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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

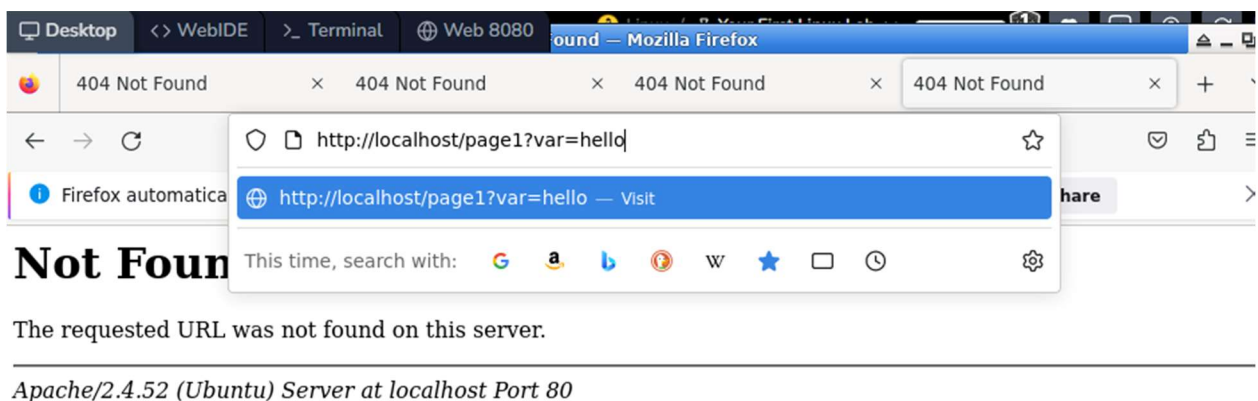
Server MPM: worker
labex:~/ $
```

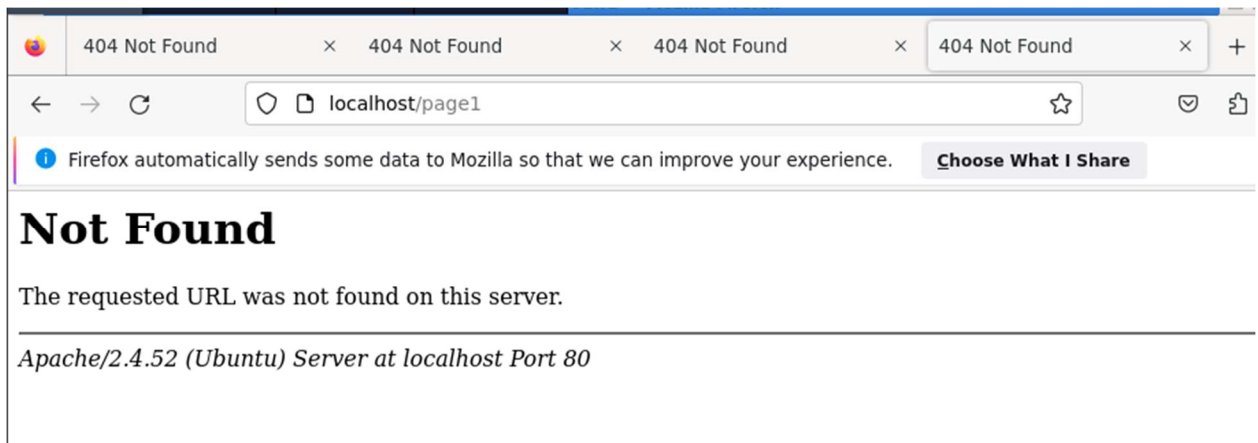
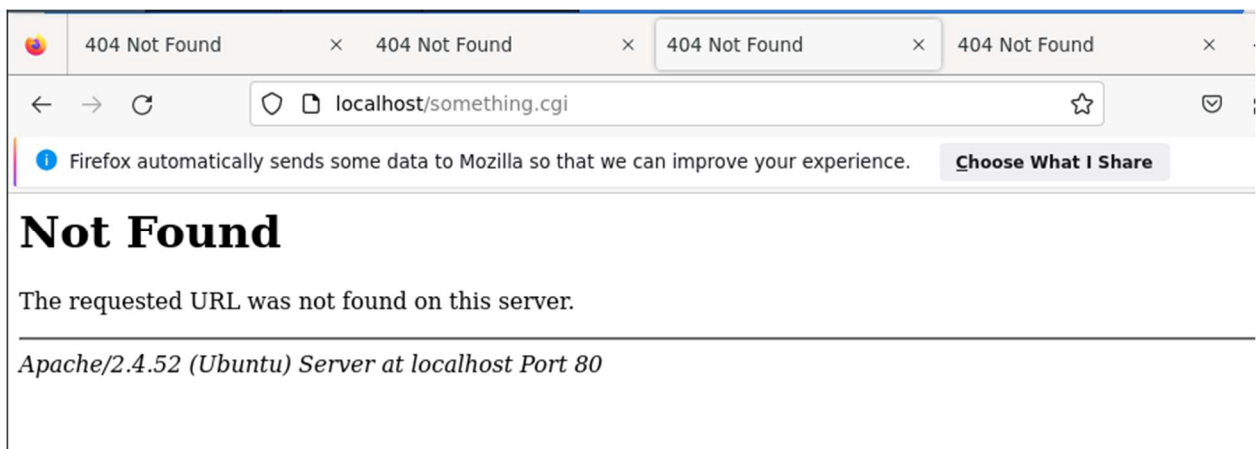
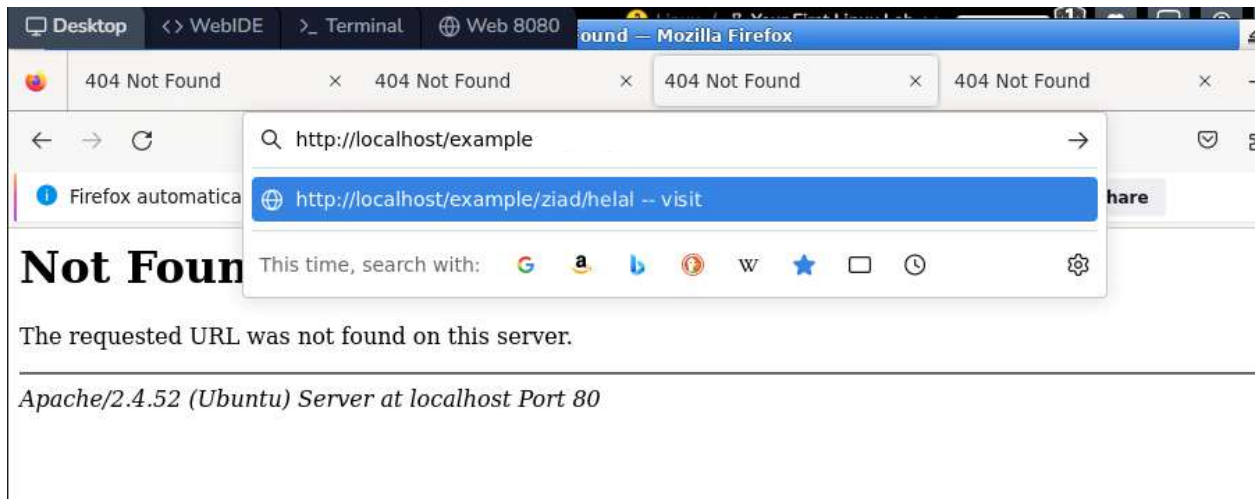
```
labex:~/ $ apachectl -M | grep rewrite

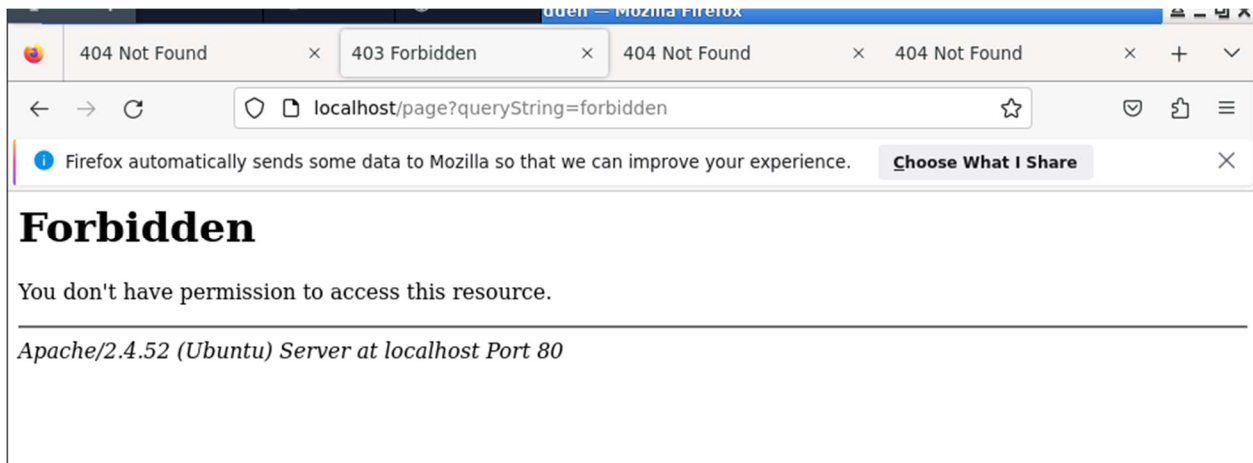
labex:~/ $ sudo a2enmod rewrite
sudo apachectl restart

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:~/ $
```







```
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/([^\s/]+)/([^\s/]+)$ /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        ^T Execute
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify
```

