

Digital Forensics

2021SM_CS_6419_FRE1A

Assignment-02

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Student number:
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1. What computer is serving as DHCP server? How do you know?

192.168.100.5 is the DHCP server, in the "Parameter" tab 192.168.100.5 is the Destination host.

NetworkMiner 2.4

File Tools Help

Select a network adapter in the list --

Hosts (19) Files (1) Images Messages Credentials (1) Sessions (1954) DNS (5) Parameters (71) Keywords Anomalies

Filter keyword: **DHCP** Case sensitive ExactPhrase Any column Clear Apply

Parameter name	Parameter value	Frame number	Source host	Source port	Destination host	Destination port	Timestamp	Details
DHCP Option 12 Hostname	xp	3	192.168.100.26 [xp] (Windows)	UDP 68	192.168.100.5 []	UDP 67	2011-10-07 18:10:50 UTC	DHCP Option
DHCP Option 12 Hostname	xp	6	0.0.0.0 [xp] [www] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:10:58 UTC	DHCP Option
DHCP Option 12 Hostname	xp	8	192.168.100.26 [xp] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:10:58 UTC	DHCP Option
DHCP Option 12 Hostname	ubuntu	28	192.168.100.27 [ubuntu] [ubuntu.local] (Linux)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:11:21 UTC	DHCP Option
DHCP Option 12 Hostname	www	57	192.168.100.28 [www] (Linux)	UDP 68	192.168.100.5 []	UDP 67	2011-10-07 18:11:35 UTC	DHCP Option
DHCP Option 12 Hostname	www	69	0.0.0.0 [xp] [www] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:11:36 UTC	DHCP Option
DHCP Option 12 Hostname	www	71	192.168.100.28 [www] (Linux)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:11:36 UTC	DHCP Option
DHCP Option 12 Hostname	xp	5216	0.0.0.0 [xp] [www] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:22:30 UTC	DHCP Option
DHCP Option 12 Hostname	xp	5218	192.168.100.26 [xp] [XP] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:22:30 UTC	DHCP Option
DHCP Option 60 Vendor code	MSFT 5.0	3	192.168.100.26 [xp] (Windows)	UDP 68	192.168.100.5 []	UDP 67	2011-10-07 18:10:50 UTC	DHCP Option
DHCP Option 60 Vendor code	MSFT 5.0	6	0.0.0.0 [xp] [www] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:10:58 UTC	DHCP Option
DHCP Option 60 Vendor code	MSFT 5.0	8	192.168.100.26 [xp] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:10:58 UTC	DHCP Option
DHCP Option 60 Vendor code	MSFT 5.0	5216	0.0.0.0 [xp] [www] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:22:30 UTC	DHCP Option
DHCP Option 60 Vendor code	MSFT 5.0	5218	192.168.100.26 [xp] [XP] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:22:30 UTC	DHCP Option
DHCP Option 81 Domain	xp	3	192.168.100.26 [xp] (Windows)	UDP 68	192.168.100.5 []	UDP 67	2011-10-07 18:10:50 UTC	DHCP Option
DHCP Option 81 Domain	xp	4	192.168.100.5 []	UDP 67	192.168.100.26 [xp] (Windows)	UDP 68	2011-10-07 18:10:50 UTC	DHCP Option
DHCP Option 81 Domain	xp	8	192.168.100.26 [xp] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:10:58 UTC	DHCP Option
DHCP Option 81 Domain	xp	9	192.168.100.5 []	UDP 67	255.255.255.255	UDP 68	2011-10-07 18:10:58 UTC	DHCP Option
DHCP Option 81 Domain	xp	5218	192.168.100.26 [xp] [XP] (Windows)	UDP 68	255.255.255.255	UDP 67	2011-10-07 18:22:30 UTC	DHCP Option
DHCP Option 81 Domain	xp	5219	192.168.100.5 [] (Windows)	UDP 67	255.255.255.255	UDP 68	2011-10-07 18:22:30 UTC	DHCP Option

Case Panel

Filename MD5

Network... d83a55...

2. What other services is the DHCP server running? How do you know?

By adding the “192.168.100.5” filter keyword we can see that 192.168.100.5 is also running Microsoft FTP Service as well.

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File Tools Help

-- Select a network adapter in the list --

Hosts (19) Files (1) Images Messages Credentials (1) Sessions (1554) DNS (5) Parameters (71) Keywords Anomalies

Filter keyword: **192.168.100.5** Case sensitive ExactPhrase Any column Clear Apply

Parameter name	Parameter value	Frame number	Source host	Source port	Destination host	Destination port	Timestamp
150	Opening ASCII mode data connection for ...	5051	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:21:03 UTC
150	Opening ASCII mode data connection for ...	5145	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:21:19 UTC
200	PORT command successful.	5048	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:21:03 UTC
200	PORT command successful.	5142	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:21:19 UTC
215	Windows_JIT	5019	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:20:54 UTC
220	Microsoft FTP Service	4345	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:20:37 UTC
221		5175	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:21:27 UTC
226	Transfer complete.	5062	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:21:03 UTC
226	Transfer complete.	5158	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:21:20 UTC
230	Anonymous user logged in.	4980	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:20:54 UTC
331	Anonymous access allowed, send identity...	5016	192.168.100.5 [(Windows)]	TCP 21	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	2011-10-07 18:20:49 UTC
DHCP Option 12 Hostname	xp	3	192.168.100.26 [xp] [xp] (Windows)	UDP 68	192.168.100.5 []	UDP 67	2011-10-07 18:10:50 UTC
DHCP Option 12 Hostname	www	67	192.168.100.28 [www] [Linux]	UDP 68	192.168.100.5 []	UDP 67	2011-10-07 18:11:35 UTC
DHCP Option 60 Vendor code	MSFT 5.0	3	192.168.100.26 [xp] [xp] (Windows)	UDP 68	192.168.100.5 []	UDP 67	2011-10-07 18:10:50 UTC
DHCP Option 81 Domain	xp.	3	192.168.100.26 [xp] [xp] (Windows)	UDP 68	192.168.100.5 []	UDP 67	2011-10-07 18:10:50 UTC
DHCP Option 81 Domain		4	192.168.100.5 []	UDP 67	192.168.100.26 [xp] [xp] (Windows)	UDP 68	2011-10-07 18:10:50 UTC
DHCP Option 81 Domain		9	192.168.100.5 []	UDP 67	255.255.255.255	UDP 68	2011-10-07 18:10:58 UTC
DHCP Option 81 Domain		9	192.168.100.5 [(Windows)]	UDP 67	255.255.255.255	UDP 68	2011-10-07 18:22:30 UTC
LIST		5050	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	192.168.100.5 [(Windows)]	TCP 21	2011-10-07 18:21:03 UTC
PASS	yeah@night.com	5014	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	192.168.100.5 [(Windows)]	TCP 21	2011-10-07 18:20:54 UTC
PORT	192.168.100.27,144,208	5047	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	192.168.100.5 [(Windows)]	TCP 21	2011-10-07 18:21:03 UTC
PORT	192.168.100.27,218,58	5141	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	192.168.100.5 [(Windows)]	TCP 21	2011-10-07 18:21:19 UTC
QUIT		5174	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	192.168.100.5 [(Windows)]	TCP 21	2011-10-07 18:21:27 UTC
RETR	Budget.txt	5144	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	192.168.100.5 [(Windows)]	TCP 21	2011-10-07 18:21:19 UTC
SYST		5018	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	192.168.100.5 [(Windows)]	TCP 21	2011-10-07 18:20:54 UTC
USER	anonymous	4979	192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)	TCP 45949	192.168.100.5 [(Windows)]	TCP 21	2011-10-07 18:20:49 UTC

Case Panel

Filename MD5
Network... d3ca55..

3. what computer (refer by OS name and last octet of IP address) is running a web server?

192.168.100.28 (Linux 2.4.xx (61.11%) Linux (16.67%) Mandrake 9.2 (Linux 2.4.xx) (11.11%) Linux Fedora Core 1 (11.11%) 2.6.17) is the webserver because the Web Server Banner is 1 : TCP 80 : Apache/2.2.16 (Ubuntu)

192.168.100.28 [www] [192.168.100.28] (Linux)
IP: 192.168.100.28
MAC: 000C291509D5
NIC Vendor: VMware, Inc.
MAC Age: 2003-01-21
Hostname: www, 192.168.100.28
OS: Linux
Ettercap: Linux 2.4.xx (61.11%) Linux (16.67%) Mandrake 9.2 (Linux 2.4.xx) (11.11%) Linux Fedora Core 1 (11.11%)
p0f (NetSA): Linux recent 2.4 (2) (Linux) (100.00%)
Satorn DHCP: Linux - Linux 2.6 (72.50%) Linux - Linux 3.2 (22.50%) Windows - Windows XP (5.00%)
Satorn TCP: Linux - Linux 2.4 (54.76%) Iomega StoreCenter Pro ix4-200r (16.67%) NETGEAR WNR3500L (4.76%) Linux - Red Hat Enterprise Linux 3.0 (4.76%) Linux - PCLinuxOS (4.76%) Linux - Linux 2.6 (4.76%) Linux - ESX 3.0 (4.76%) Lin
TTL: 64 (distance: 0)
Open TCP Ports: 23 22 80 (Http)
Sent: 1030 packets (42,726 Bytes), 0.00% cleartext (0 of 0 Bytes)
Received: 1048 packets (52,659 Bytes), 0.00% cleartext (0 of 0 Bytes)

NetworkMiner 2.4

File Tools Help

--- Select a network adapter in the list ---

Hosts (19) Files (1) Images Messages Credentials (1) Sessions (1954) DNS (5) Parameters (71) Keywords Anomalies

Sort Hosts On: IP Address (ascending)

- MAC Age: 2003-01-21
- Hostname:
- OS: Windows
- TTL: 128 (distance: 0)
- Open TCP Ports: 1025 80 445 21 (FtpControl) 1026 1028 1031 135
- Sent: 1049 packets (47,470 Bytes), 0.00% cleartext (0 of 0 Bytes)
- Received: 1071 packets (49,211 Bytes), 0.00% cleartext (0 of 0 Bytes)
- Incoming sessions: 5
- Outgoing sessions: 2
- Host Details
- 192.168.100.26 [xp] [xp.] [XP] (Windows)
- 192.168.100.27 [Ubuntu] [Ubuntu.local] (Other)
- 192.168.100.28 [www] [192.168.100.28] (Linux)
 - IP: 192.168.100.28
 - MAC: 000C291509D5
 - NIC Vendor: VMware, Inc.
 - MAC Age: 2003-01-21
 - Hostname: www, 192.168.100.28
 - OS: Linux
 - TTL: 64 (distance: 0)
 - Open TCP Ports: 23 22 80 (Http)
 - Sent: 1030 packets (42,726 Bytes), 0.00% cleartext (0 of 0 Bytes)
 - Received: 1048 packets (52,659 Bytes), 0.00% cleartext (0 of 0 Bytes)
 - Incoming sessions: 6
 - Outgoing sessions: 0
 - Host Details
 - Queried IP Addresses : 192.168.100.5
 - Web Server Banner 1 : TCP 80 : Apache/2.2.16 (Ubuntu)
 - Device Category : Linux
 - Previous IP 1 : 192.168.100.28

Which computer(s) accessed this webserver?

192.168.100.26 is accessing this web server.

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File Tools Help

--- Select a network adapter in the list ---

Hosts (19) Files (1) Images Messages Credentials (1) Sessions (1954) DNS (5) Parameters (71) Keywords Anomalies

Filter keyword: server

Parameter name	Parameter value	Frame number	Source host	Source port	Destination host	Destination port	Timestamp
Server	Apache/2.2.16 (Ubuntu)	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [xp] [xp.] (XP) (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
Server	Apache/2.2.16 (Ubuntu)	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [xp] [xp.] (XP) (Windows)	TCP 1206	2011-10-07 18:18:36 UTC

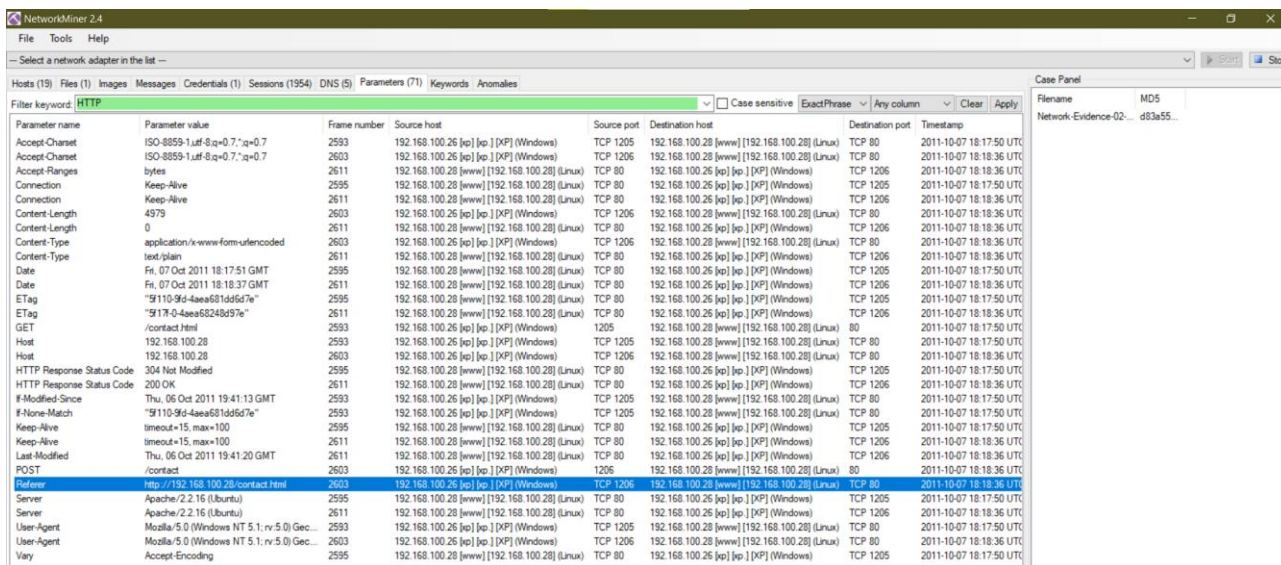
Case Panel

Filename MD5

Network... d33a55...

How do you know a webpage was accessed? What was the file name of the web page accessed?

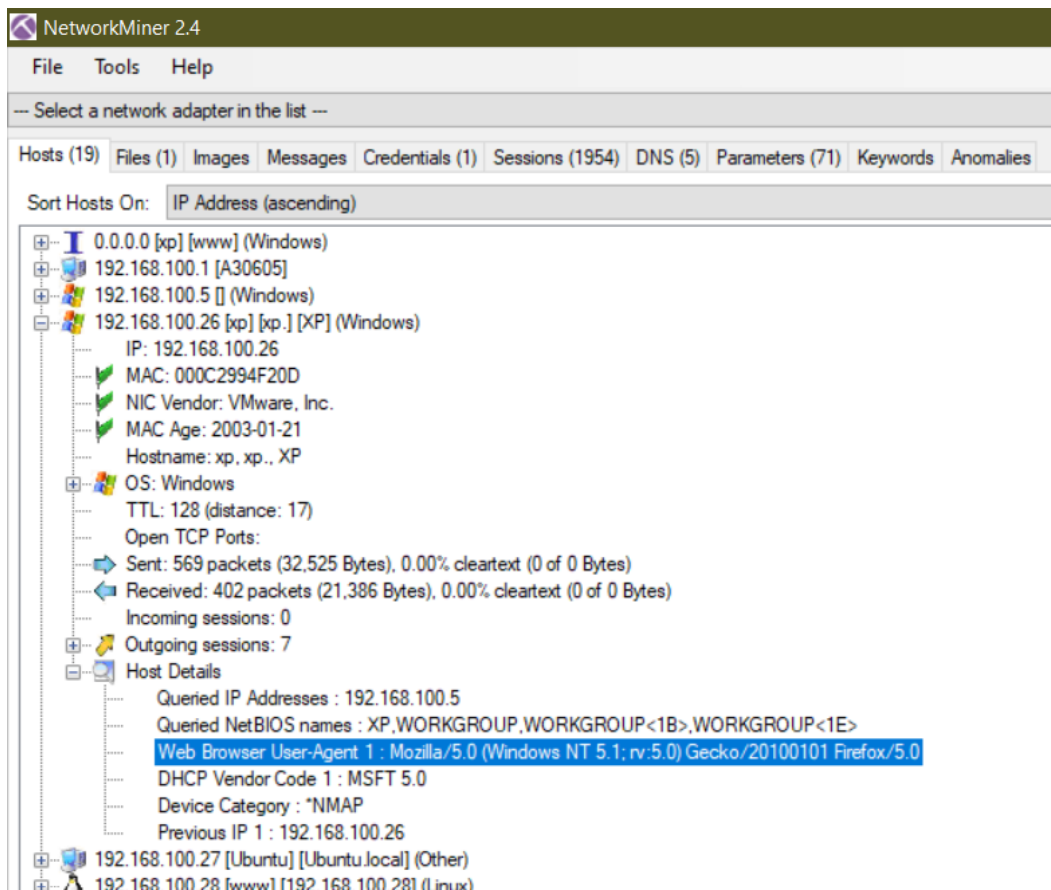
By adding the “HTTP” filter keyword we can see that 192.168.100.26 is accessing a webpage “http://192.168.100.28/contact.html”



Parameter name	Parameter value	Frame number	Source host	Source port	Destination host	Destination port	Timestamp
Accept-Charset	ISO-8859-1,utf-8;q=0.7;q=0.7	2593	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:17:50 UTC
Accept-Charset	ISO-8859-1,utf-8;q=0.7;q=0.7	2603	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:18:36 UTC
Accept-Ranges	bytes	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
Connection	Keep-Alive	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
Connection	Keep-Alive	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
Content-Length	4979	2603	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:18:36 UTC
Content-Type	application/x-www-form-urlencoded	2611	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:18:36 UTC
Date	Fri, 07 Oct 2011 18:17:51 GMT	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
Date	Fri, 07 Oct 2011 18:18:37 GMT	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
ETag	"9f110-9fd4ee681dd6d7e"	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
ETag	"9f110-9fd4ee681dd6d7e"	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
GET	/contact.html	2593	192.168.100.26 [ep] [XPF] (Windows)	1205	192.168.100.28 [www] [192.168.100.28] (Linux)	80	2011-10-07 18:17:50 UTC
Host	192.168.100.28	2593	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:17:50 UTC
Host	192.168.100.28	2603	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:18:36 UTC
HTTP Response Status Code	304 Not Modified	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
HTTP Response Status Code	200 OK	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
If-Modified-Since	Thu, 06 Oct 2011 19:41:13 GMT	2593	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:17:50 UTC
If-None-Match	"9f110-9fd4ee681dd6d7e"	2593	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:17:50 UTC
Keep-Alive	timeout=15, max=100	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
Keep-Alive	timeout=15, max=100	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
Last-Modified	Thu, 06 Oct 2011 19:41:20 GMT	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
POST	/contact	2603	192.168.100.26 [ep] [XPF] (Windows)	1206	192.168.100.28 [www] [192.168.100.28] (Linux)	80	2011-10-07 18:18:36 UTC
Request	http://192.168.100.28/contact.html	2593	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:17:50 UTC
Server	Apache/2.2.16 (Ubuntu)	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
Server	Apache/2.2.16 (Ubuntu)	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
User-Agent	Mozilla/5.0 (Windows NT 5.1; rv:5.0) Gecko/20100101 Firefox/5.0	2593	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:17:50 UTC
User-Agent	Mozilla/5.0 (Windows NT 5.1; rv:5.0) Gecko/20100101 Firefox/5.0	2603	192.168.100.26 [ep] [XPF] (Windows)	TCP 1206	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:18:36 UTC
Vary	Accept-Encoding	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [ep] [XPF] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC

What web browser was the user running?

192.168.100.26 is using Web Browser User-Agent 1: Mozilla/5.0 (Windows NT 5.1; rv:5.0) Gecko/20100101 Firefox/5.0



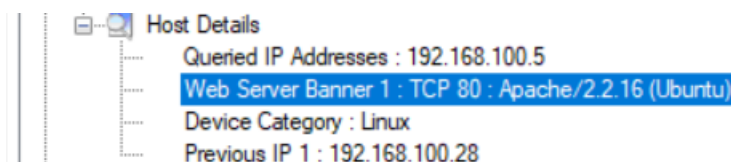
4. At what time did the access occur?

2011-10-07 18:18:36 UTC

sep-Alive	timeout=15, max=100	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [xp] [xp] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
sep-Alive	timeout=15, max=100	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [xp] [xp] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
last-Modified	Thu, 06 Oct 2011 19:41:20 GMT	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [xp] [xp] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
OSt	/contact	2603	192.168.100.26 [xp] [xp] (Windows)	1206	192.168.100.28 [www] [192.168.100.28] (Linux)	80	2011-10-07 18:18:36 UTC
server	http://192.168.100.28/contact.html	2603	192.168.100.26 [xp] [xp] (Windows)	TCP 1206	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:18:36 UTC
server	Apache/2.2.16 (Ubuntu)	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [xp] [xp] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC
server	Apache/2.2.16 (Ubuntu)	2611	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [xp] [xp] (Windows)	TCP 1206	2011-10-07 18:18:36 UTC
ser-Agent	Mozilla/5.0 (Windows NT 5.1; rv:5.0) Geo...	2593	192.168.100.26 [xp] [xp] (Windows)	TCP 1205	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:17:50 UTC
ser-Agent	Mozilla/5.0 (Windows NT 5.1; rv:5.0) Geo...	2603	192.168.100.26 [xp] [xp] (Windows)	TCP 1206	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	2011-10-07 18:18:36 UTC
ary	Accept-Encoding	2595	192.168.100.28 [www] [192.168.100.28] (Linux)	TCP 80	192.168.100.26 [xp] [xp] (Windows)	TCP 1205	2011-10-07 18:17:50 UTC

5. What webserver application was running? (include version number)

Apache/2.2.16 (Ubuntu)



6. what did the attacker do once on the FTP server?

The attacker used the following commands:

USER to send the “anonymous” send username.

PASS to send the “yeah@right.com” password.

SYST to return system type.

LIST to list remote files.

PORT to open a data port.

PORT to open a data port.

RETR to retrieve the “Budget.txt” remote file.

QUIT to terminate the connection.

Filter keyword	FTP		<input type="checkbox"/> Case sensitive	ExactPhrase	Any column	Clear	Apply	
Parameter name	Parameter value	Frame number	Source host	Source port	Destination host	Destinatio...	Timestamp	Details
220	Microsoft FTP Service	4945	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:20:37 UTC	FTP Response
331	Anonymous access allowed, send identity (e-mai...	4980	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:20:49 UTC	FTP Response
USER	anonymous	4979	192.168.100.27 [Ubuntu] [Ubuntu...	TCP 45949	192.168.100.5 [] (Windows)	TCP 21	2011-10-07 18:20:49 UTC	FTP Request
215	Windows_NT	5019	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:20:54 UTC	FTP Response
230	Anonymous user logged in.	5016	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:20:54 UTC	FTP Response
PASS	yeah@right.com	5014	192.168.100.27 [Ubuntu] [Ubuntu...	TCP 45949	192.168.100.5 [] (Windows)	TCP 21	2011-10-07 18:20:54 UTC	FTP Request
SYST		5018	192.168.100.27 [Ubuntu] [Ubuntu...	TCP 45949	192.168.100.5 [] (Windows)	TCP 21	2011-10-07 18:20:54 UTC	FTP Request
150	Opening ASCII mode data connection for /bin/ls.	5051	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:21:03 UTC	FTP Response
200	PORT command successful.	5048	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:21:03 UTC	FTP Response
226	Transfer complete.	5062	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:21:03 UTC	FTP Response
LIST		5050	192.168.100.27 [Ubuntu] [Ubuntu...	TCP 45949	192.168.100.5 [] (Windows)	TCP 21	2011-10-07 18:21:03 UTC	FTP Request
PORT	192.168.100.27,144,208	5047	192.168.100.27 [Ubuntu] [Ubuntu...	TCP 45949	192.168.100.5 [] (Windows)	TCP 21	2011-10-07 18:21:03 UTC	FTP Request
150	Opening ASCII mode data connection for Budge...	5145	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:21:19 UTC	FTP Response
200	PORT command successful.	5142	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:21:19 UTC	FTP Response
PORT	192.168.100.27,218,58	5141	192.168.100.27 [Ubuntu] [Ubuntu...	TCP 45949	192.168.100.5 [] (Windows)	TCP 21	2011-10-07 18:21:19 UTC	FTP Request
RETR	Budget.txt	5144	192.168.100.27 [Ubuntu] [Ubuntu...	TCP 45949	192.168.100.5 [] (Windows)	TCP 21	2011-10-07 18:21:19 UTC	FTP Request
226	Transfer complete.	5158	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:21:20 UTC	FTP Response
221		5175	192.168.100.5 [] (Windows)	TCP 21	192.168.100.27 [Ubuntu] [Ubunt...	TCP 45949	2011-10-07 18:21:27 UTC	FTP Response
QUIT		5174	192.168.100.27 [Ubuntu] [Ubuntu...	TCP 45949	192.168.100.5 [] (Windows)	TCP 21	2011-10-07 18:21:27 UTC	FTP Request

7. How many commands were run on the ftp server?

8: 1.USER, 2. PASS, 3. SYST, 4. LIST, 5. PORT, 6. PORT, 7. RETR, 8. QUIT.

--- Select a network adapter in the list ---	
Hosts (19)	Files (1)
Images	Messages
Credentials (1)	Sessions (1954)
DNS (5)	
Filter keyword: FTP	
Parameter name	Parameter value
220	Microsoft FTP Service
331	Anonymous access allowed, send identity (e-mai...
USER	anonymous
215	Windows_NT
230	Anonymous user logged in.
PASS	yeah@right.com
SYST	
150	Opening ASCII mode data connection for /bin/ls.
200	PORT command successful.
226	Transfer complete.
LIST	
PORT	192,168,100,27,144,208
150	Opening ASCII mode data connection for Budge...
200	PORT command successful.
PORT	192,168,100,27,218,58
RETR	Budget.txt
226	Transfer complete.
221	
QUIT	

8. What username and password were used to access the ftp server?

“anonymous” as username and “yeah@right.com” as the password.

9. Form what computer was the ftp server accessed?

From 192.168.100.27

10. Data and time?

2011-10-7 18:20:37 UTC

Timestamp

2011-10-07 18:20:37 UTC

11. What file was downloaded from the ftp server?

Budget.txt

12. To which computer was this file downloaded?

192.168.100.27

13. In your opinion, how technically sophisticated is the attacker?
Provide evidence to support your claim.

Well, it doesn't really matter how technically sophisticated he was, he stole the file he needed and that's all that matters. We don't have any personal information from him just a MAC address and a fake email address.

