

(1

sudo apt update

sudo apt install apache2

=====

2)

```
mohamed@mohamed-Inspiron-5570:~$ sudo touch /var/www/html/lab1/page{1..2}.html
mohamed@mohamed-Inspiron-5570:~$ sudo ls -a /var/www/html/lab1
```

```
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo nano /etc/apache2/apache2.conf
```

```
Directory /var/www/>
    Options Indexes FollowSymLinks
    AllowOverride All
    Require all granted
/Directory>
```

```
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo nano /var/www/html/.htaccess
mohamed@mohamed-Inspiron-5570:/var/www/html$
```

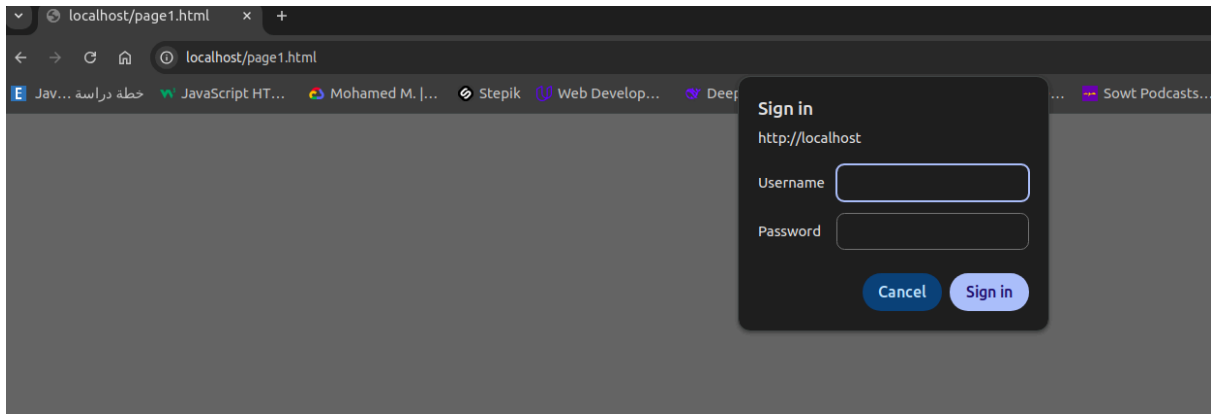
```
GNU nano 4.8
Redirect /page1.html /page2.html
```

=====

3)

```
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo htpasswd -c /etc/apache2/.htpasswd mohamed
New password:
Re-type new password:
Adding password for user mohamed
mohamed@mohamed-Inspiron-5570:/var/www/html$
```

```
Redirect /page1.html /page2.html
AuthType Basic
AuthName "Restricted Area"
AuthUserFile /etc/apache2/.htpasswd
Require valid-user
```

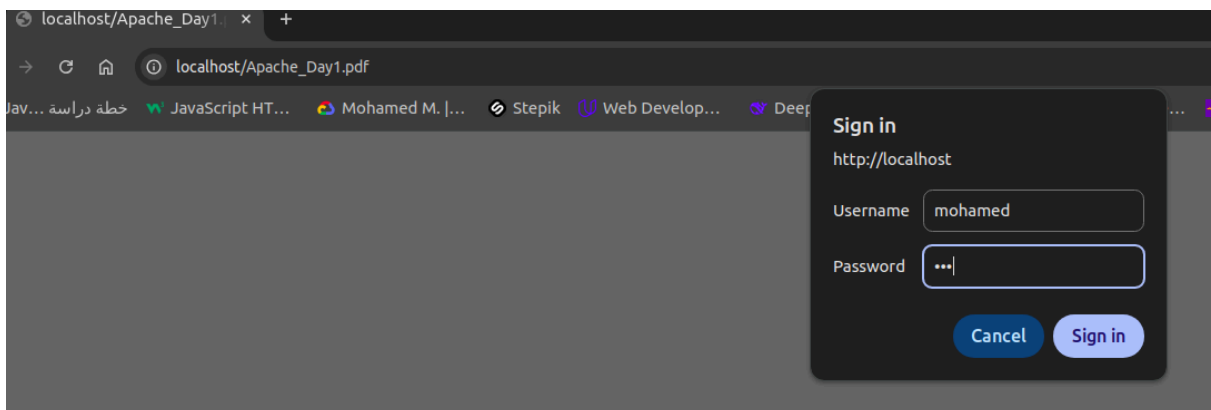


=====

4)

```
Redirect /page1.html /page2.html
AuthType Basic
AuthName "Restricted Area"
AuthUserFile /etc/apache2/.htpasswd
Require valid-user
<FilesMatch "\.pdf$">
    AuthType Basic
    AuthName "Restricted PDF Access"
    AuthUserFile /etc/apache2/.htpasswd
    Require valid-user
</FilesMatch>
```

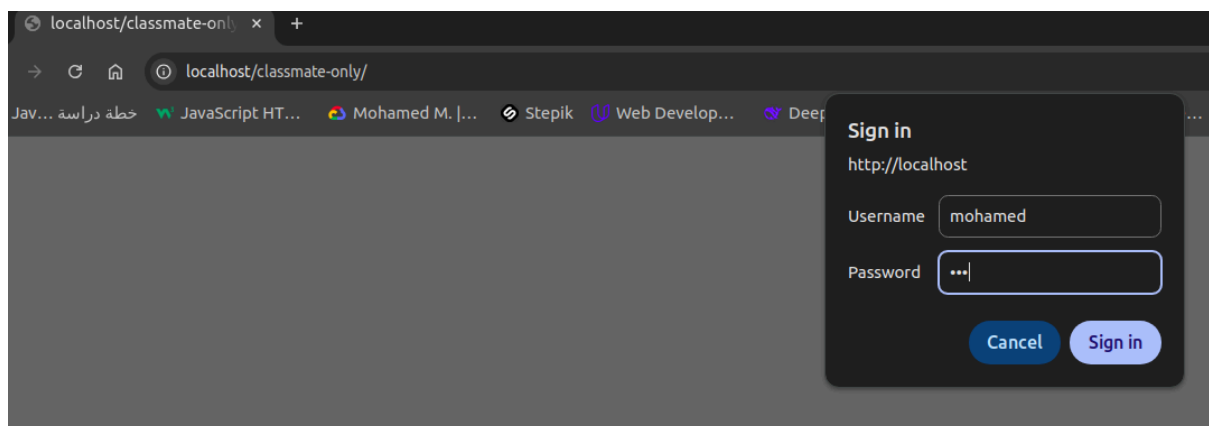
```
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo htpasswd -c /etc/apache2/.htpasswd mohamed
New password:
Re-type new password:
Adding password for user mohamed
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo nano .htaccess
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo nano .htaccess
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo systemctl restart apache2
mohamed@mohamed-Inspiron-5570:/var/www/html$
```



5)

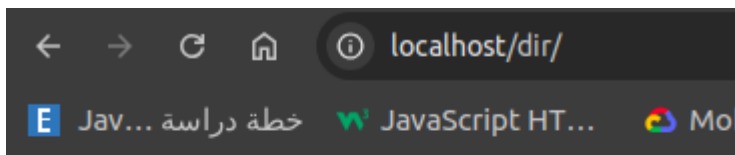
```
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo mkdir /var/www/html/classmate-only
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo htpasswd -c /etc/apache2/classmate.htpasswd john
New password:
Re-type new password:
Adding password for user john
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo htpasswd -c /etc/apache2/classmate.htpasswd mohamed
New password:
Re-type new password:
Adding password for user mohamed
mohamed@mohamed-Inspiron-5570:/var/www/html$ sudo cd classmate-only
sudo: cd: command not found
mohamed@mohamed-Inspiron-5570:/var/www/html$ cd classmate-only
mohamed@mohamed-Inspiron-5570:/var/www/html/classmate-only$ cd /var/www/html/classmate-only/
mohamed@mohamed-Inspiron-5570:/var/www/html/classmate-only$ sudo nano .htaccess
mohamed@mohamed-Inspiron-5570:/var/www/html/classmate-only$ sudo nano .htaccess
mohamed@mohamed-Inspiron-5570:/var/www/html/classmate-only$ sudo systemctl restart apache2
mohamed@mohamed-Inspiron-5570:/var/www/html/classmate-only$
```

```
AuthType Basic
AuthName "Classmate Only Area"
AuthUserFile /etc/apache2/classmate.htpasswd
Require user mohamed
```



6)

```
Redirect /page1.html /page2.html
AuthType Basic
AuthName "Restricted Area"
AuthUserFile /etc/apache2/.htpasswd
Require valid-user
<FilesMatch "\.pdf$">
    AuthType Basic
    AuthName "Restricted PDF Access"
    AuthUserFile /etc/apache2/.htpasswd
    Require valid-user
</FilesMatch>
Options -Indexes
```



## Forbidden

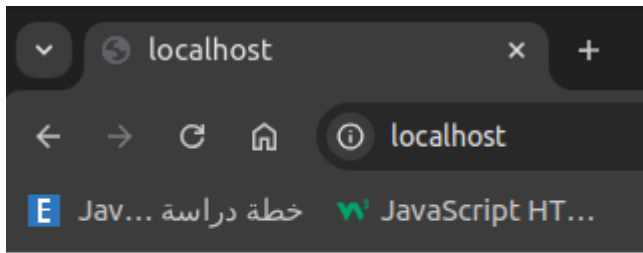
You don't have permission to access this resource.

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*Apache/2.4.41 (Ubuntu) Server at localhost Port 80*

7)

```
Redirect /page1.html /page2.html
AuthType Basic
AuthName "Restricted Area"
AuthUserFile /etc/apache2/.htpasswd
Require valid-user
<FilesMatch "\.pdf$">
    AuthType Basic
    AuthName "Restricted PDF Access"
    AuthUserFile /etc/apache2/.htpasswd
    Require valid-user
</FilesMatch>
Options -Indexes
DirectoryIndex page2.html
```



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