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## Lab ( 2 )

Q(1)

```
Activities Terminal 15:02 24 جول 15
omar@Dell: /etc/apache2/sites-enabled

<VirtualHost *:80>
# The ServerName directive sets the request scheme, hostname and port that
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName www.example.com

ServerAdmin webmaster@localhost
DocumentRoot /var/www/html
# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
#LogLevel info ssl:warn

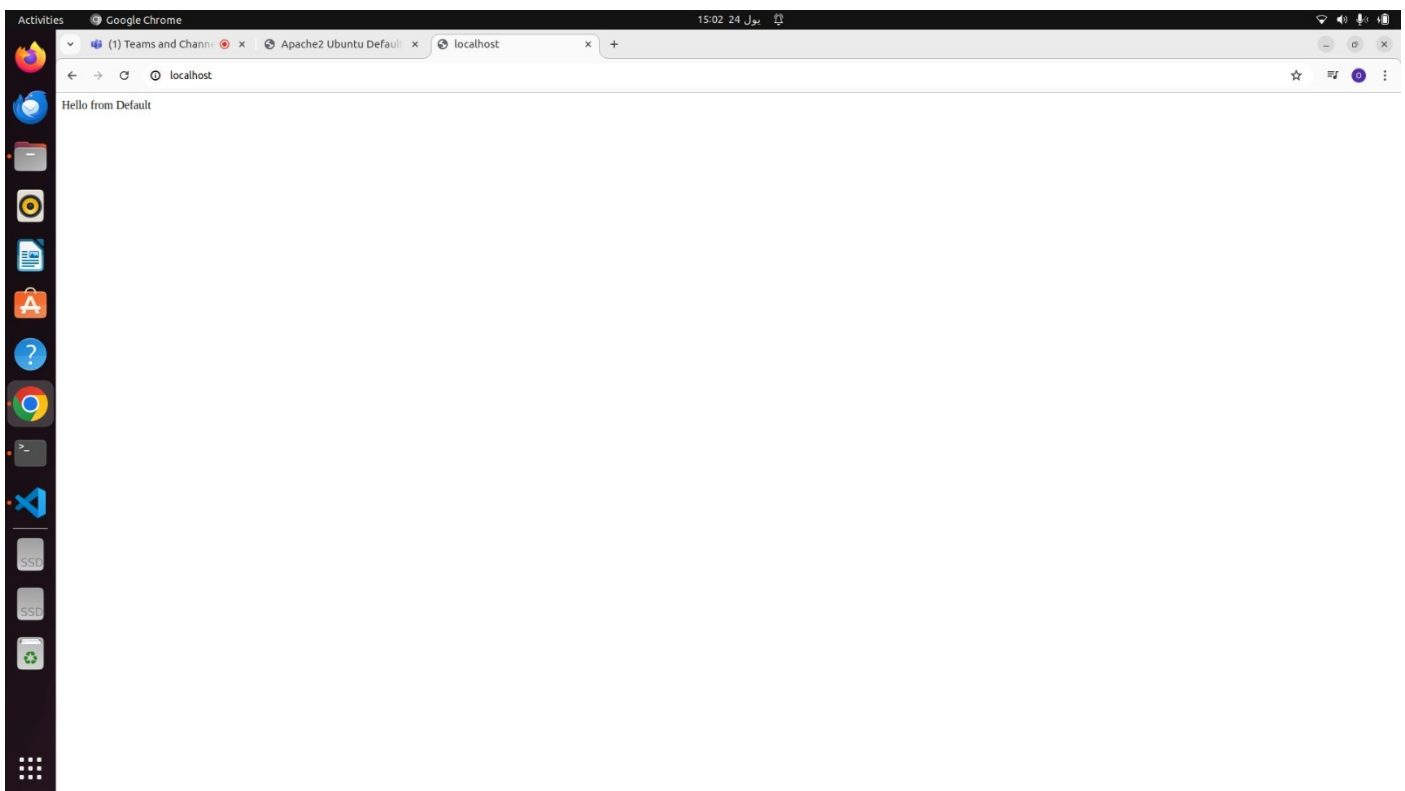
ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

# For most configuration files from conf-available/, which are
# enabled or disabled at a global level, it is possible to
# include a line for only one particular virtual host. For example the
# following line enables the CGI configuration for this host only
# after it has been globally disabled with "a2disconf".
#Include conf-available/serve-cgi-bin.conf

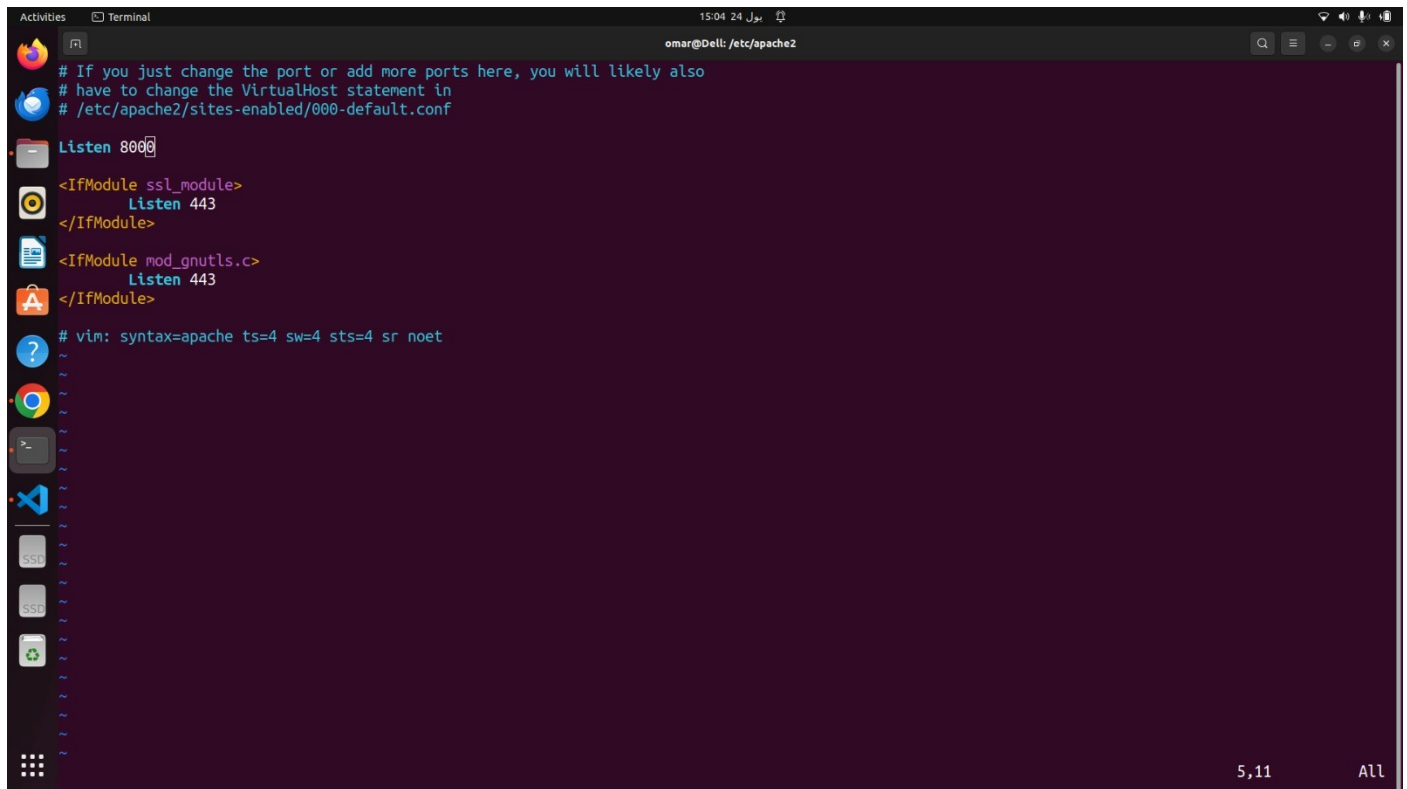
<IfModule mod_dir.c>
    DirectoryIndex default.html
</IfModule>

</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
~
~
~
: wq
```



Q(2)

A terminal window titled 'Terminal' with the prompt 'omar@Dell: /etc/apache2'. The user is editing the '000-default.conf' file. The visible content includes comments about port changes, a 'Listen 8000' line, and conditional blocks for 'ssl\_module' and 'mod\_gnutls.c' both containing 'Listen 443'. At the bottom right, it shows '5,11' lines and 'All' files.

```
# If you just change the port or add more ports here, you will likely also
# have to change the VirtualHost statement in
# /etc/apache2/sites-enabled/000-default.conf

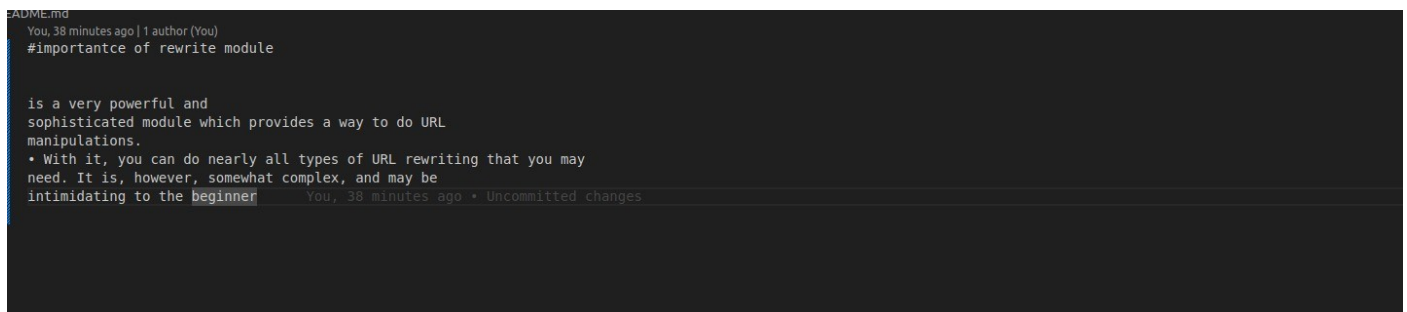
Listen 8000

<IfModule ssl_module>
    Listen 443
</IfModule>

<IfModule mod_gnutls.c>
    Listen 443
</IfModule>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

Q(3)

A text editor window titled 'ADME.md' showing a markdown document. The content discusses the importance of the rewrite module, describing it as powerful and sophisticated for URL manipulations. It includes a bullet point stating that with it, nearly all types of URL rewriting can be done, though it is complex and intimidating for beginners. The editor shows 'You, 38 minutes ago' as the author and 'Uncommitted changes' at the bottom.

```
#importance of rewrite module

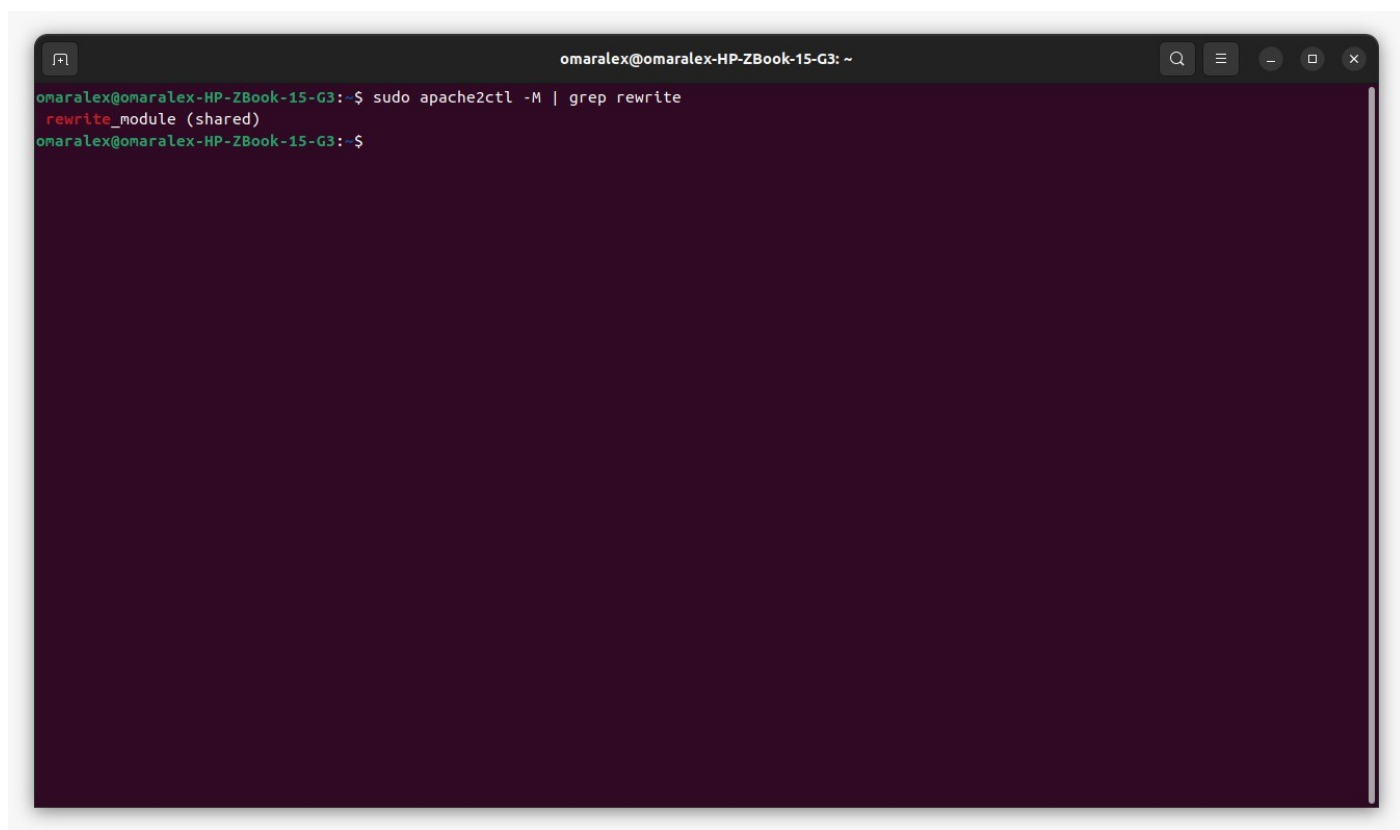
is a very powerful and
sophisticated module which provides a way to do URL
manipulations.
• With it, you can do nearly all types of URL rewriting that you may
need. It is, however, somewhat complex, and may be
intimidating to the beginner
```

Q(4)

```
michael@michael-ThinkPad-T470-W10DG:~$ sudo a2dismod mpm_event
Module mpm_event disabled.
To activate the new configuration, you need to run:
    systemctl restart apache2
michael@michael-ThinkPad-T470-W10DG:~$ sudo 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
michael@michael-ThinkPad-T470-W10DG:~$ sudo systemctl restart apache2
michael@michael-ThinkPad-T470-W10DG:~$ sudo systemctl restart apache2
michael@michael-ThinkPad-T470-W10DG:~$ sudo a2dismod mpm_event
Module mpm_event already disabled
michael@michael-ThinkPad-T470-W10DG:~$ sudo a2enmod mpm_worker
Considering conflict mpm_event for mpm_worker:
Considering conflict mpm_prefork for mpm_worker:
Module mpm_worker already enabled
michael@michael-ThinkPad-T470-W10DG:~$ sudo systemctl restart apache2
michael@michael-ThinkPad-T470-W10DG:~$
```

Q(5)

```
omaralex@omaralex-HP-ZBook-15-G3: ~
[+]
omaralex@omaralex-HP-ZBook-15-G3:~$ sudo apache2ctl -M | grep rewrite
[sudo] password for omaralex:
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1.
Set the 'ServerName' directive globally to suppress this message
omaralex@omaralex-HP-ZBook-15-G3:~$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
    systemctl restart apache2
omaralex@omaralex-HP-ZBook-15-G3:~$ sudo service apache2 restart
omaralex@omaralex-HP-ZBook-15-G3:~$ sudo apache2ctl -M | grep rewrite
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1.
Set the 'ServerName' directive globally to suppress this message
rewrite_module (shared)
omaralex@omaralex-HP-ZBook-15-G3:~$
```

A terminal window with a dark background and light-colored text. The window title bar at the top shows the user 'omaralex' and the host 'omaralex-HP-ZBook-15-G3'. The terminal displays a command 'sudo apache2ctl -M | grep rewrite' and its output 'rewrite\_module (shared)'.

```
omaralex@omaralex-HP-ZBook-15-G3: ~  
omaralex@omaralex-HP-ZBook-15-G3:~$ sudo apache2ctl -M | grep rewrite  
rewrite_module (shared)  
omaralex@omaralex-HP-ZBook-15-G3:~$
```