Lab Report

1. Result of tcpdump in Linux (Kali)

Figure 1. tcpdump results

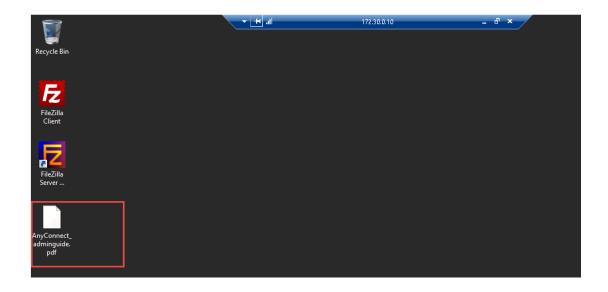
```
| Student@TargetLinuxOl:~
| File Edit View Search Terminal Help | 20:37:45.465791 | IP 172.30.6.11.3389 > 172.30.6.2.1073 : Flags [P.], seq 7654:7696, ack 121, win 1248, length 42 20:37:45.467466 | IP 172.30.6.2.11673 > 172.30.6.1.13389 : Flags [P.], seq 171.818, ack 7696, win 764, length 6 20:37:45.673132 | IP 172.30.0.2.11673 > 172.30.6.1.13389 : Flags [P.], seq 121:181, ack 7696, win 764, length 6 20:37:45.675455 | IP 172.30.6.11.3389 > 172.30.6.2.1673 : Flags [.], ack 181, win 1248, length 6 20:37:46.690310 | IP 172.30.6.2.11.3389 > 172.30.6.2.1673 : Flags [.], ack 181, win 1248, length 6 20:37:47.66.90345 | IP 172.30.6.2.11.3389 > 172.30.6.2.1673 : Flags [.], ack 181, win 1248, length 6 20:37:47.044347 | IP 172.30.6.2.11.3389 > 172.30.6.2.1673 : Flags [.], ack 241, win 1248, length 6 20:37:47.044451 | IP 172.30.6.2.11.3389 > 172.30.6.2.1673 : Flags [.], ack 391, win 1248, length 6 20:37:47.049457 | IP 172.30.6.2.11.3389 > 172.30.6.2.1673 : Flags [.], ack 391, win 1248, length 6 20:37:47.089958 | IP 172.30.6.2.113389 | 172.30.6.2.1673 : Flags [.], ack 391, win 1248, length 6 20:37:47.089958 | IP 172.30.6.2.1673 > 172.30.6.2.113389 : Flags [.], ack 391, win 764, length 6 20:33:40.024455 | IP 172.30.6.2.1673 > 172.30.6.2.1673 : Flags [.], ack 391, win 764, length 6 20:33:40.02456 | IP 172.30.6.2.1673 > 172.30.6.2.1673 + IP 182.50.2.0245 | IP 182.50.2.0245 |
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Note: because the tcpdump scan result is too long, so here we just show the first part of the result.

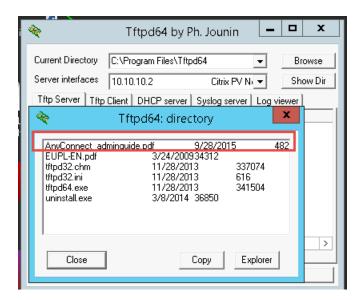
Explanation:

Tcpdump is a powerful tool provided by most of operating systems and it is used to capture packets over the network. We can use this tool to analyze potential threats and make information security baselines.

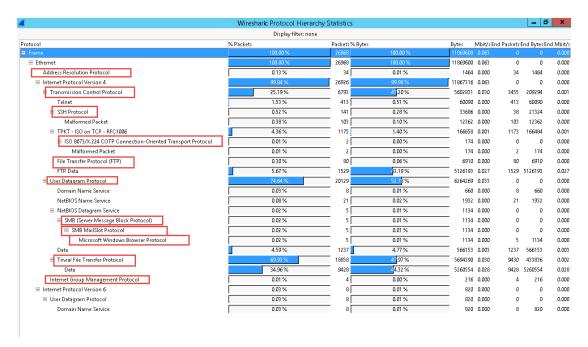
2. AnyConnect_adminguide.pdf on the targetWindows01 desktop



3. Transferred file in the Tftp64 directory



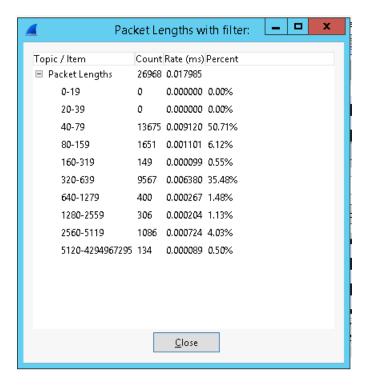
4. Protocol Hierarchy Statistics



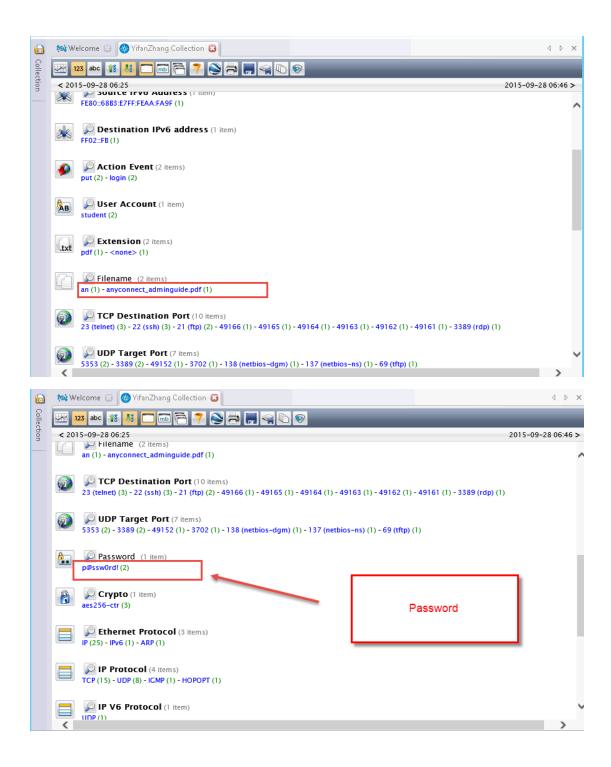
Explanation:

This picture shows the overall protocol hierarchy and from it we can see that there are 11 protocols are used in all captured packets.

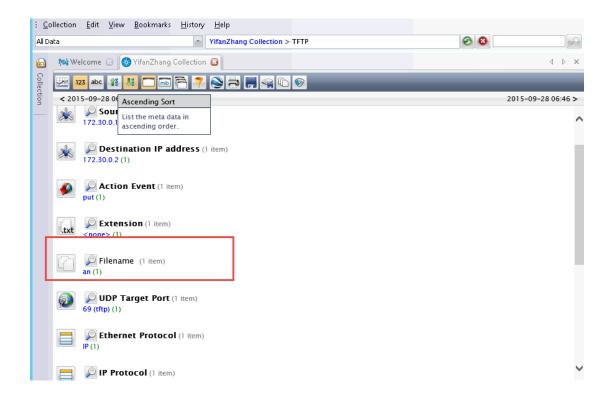
5. Packet Lengths distribution



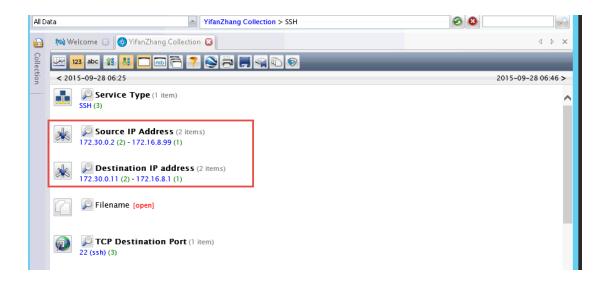
6. Password and filename used in the FTP transfer

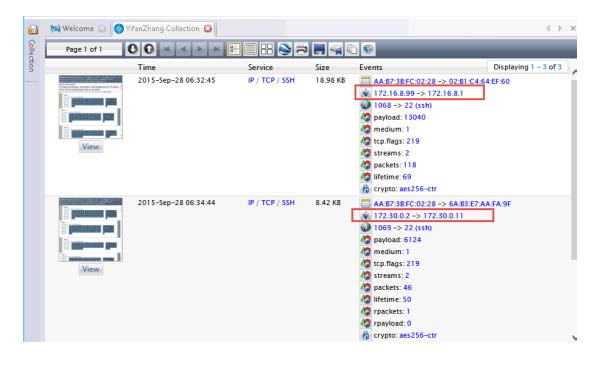


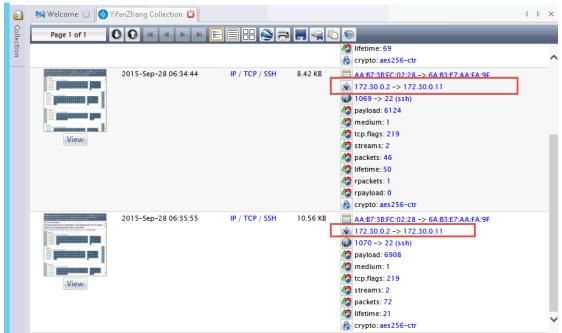
7. Filename used in the TFTP file transfer



8. IP addresses for the SSH sessions







Explanation:

From the above three pictures, we can see that there are total 3 ssh sessions and 4 IP addresses involved. Their IP addresses are 172.30.0.2, 172.30.0.11, 172.16.8.99 and 172.16.8.1.