

```
labex:~/ $ sudo a2dismod mpm_event
sudo a2dismod mpm_prefork
sudo a2enmod mpm_worker
sudo apachectl restart

Module mpm_event disabled.
To activate the new configuration, you need to run:
  service apache2 restart
Module mpm_prefork already disabled
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:
  service apache2 restart
httpd not running, trying to start
labex:~/ $ apachectl -V | grep MPM

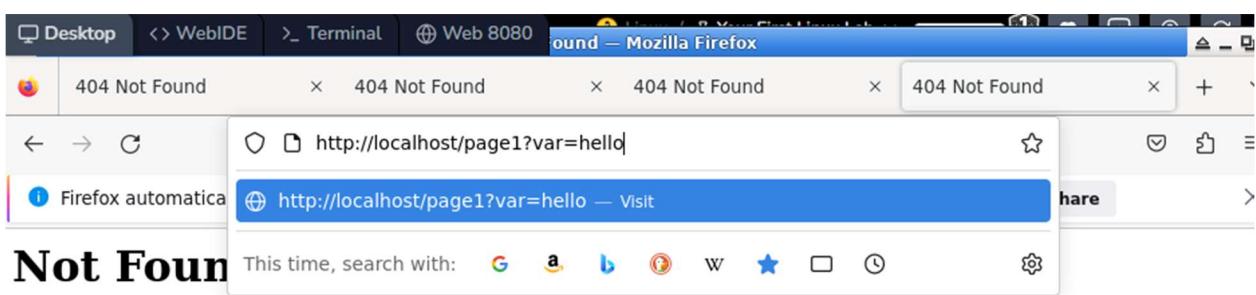
Server MPM:      worker
labex:~/ $
```

```
labex:~/ $ apachectl -M | grep rewrite

labex:~/ $ sudo a2enmod rewrite
sudo apachectl restart

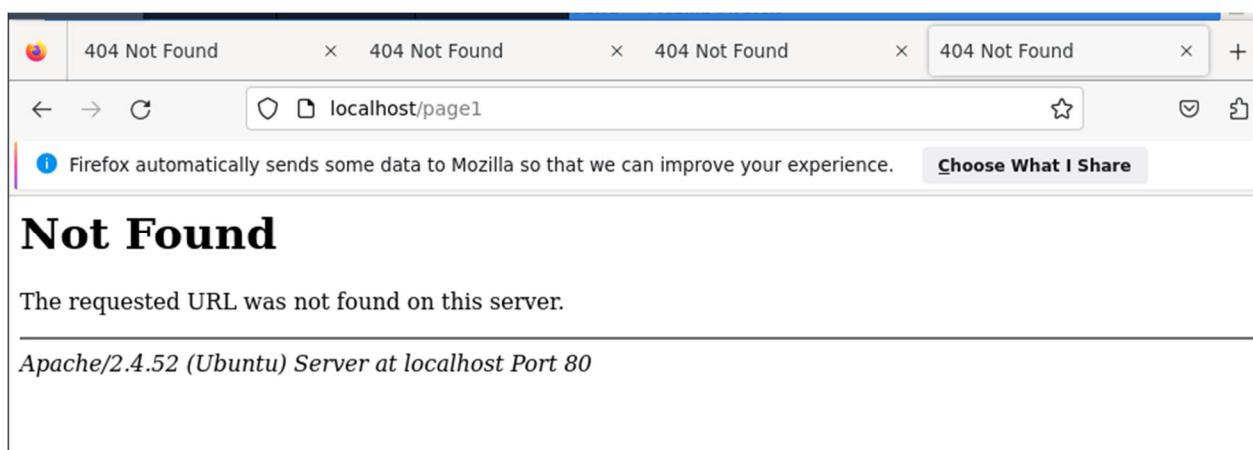
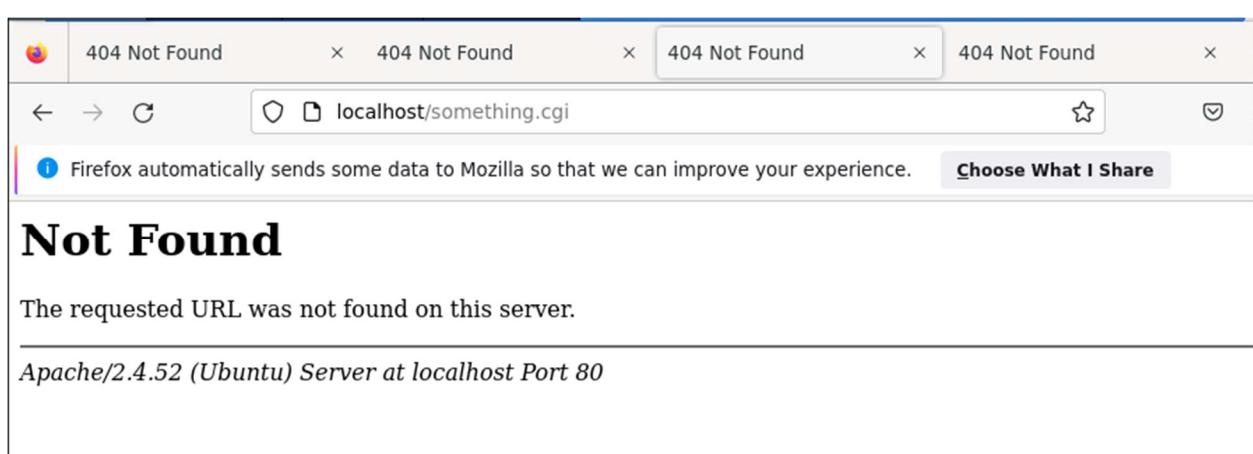
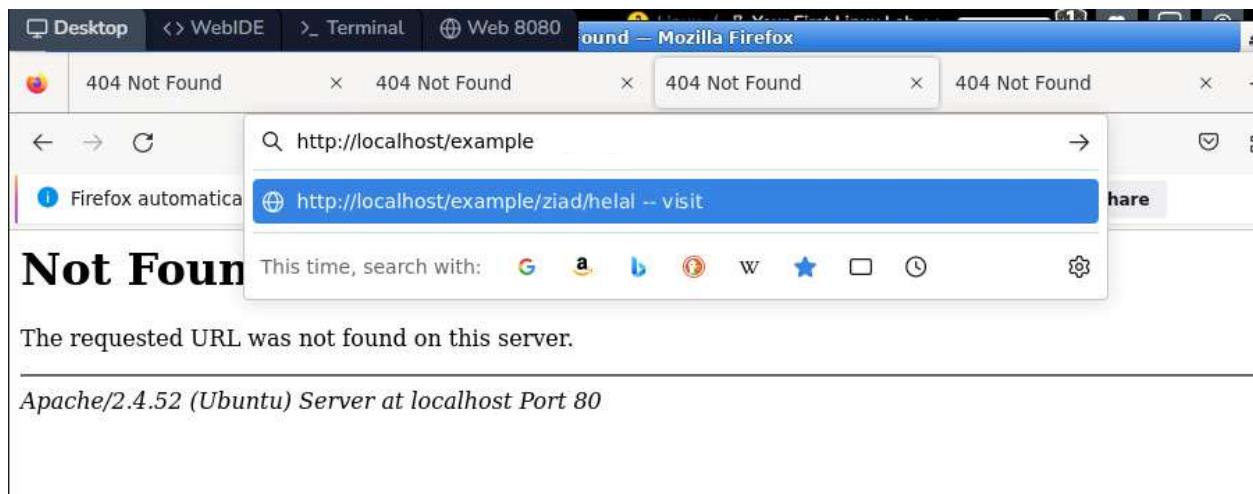
Enabling module rewrite.
To activate the new configuration, you need to run:
  service apache2 restart
labex:~/ $ service apache2 restart
 * Restarting Apache httpd web server apache2
labex:~/ $ apachectl -M | grep rewrite

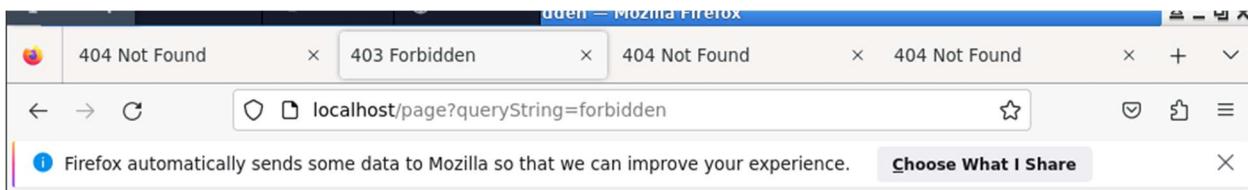
  rewrite_module (shared)
labex:~/ $
```



The requested URL was not found on this server.

Apache/2.4.52 (Ubuntu) Server at localhost Port 80





Forbidden

You don't have permission to access this resource.

Apache/2.4.52 (Ubuntu) Server at localhost Port 80

```
File Edit View Terminal Tabs Help
GNU nano 6.2          /var/www/html/.htaccess

# a) Deny access if query string contains "forbidden"
RewriteCond %{QUERY_STRING} forbidden [NC]
RewriteRule ^ - [F]

# b) Remove the query string (redirect to same URL without it)
RewriteCond %{QUERY_STRING} .
RewriteRule ^ %{REQUEST_URI}? [R=301,L]

# c) Rewrite /page1?var=val → /page2?var=val only if var is present
RewriteCond %{QUERY_STRING} (^|&)var=.+(&|$)
RewriteRule ^page1$ /page2 [R=302,L]

# d) Transform /path?var=val → /path/var/val
RewriteCond %{QUERY_STRING} (^|&)var=([^\&]+)(\&|$)
RewriteRule ^path$ /path/var/%2? [R=301,L]

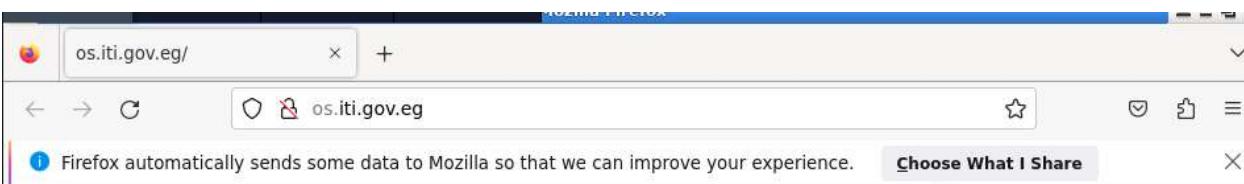
# e) Map /example/one/two → /something.cgi?arg=one&other=two
RewriteRule ^example/([^\/]+)/([^\/]+)$ /something.cgi?arg=$1&other=$2 [L, QSA]
```

```
File Edit View Terminal Tabs Help
GNU nano 6.2 /etc/apache2/sites-available/os.iti.gov.eg.conf *
<VirtualHost *:80>
    ServerName os.iti.gov.eg
    DocumentRoot /var/www/os.iti.gov.eg

    <Directory /var/www/os.iti.gov.eg>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>

    ErrorLog ${APACHE_LOG_DIR}/os_error.log
    CustomLog ${APACHE_LOG_DIR}/os_access.log combined
</VirtualHost>
█
```

^G Help ^O Write Out ^W Where Is ^K Cut
^X Exit ^R Read File ^\ Replace ^U Paste ^T Execute
 ^J Justify



Welcome to os.iti.gov.eg Virtual Host,