

Apache_lab2

1-Configure apache to use Worker MPM

```
tadres@tadres: /var/www
tadres@tadres:/var/www$ apache2ctl -V | grep MPM
Server MPM:      event
tadres@tadres:/var/www$ sudo a2dismod mpm_event
[sudo] password for tadres:
Module mpm_event disabled.
To activate the new configuration, you need to run:
    systemctl restart apache2
tadres@tadres:/var/www$ 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
tadres@tadres:/var/www$ sudo systemctl restart apache2
tadres@tadres:/var/www$ apache2ctl -V | grep MPM
Server MPM:      worker
tadres@tadres:/var/www$
```

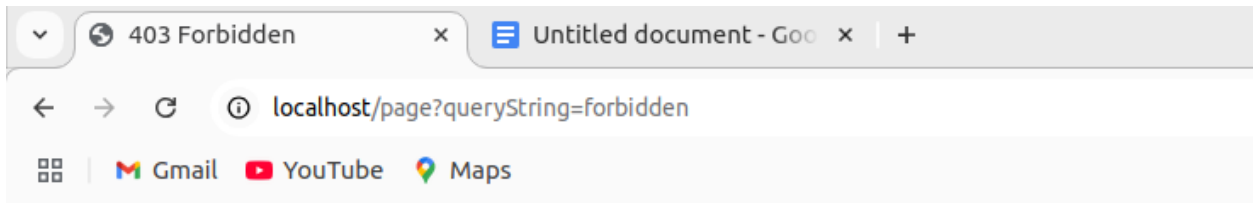
2-Check the status of rewrite_mod and enable it if it is enabled.

```
tadres@tadres: /var/www
tadres@tadres:/var/www$ 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)
tadres@tadres:/var/www$
```

3-Write RewriteCond and RewriteRules for:

(a)-Deny access to http://localhost/page?queryString if queryString contains the string forbidden.

```
tadres@tadres: /var/www/html
GNU nano 6.2 .htaccess
RewriteEngine On
RewriteCond %{QUERY_STRING} forbidden [NC]
RewriteRule ^ - [F]
```

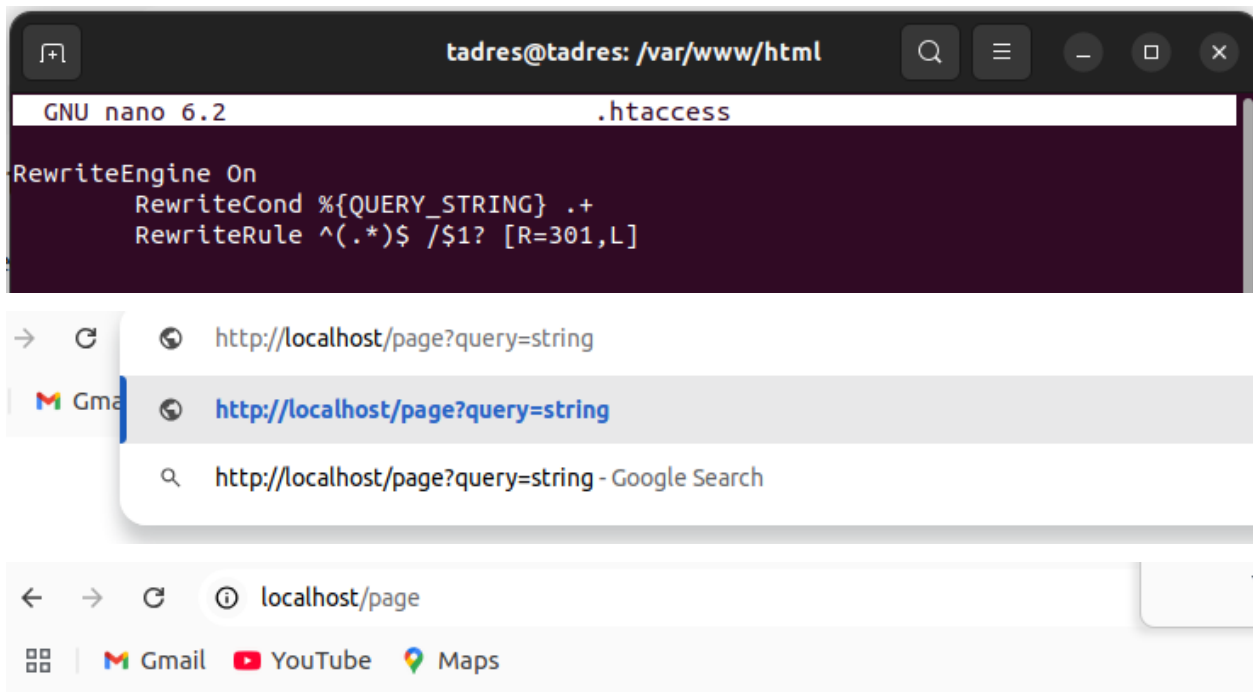


Forbidden

You don't have permission to access this resource.

Apache/2.4.52 (Ubuntu) Server at localhost Port 80

(b)-Remove the Query String

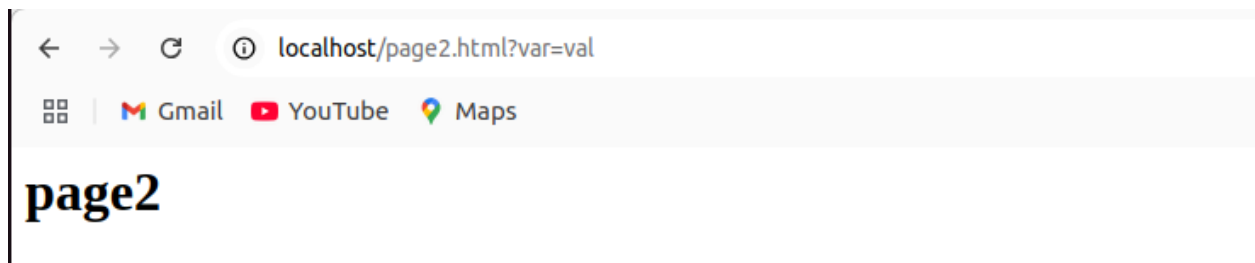
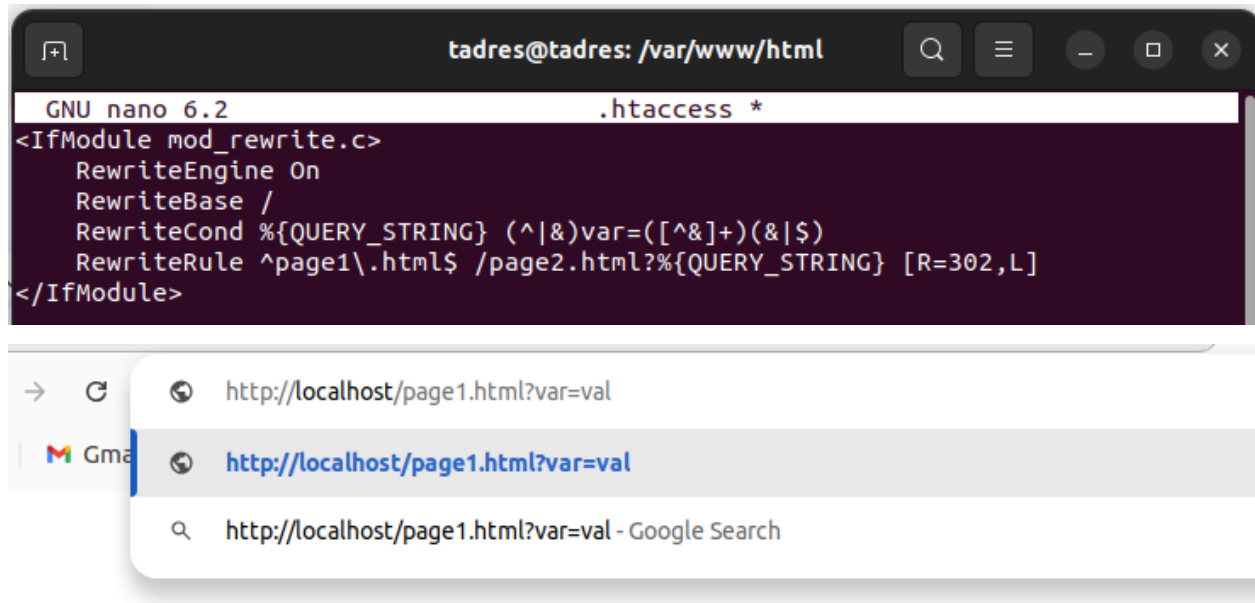


Not Found

The requested URL was not found on this server.

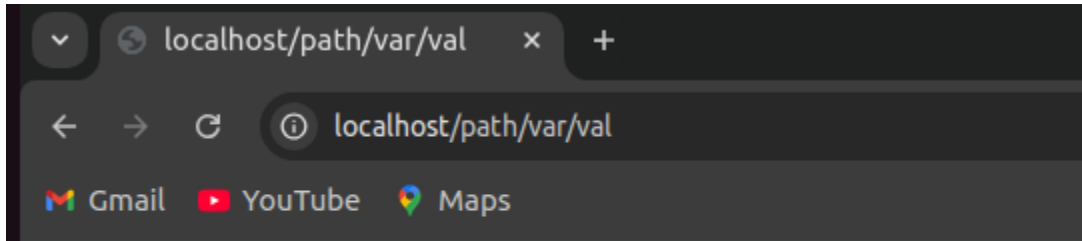
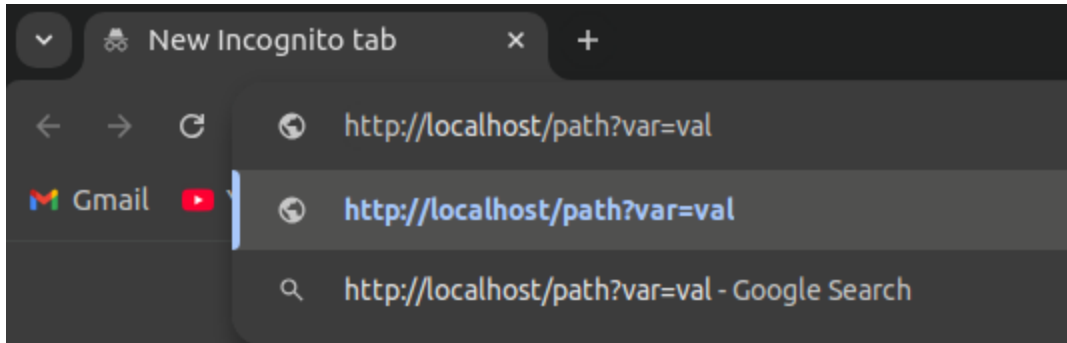
Apache/2.4.52 (Ubuntu) Server at localhost Port 80

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



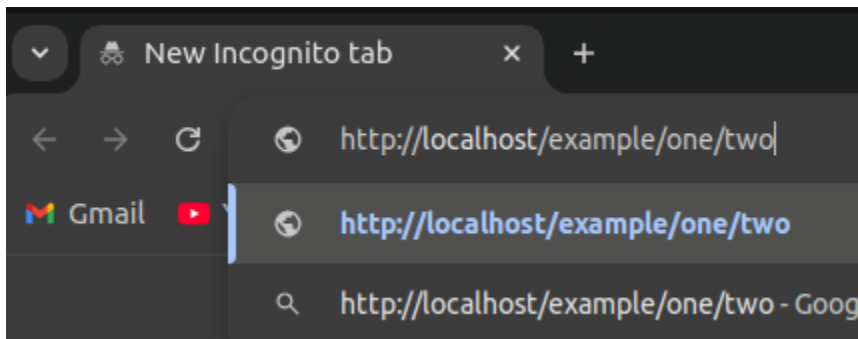
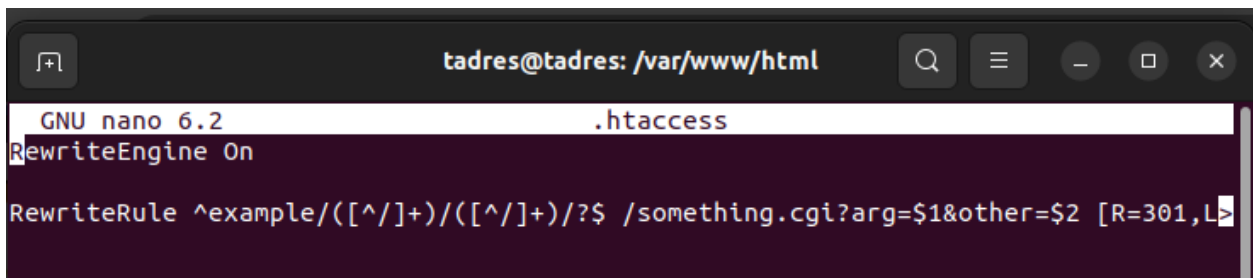
(d)-Take a URL of the form <http://localhost/path?var=val> and transform it into <http://localhost/path/var/val>.

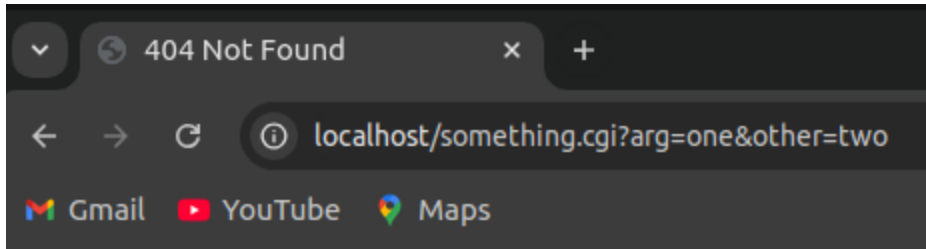




success

(e)-Map `http://localhost/example/one/two` to `http://localhost/something.cgi?arg=one&other=two`





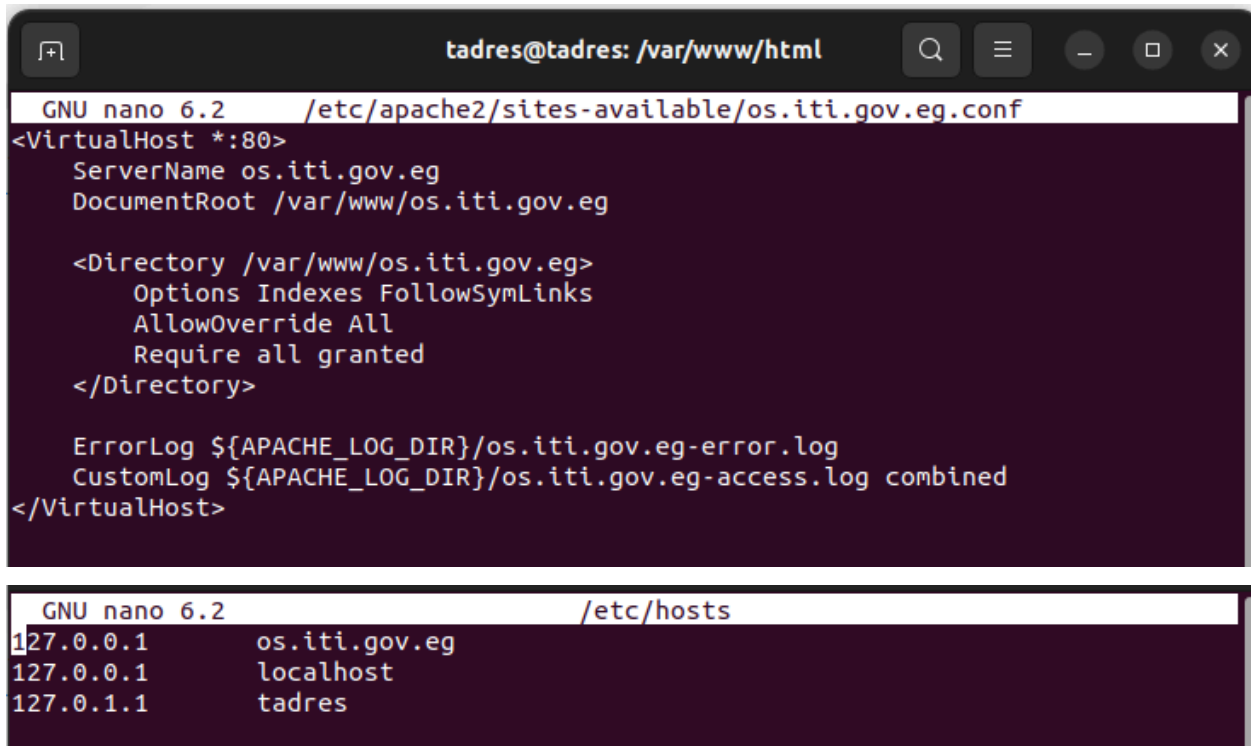
Not Found

The requested URL was not found on this server.

Apache/2.4.52 (Ubuntu) Server at localhost Port 80

4-Create a virtual host for os.iti.gov.eg to redirect to a local directory in your server

```
tadres@tadres: /var/www/html$ sudo nano .htaccess
tadres@tadres: /var/www/html$ sudo nano /etc/apache2/sites-available/os.iti.gov.eg.conf
tadres@tadres: /var/www/html$ sudo a2ensite os.iti.gov.eg.conf
Site os.iti.gov.eg already enabled
tadres@tadres: /var/www/html$ sudo nano /etc/hosts
tadres@tadres: /var/www/html$ sudo systemctl restart apache2
tadres@tadres: /var/www/html$
```



← → ↻ ⚠ Not secure os.iti.gov.eg

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hello