LetsDefend: Http Basic Auth

The following writeup is for HTTP Basic Auth on LetsDefend, it involves investigating a pcap using Wireshark.

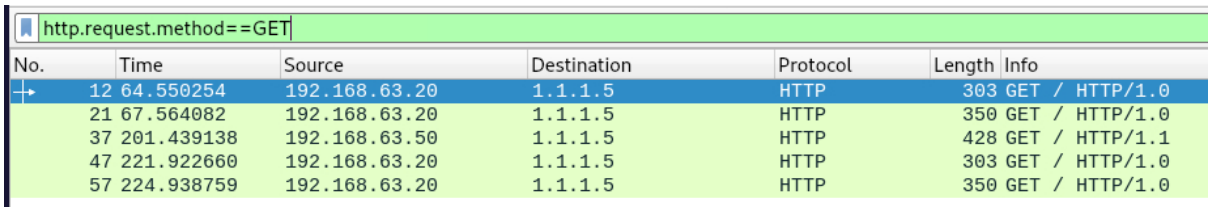
Scenario: We receive a log indicating a possible attack, can you gather information from the .pcap file?

How many HTTP GET requests are in pcap?

If you are using tshark, you can simply enter the following command that filters for HTTP GET requests and counts the number of lines (aka counts the number of GET requests:

```
tshark -n -r webserver.em0.pcap -Y 'http.request.method==GET' | wc -l
5
```

Alternatively, just use Wireshark:



What is the server operating system?

If you follow the TCP or HTTP stream of any of these requests, you can see that the web serving is running on FreeBSD:

```
HTTP/1.1 401 Authorization Required
Date: Thu, 20 Jan 2011 07:36:27 GMT
Server: Apache/2.2.15 (FreeBSD) DAV/2 mod_ssl/2.2.15 OpenSSL/0.9.8n
WWW-Authenticate: Basic realm="Restricted"
Content-Length: 401
Connection: close
Content-Type: text/html; charset=iso-8859-1
```

What is the name and version of the web server software?

```
Server: Apache/2.2.15
```

What is the version of OpenSSL running on the server?

```
OpenSSL/0.9.8n
```

What is the client's user-agent information?

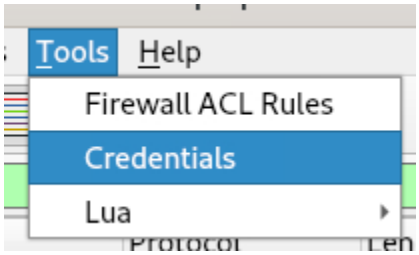
If you look at the packet details pane, you can see the User-Agent string in any of the HTTP requests:

Lynx/2.8.7rel.1 libwww-FM/2.14 SSL-MM/1.4.1 OpenSSL/0.9.8n

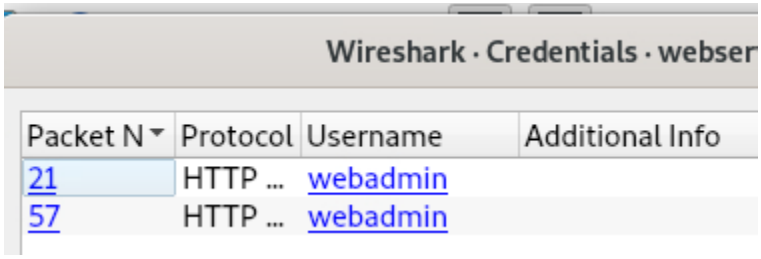
What is the username used for Basic Authentication?

We can use the http.authbasic display filter to see basic authentication attempts:

Alternatively, you can navigate to Tools > Credentials:



And here you will see the packet numbers associated with basic authentication:



The username is webadmin

What is the user password used for Basic Authentication?

The password is W3b4Dm1n