===
===

1. Configure apache to use Worker MPM

```
 sok    /etc/apache2  >   16:32   sudo a2enmod mpm_worker
Considering conflict mpm_event for mpm_worker:
Considering conflict mpm_prefork for mpm_worker:
Module mpm_worker already enabled

 sok    /etc/apache2  >   16:32
```

```
IncludeOptional sites-enabled/*.conf

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

LoadModule mpm_worker_module modules/mod_mpm_worker.so


<IfModule mpm_worker_module>
 StartServers 2
 MinSpareThreads 25
 MaxSpareThreads 75
 ThreadsPerChild 25
 MaxRequestWorkers 150
</IfModule>


^G Help          ^O Write Out    ^W Where Is      ^K Cut
```

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

```
sok    /etc/apache2      16:34      sudo apachectl -M | grep rewrite
[Fri Jan 26 16:34:52.593692 2024] [so:warn] [pid 9784:tid 13970508
AH00558: apache2: Could not reliably determine the server's fully
sage
 rewrite_module (shared)

sok    /etc/apache2      16:34      sudo a2enmod rwrite
ERROR: Module rwrite does not exist!

sok    /etc/apache2      16:35      sudo a2enmod rewrite
Module rewrite already enabled

sok    /etc/apache2      16:35      []
```

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

```
  #Include conf-available/serve-cgi-bin.conf
  RewriteEngine on
  RewriteCond %{QUERY_STRING} ^.*forbidden.*$ [NC]
  RewriteRule \. - [F]
ualHost>
```

localhost/forq2/?Forbiddensadsa

ai-resourses   algorizms   Algorizms wit...   AWS-Tips

Forbidden

You don't have permission to access this resource.

Apache/2.4.52 (Ubuntu) Server at localhost Port 80

3.b. Remove the Query String

```
        RewriteEngine on
        RewriteCond %{QUERY_STRING} .+
        RewriteRule ^(.*)$ $1? [R]
/VirtualHost>
```

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

```
    #include conf-available/serve-cgi-bin.conf
    RewriteEngine on
    RewriteCond %{QUERY_STRING} "(.+)"
    RewriteRule "^/page1.html" "/page2.html" [R]
tualHost>
```

3.d Take a URL of the form http://localhost/path?var=val and transform it into http://localhost/path/var/val.

```
    RewriteEngine On
    RewriteRule ^page1.html$ /page1.html/%{QUERY_STRING}/| [R]
tualHost>
```

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

```
    #include conf-available/serve-cgi-bin.conf

    RewriteEngine On
    RewriteRule ^(.+)/(.+)/(.+)$ /something.cgi?arg=$1&other=$2 [QSA,L]

ualHost>
```

3.f Display a goodevening.html page if the time is after 6:00 PM and goodmooring.html page if the time is before that
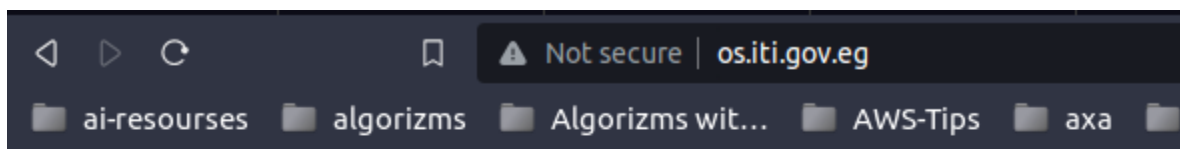
```apache
    RewriteEngine on
    RewriteCond %{TIME_HOUR} >=18
    RewriteRule (.*)$ /page1.html

    RewriteCond %{TIME_HOUR} <18
    RewriteRule (.*)$ /page2.html
```

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

```apache
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
<VirtualHost *:80>
ServerName os.iti.gov.eg
DocumentRoot /var/www/new
</VirtualHost>
```

```
127.0.0.1          localhost
127.0.1.1          sok-HP-Compaq-Pro-6300-MT
127.0.0.2          os.iti.gov.eg
# The following lines are desirable for IPv6 capa
::1      ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

Not secure | os.iti.gov.eg

ai-resourses   algorizms   Algorizms wit...   AWS-Tips   axa

Welcome to iti Vhost