Apache Lab2

Team 4

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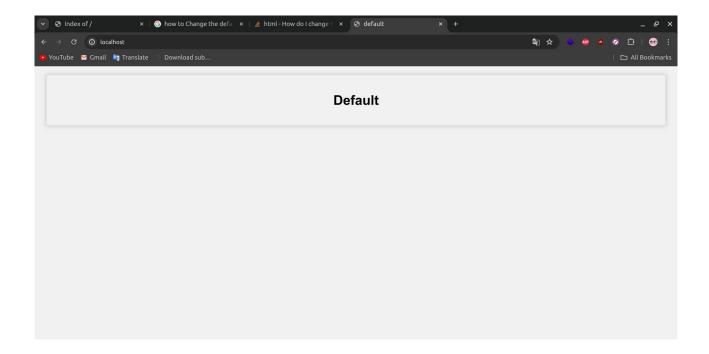
1. Change the default index page to default.html instead of index.html (use DirectoryIndex)

cd /etc/apache2 sudo vim apache2.conf

Add the following code in the file

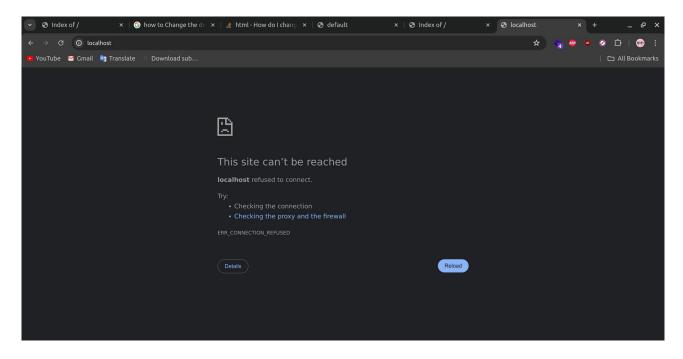
DirectoryIndex default.html index.html

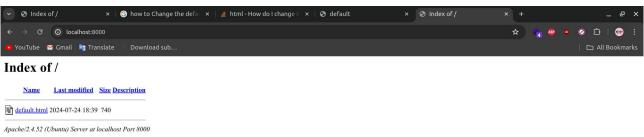
sudo service apache2 restart



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

cd /etc/apache2 sudo vim ports.conf # edit listen 8000 sudo service apache2 restart # open localhost:8000





3. What is the importance of rewrite module?

The mod_rewrite module is an Apache module that allows you to rewrite URLs.

It can be used to optimize your URL structure, to apply access restrictions, or to create search engine friendly links. It is a very powerful and flexible tool for directing and controlling traffic to your site.

4. Configure apache to use Worker MPM

sudo a2enmod mpm_worker

cd /etc/apache2

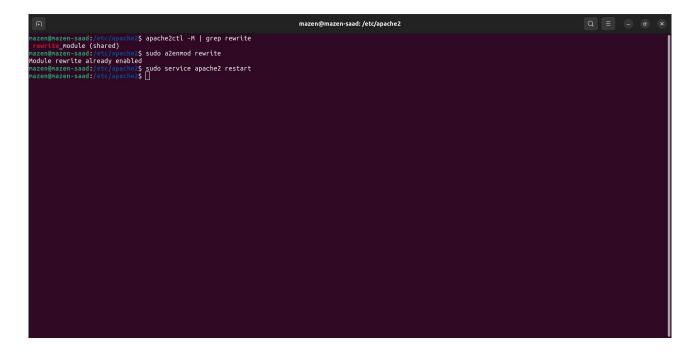
edit file apache2.conf

sudo vim apache2.conf

<IfModule mpm_worker_module>
 StartServers 2
 MinSpareThreads 25
 MaxSpareThreads 75
 ThreadsPerChild 25
 MaxRequestWorkers 150
</lfModule>

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

apache2ctl -M | grep rewrite sudo a2enmod rewrite sudo service apache2 restart



Bonus:

1- Write RewriteCond and RewiteRules for:

cd /etc/apache2/sites-enabled sudo vim 000-default.conf

sudo service apache2 restart

A. Deny access to http://localhost/page?queryString if queryString contains the string forbidden.

RewiteEngine on RewriteCond "%{QUERY_STRING}" "^queryString=forbidden\$" RewriteRule ^/page - [F]



B. Remove the Query String

RewiteEngine on RewriteCond "%{QUERY_STRING}" "^queryString=forbidden\$" RewriteRule ^/page /page? [R]



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

RewiteEngine on RewriteCond "%{QUERY_STRING}" "(var)=(val)" RewriteRule ^/page1\$ /page2 [R]



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

RewiteEngine on RewriteCond "%{QUERY_STRING}" "^(var)=(val)\$" RewriteRule ^/path\$ /path/var/val? [R]



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

RewiteEngine on RewriteRule ^/example/(one)/(two)\$ /something.cgi? arg=\$1&other=\$2 [R]



2- Create virtualhost for os.iti.gov.eg website cd /etc/apache2/sites-available

<VirtualHost *:80>
 ServerAdmin "webmaster@os.iti.gov.eg"
 ServerName os.iti.gov.eg
 ServerAlias "os.iti.gov.eg"
 DocumentRoot "var/www/html/os.iti.gov.eg
</VirtualHost>

sudo mkdir -p /var/www/html/os.iti.gov.eg

sudo a2ensite os.iti.gov.eg sudo service apache2 restart

sudo vim os.iti.gov.eg.conf