coming or originating from an server is "ip.addr ==66.150.96.119"

$1.6.1 \quad 69.22.167.239$

Apache/1.3.41 (Unix) mod_ssl/2.8.31 OpenSSL/0.9.8a

1.6.2 18.7.22.69

MIT Web Server Apache/1.3.26 Mark/1.5 (Unix) mod_ssl/2.8.9 OpenSSL/0.9.7c

1.6.3 66.150.96.119

Apache/2.0.54 (Debian GNU/Linux) mod_fastcgi/2.4.2 mod_ssl/2.0.54 OpenSSL/0.9.7e

1.7 Find all Google searches recorded in the given network traffic

It's possible to look for traffic going to a google domain and has the "search" parameter in the url. This parameter exists in all google searches. The filter that can be used for this is http.request.uri contains "search" && http.host contains "google"