

# compilation of lab1:

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a-`sudo nano /etc/apache2/sites-available/os.itl.gov.eg.conf`

b-<VirtualHost \*:80>

    ServerName os.itl.gov.eg

    DocumentRoot /var/www/os.itl.gov.eg

    <Directory /var/www/os.itl.gov.eg>

        Options Indexes FollowSymLinks

        AllowOverride All

        Require all granted

    </Directory>

    ErrorLog \${APACHE\_LOG\_DIR}/os.itl.gov.eg-error.log

    CustomLog \${APACHE\_LOG\_DIR}/os.itl.gov.eg-access.log combined

</VirtualHost>

c-`sudo mkdir /var/www/os.itl.gov.eg`

`sudo bash -c 'echo "Welcome to ITI OS" > /var/www/os.itl.gov.eg/index.html'`

`sudo chown -R www-data:www-data /var/www/os.itl.gov.eg`

d

`sudo a2ensite os.itl.gov.eg.conf`

`sudo systemctl restart apache2`

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sudo a2enmod rewrite
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sudo systemctl restart apache2
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The Apache module `mod_rewrite` 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

- Pattern matching with regular expressions
- Environment variable manipulation
- Proxy gateway functionality
- Cookie setting via rewrite rules