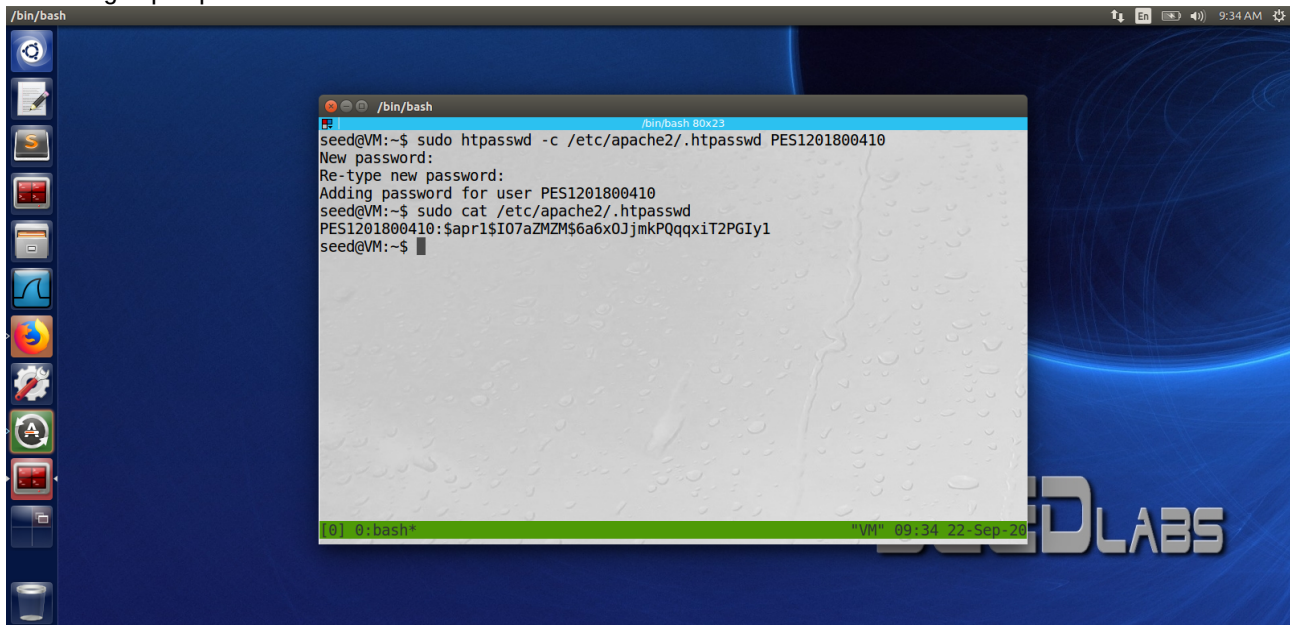


PES1201800410 sem V roll no 24 Prashanth A R

Setting up apache server with auth

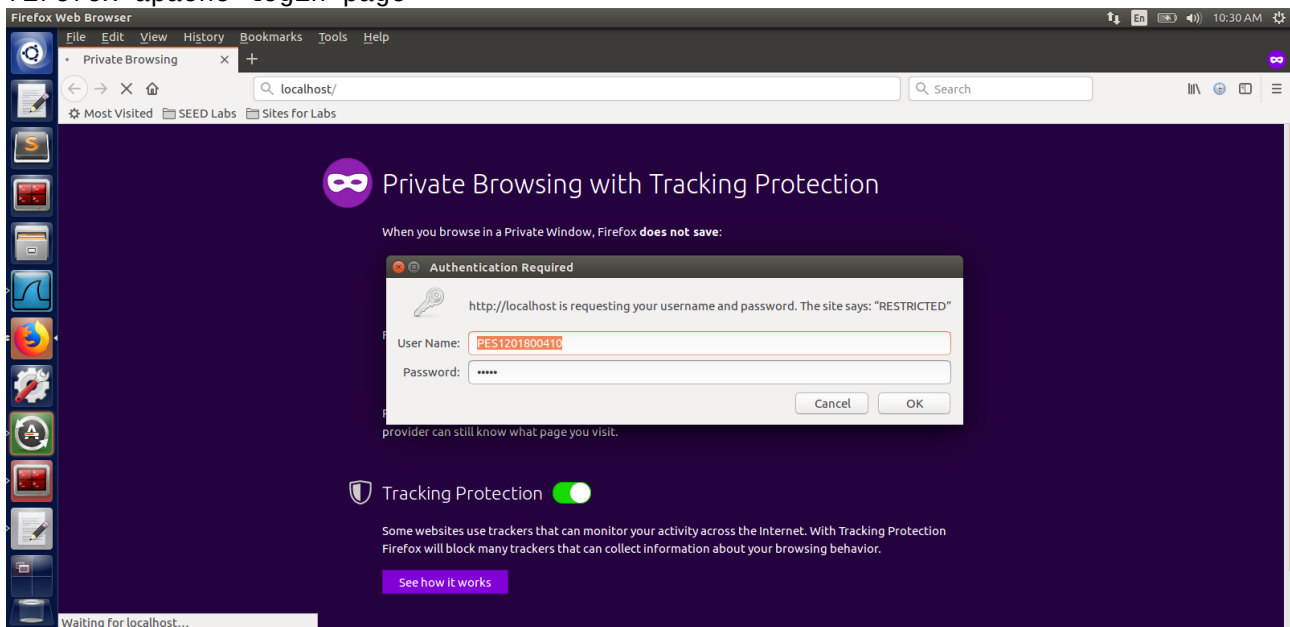


```
/bin/bash
seed@VM:~$ sudo htpasswd -c /etc/apache2/.htpasswd PES1201800410
New password:
Re-type new password:
Adding password for user PES1201800410
seed@VM:~$ sudo cat /etc/apache2/.htpasswd
PES1201800410:$apr1$I07aZMZM$6a6x0JmkPQqqxiT2PGIy1
seed@VM:~$
```

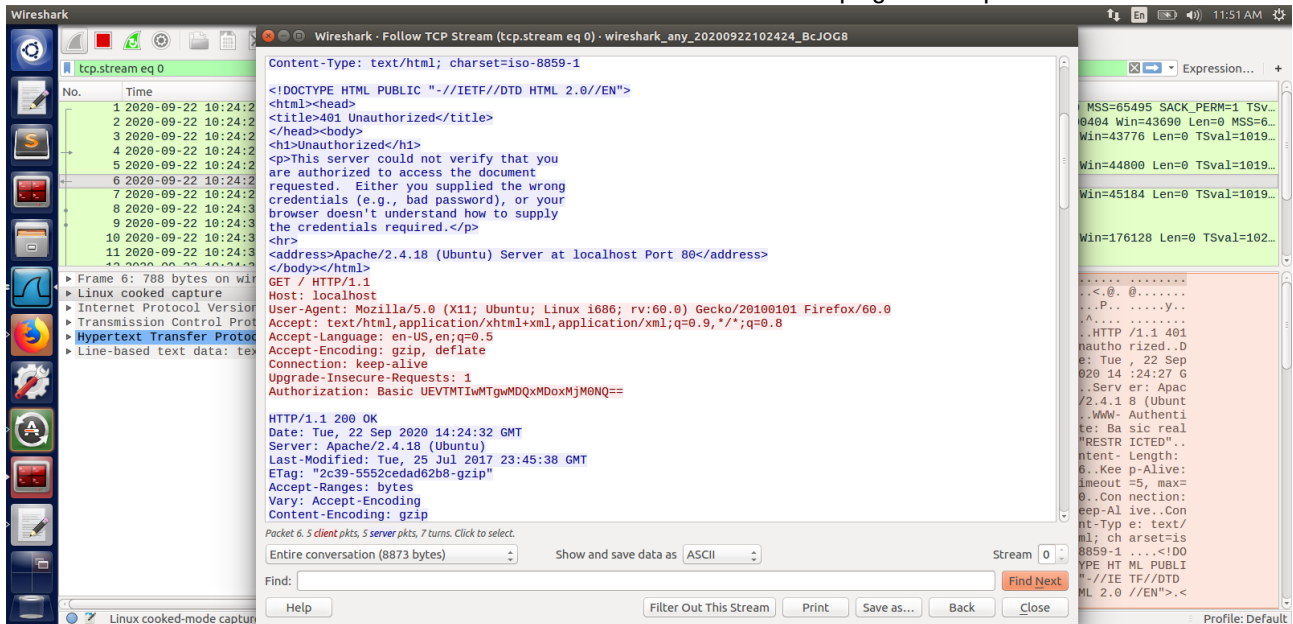
Username : PES1201800410

Password : 12345

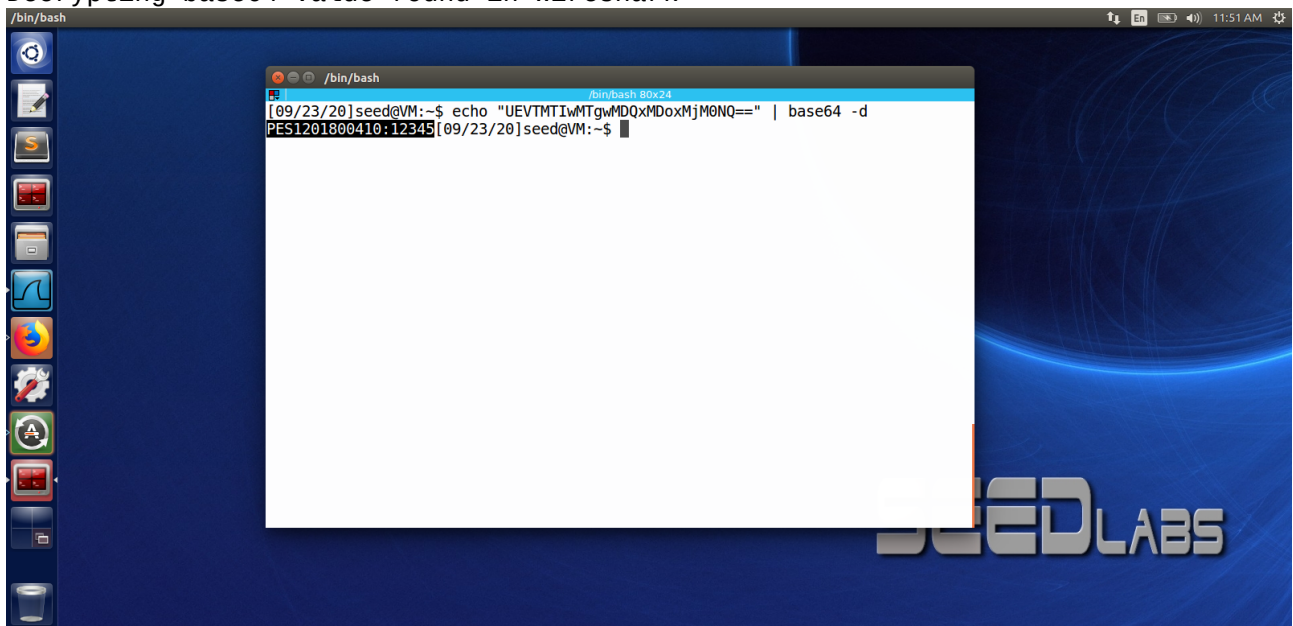
firefox apache login page



Wireshark follow TCP stream of localhost basic auth page of apache



Decrypting base64 value found in wireshark



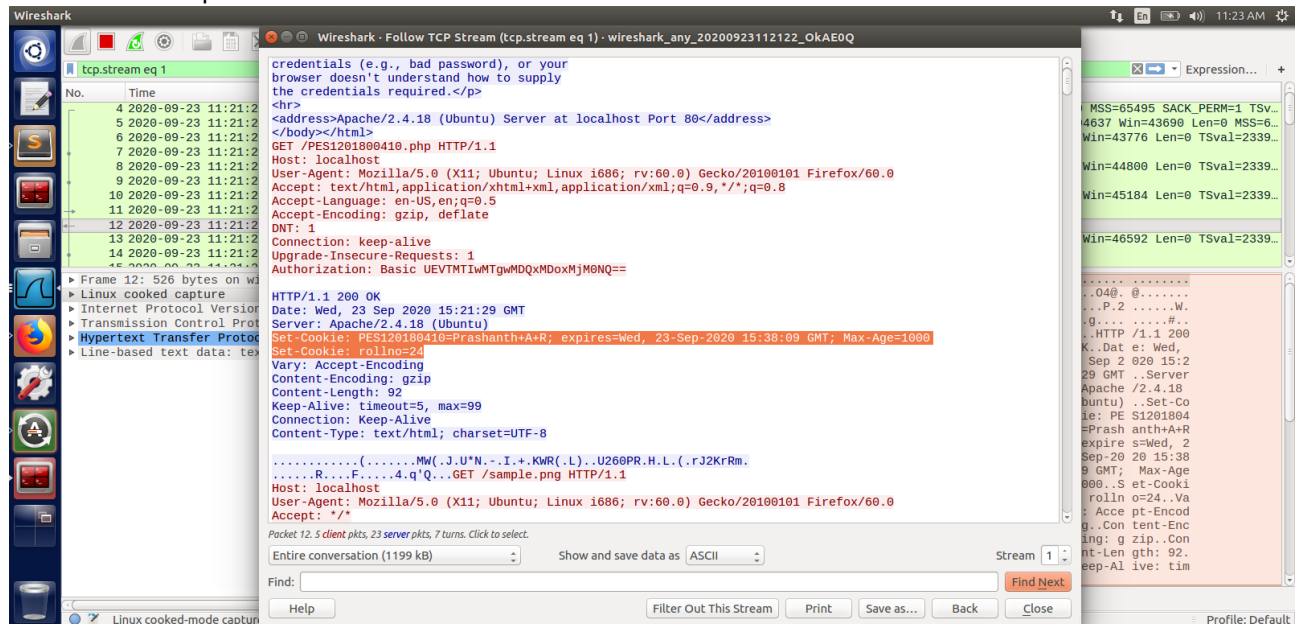
We found that it is in the format username:password which is PES1201800410:12345

website basic code

```
<html>
<?php
    setcookie("PES120180410" , "Prashanth A R" , time() + 1000);
    setcookie("rollno" , "24");
?>

</html>
```

Wireshark capture of the cookie



cookie 1

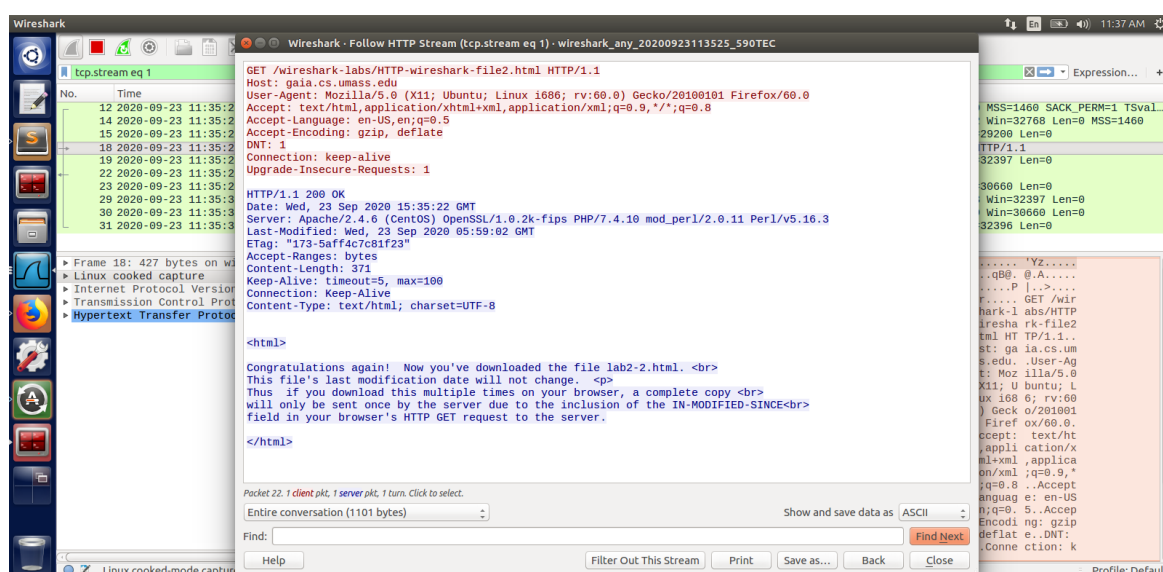
set-Cookie: cookie_name=Cookie_value ; expires=time when it expires ; Max-Age=time in secs

cookie 2

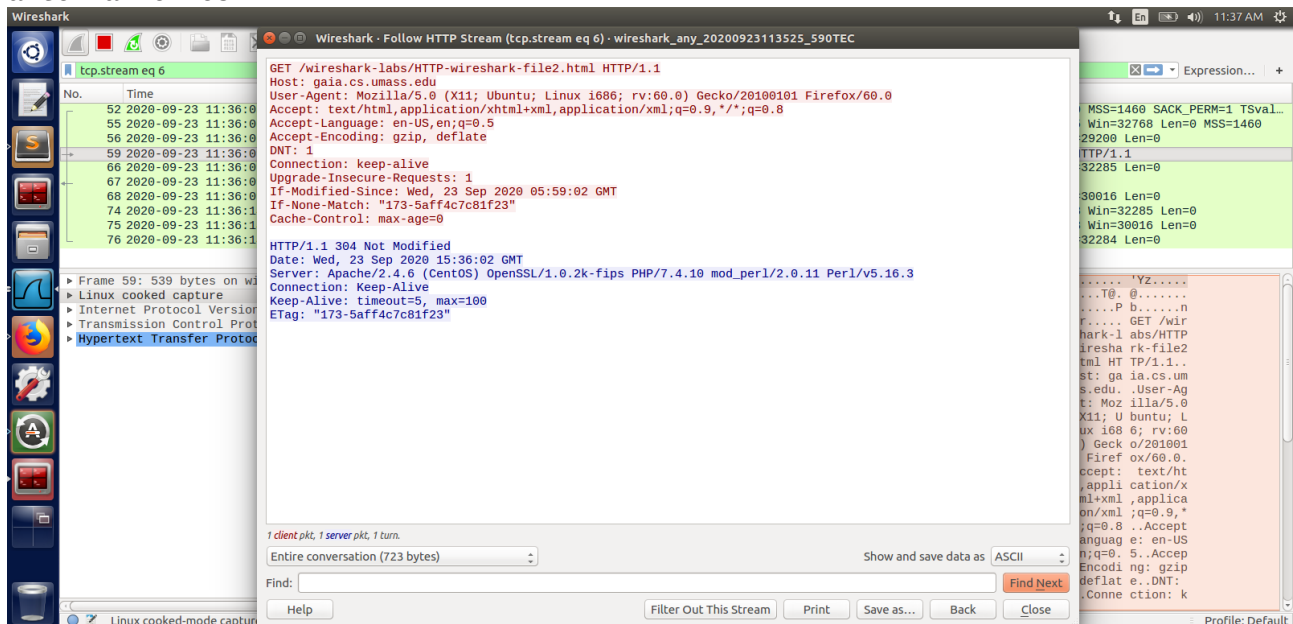
Set-Cookie: cookie_name=Cookie_value ; // no expire date bcz it not mentioned in the php file ie we didn't set the expire date

wireshark IF-MODIFIED-SINCE

1st time



after a refresh



OBSERVATION

1. Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE" line in the HTTP GET?

Ans: NO

2. Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?

Ans: yes because we got response code 200 which tells file is found and successfully retrieved from the server.

3. Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE:" line in the HTTP GET? If so, what information follows the "IF-MODIFIED-SINCE:" header?

Ans: Yes we find "IF-MODIFIED-SINCE:" header in the second HTTP GET request which contains "IF-MODIFIED-SINCE:Wed, 23 Sep 2020 05:59:02 GMT"

4. What is the HTTP status code and phrase returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? Explain.

Ans: status code is 304 which is content not modified

No server didn't explicitly return the contents of the file because the file content was not modified from the last request therefore the client that content is not modified hence old content can be reused.