

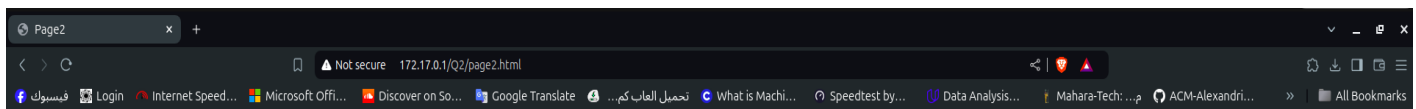
1. Install Apache HTTP server

```
eslam@eslam-Latitude-E7450: /etc/apache2
(base) eslam@eslam-Latitude-E7450:/etc/apache2$ sudo systemctl status apache2
[sudo] password for eslam:
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Fri 2024-08-09 15:27:27 EEST; 2h 18min ago
     Docs: https://httpd.apache.org/docs/2.4/
    Main PID: 13716 (apache2)
      Tasks: 55 (limit: 18945)
     Memory: 8.1M (peak: 8.7M)
        CPU: 337ms
    CGroup: /system.slice/apache2.service
            └─13716 /usr/sbin/apache2 -k start
              └─13718 /usr/sbin/apache2 -k start
                └─13719 /usr/sbin/apache2 -k start

Aug 09 15:27:27 eslam-Latitude-E7450 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Aug 09 15:27:27 eslam-Latitude-E7450 apachectl[13715]: AH00558: apache2: Could not reliably determine the server's fully qualified domain
Aug 09 15:27:27 eslam-Latitude-E7450 systemd[1]: Started apache2.service - The Apache HTTP Server.
lines 1-16/16 (END)
```

2. Create two simple html pages named “page1.html, page2.html” then use the suitable directive to automatically redirect from localhost/page1.html to localhost/page2.html.

```
Redirect /Q2/page1.html /Q2/page2.html
```

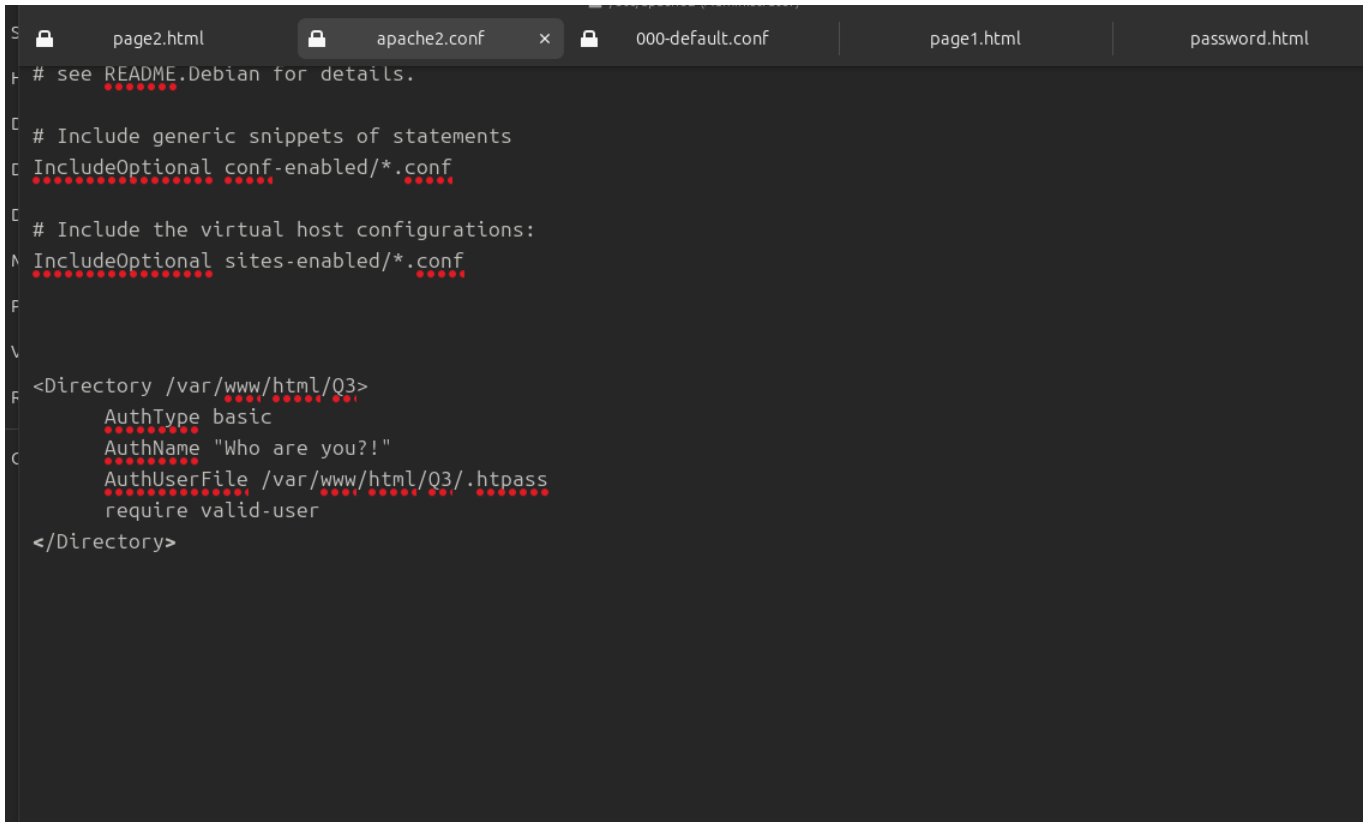


Welcome to Page2

About This Page2

Welcome to Page Two

3. Ask for user name and password when accessing a directory

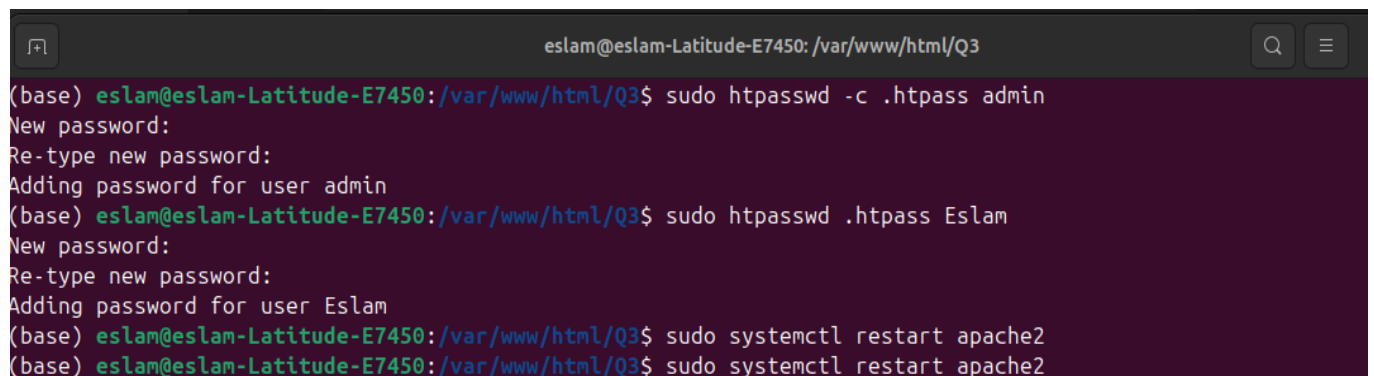


```
# see README.Debian for details.

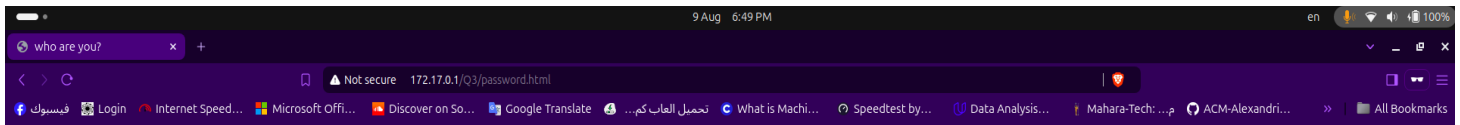
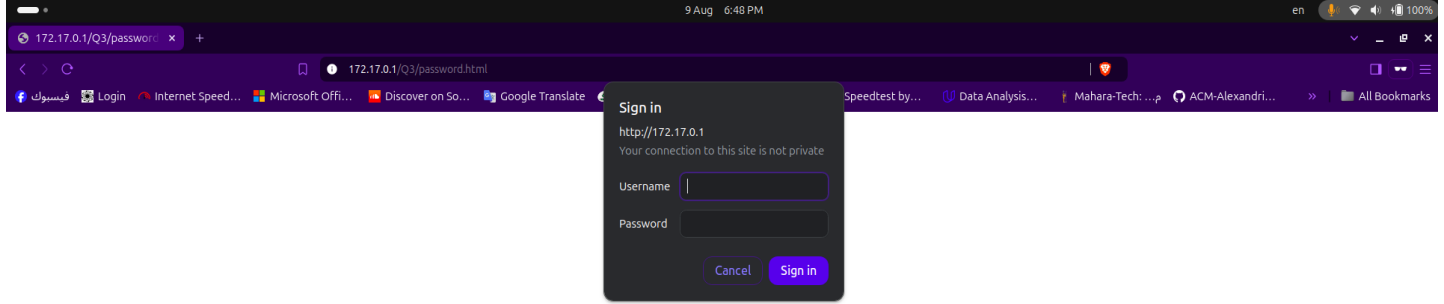
# Include generic snippets of statements
IncludeOptional conf-enabled/*.conf

# Include the virtual host configurations:
IncludeOptional sites-enabled/*.conf

<Directory /var/www/html/Q3>
    AuthType basic
    AuthName "Who are you?!"
    AuthUserFile /var/www/html/Q3/.htpass
    require valid-user
</Directory>
```



```
eslam@eslam-Latitude-E7450: /var/www/html/Q3
(base) eslam@eslam-Latitude-E7450:/var/www/html/Q3$ sudo htpasswd -c .htpass admin
New password:
Re-type new password:
Adding password for user admin
(base) eslam@eslam-Latitude-E7450:/var/www/html/Q3$ sudo htpasswd .htpass Eslam
New password:
Re-type new password:
Adding password for user Eslam
(base) eslam@eslam-Latitude-E7450:/var/www/html/Q3$ sudo systemctl restart apache2
(base) eslam@eslam-Latitude-E7450:/var/www/html/Q3$ sudo systemctl restart apache2
```



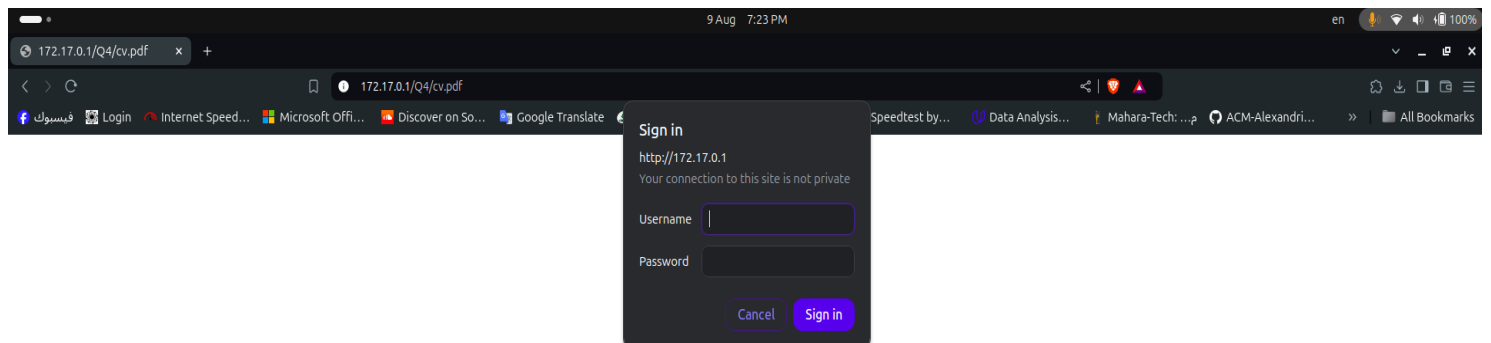
Welcome bro

Right username and password



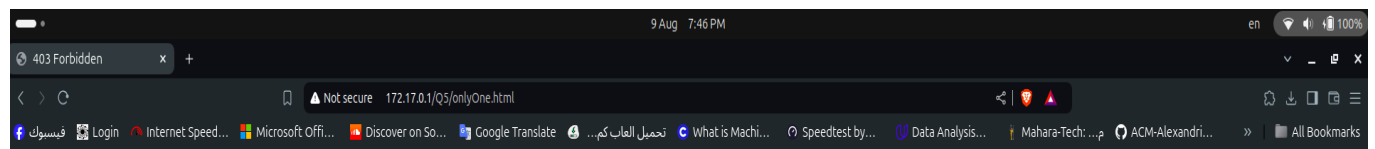
4. Apply authentication before downloading PDF files.

```
<Directory /var/www/html/Q4>
  <FilesMatch /\.pdf$>
    AuthType Basic
    AuthName "Restricted Area"
    AuthUserFile /var/www/html/Q4/.htpass
    Require valid-user
  </FilesMatch>
</Directory>
```



5. Create a directory then allow access to one of your classmates only.

```
<Directory /var/www/html/Q5>  
    allow from 192.168.1.9  
    deny from all  
    order deny,allow  
</Directory>
```



Forbidden

You don't have permission to access this resource.

Apache/2.4.58 (Ubuntu) Server at 172.17.0.1 Port 80



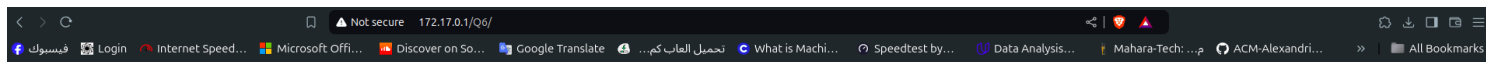
192.168.1.7/Q5/c



**only you can catch
thise page in our
server**

welcom from phone

directory content (*hint use indexs*)



Index of /Q6

| Name | Last modified | Size | Description |
|--|---------------|------|-------------|
|  Parent Directory | | - | |

Apache/2.4.58 (Ubuntu) Server at 172.17.0.1 Port 80

```
<Directory /var/www/html/Q6>
    Options -Indexes
</Directory>
```



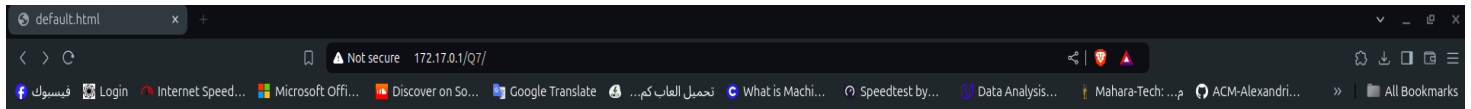
Forbidden

You don't have permission to access this resource.

Apache/2.4.58 (Ubuntu) Server at 172.17.0.1 Port 80

7. Change the default index page to be default.html instead of index.html (use *DirectoryIndex*)

```
<Directory /var/www/html/Q7>  
    DirectoryIndex default.html  
</Directory>
```



index page to be default.html instead of index.html

default.html