Apache Day2 Team 2 Mansoura Open source Intake 45

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1. Change the default index page to default.html instead of index.html (use DirectoryIndex)

ubuntu@ubuntu:~\$ sudo vi /etc/apache2/apache2.conf
ubuntu@ubuntu:~\$

DirectoryIndex default.html index.html

ubuntu@ubuntu:~\$ sudo service apache2 restart



2. Change the default port to be 8000 instead of 80

ubuntu@ubuntu:~\$ sudo vi /etc/apache2/ports.conf

u@ubuntu:~\$ sudo vi /etc/apache2/sites-available/000-default.conf

```
<VirtualHost *:8000>
```

3. What is the importance of rewrite module?

allows you to rewrite URLs dynamically

- Restricts access to certain pages or directories based on conditions.
- Redirects old URLs to new ones or forces www or https
- Converts ugly URLs into clean URLs

```
4. Configure apache to use Worker MPM
   -(root@kali)-[/etc/apache2/sites-enabled]
 —# apachectl −V | grep MPM
Server MPM: prefork
(root ♠ kali)-[/etc/apache2/sites-enabled]
# vi /etc/apache2/apache2.conf
 (root to kali)-[/etc/apache2/sites-enabled]
# a2dismod mpm_prefork
ERROR: The following modules depend on mpm_prefork and
  -(root  kali)-[/etc/apache2/sites-enabled]
a2dismod php7.4
Module php7.4 disabled.
To activate the new configuration, you need to run:
 systemctl restart apache2
  -(root to kali)-[/etc/apache2/sites-enabled]
a2dismod mpm_prefork
Module mpm prefork disabled.
To activate the new configuration, you need to run:
  systemctl restart apache2
   -(root® kali)-[/etc/apache2/sites-enabled]
a2enmod mpm_worker
Considering conflict mpm event for mpm worker:
Considering conflict mpm_prefork for mpm_worker:
Enabling module mpm_worker.
To activate the new configuration, you need to run:
  systemctl restart apache2
```

-(root@kali)-[/etc/apache2/sites-enabled]

—(root⊗kali)-[/etc/apache2/sites-enabled]

systemctl restart apache2

apachectl -V | grep MPM

Server MPM: worker

5. Check the status of rewrite_mod and enable it if it is enabled.

```
(root kali)-[/etc/apache2/sites-enabled]
# a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
    systemctl restart apache2

—(root kali)-[/etc/apache2/sites-enabled]
# systemctl restart apache2

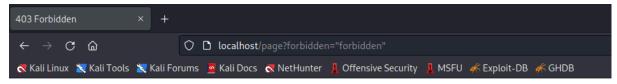
—(root kali)-[/etc/apache2/sites-enabled]
# apache2ctl -M | grep rewrite
AH00558: apache2: Could not reliably determine the se Set the 'ServerName' directive globally to suppress rewrite_module (shared)
```

Bonus:

- 1- Write RewriteCond and RewiteRules for:
- A. Deny access to http://localhost/page?queryString if queryString contains the string forbidden.

RewriteEngine On

```
RewriteCond "%{QUERY_STRING}" "forbidden"
RewriteRule ^/page$ - [F]
```



Forbidden

You don't have permission to access this resource.

Apache/2.4.48 (Debian) Server at localhost Port 80

B. Remove the Query String

C. Rewrite URLs like http://localhost/page1?var=val to http://localhost/page2?var=val but do not rewrite if val isn't present.

```
ubuntu@ubuntu:~$ sudo vi /var/www/html/.htaccess
ubuntu@ubuntu:~$

RewriteEngine On

RewriteCond %{QUERY_STRING} (^|&)var=([^&]+) [NC]
RewriteRule ^page1$ /page2?%{QUERY_STRING} [L,R=301]
```

D. Take a URL of the form http://localhost/path?var=val and transform it into http://localhost/path/var/val.

```
RewriteCond %{QUERY_STRING} (^|&)var=([^&]+) [NC]
RewriteRule ^([^?]*)$ /%1/%2? [L,R=301]
```

E. Map http://localhost/example/one/two to http://localhost/something.cgi?arg=one&other=two

RewriteRule $^{\text{example}/([^/]+)/([^/]+)}$ /something.cgi?arg=\$1&other=\$2 [L,QSA]