

-REDIRECT HTTP TO HTTPS

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- edit the configuration file `/etc/httpd/conf.d/lpic2.conf`
- `$ sudo nano /etc/httpd/conf.d/yourdomain.conf`

```
<VirtualHost *:80>
```

```
ServerName lpic2.ir
```

```
ServerAlias www.lpic2.ir
```

```
Redirect permanent / https://lpic2.ir/
```

```
</VirtualHost>
```

- Restart apache
- `$sudo systemctl restart httpd`



-IMPLEMENT WEBDAV

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November 21, 2024

- **Install and start the apache(httpd):**

```
$ sudo dnf install httpd
```

```
$ sudo systemctl start httpd
```

```
$ sudo systemctl enable httpd
```

- **install webdev module**

```
$ sudo dnf install mod_dav mod_dav_fs
```

- **create a directory for webdev**

```
$ sudo mkdir /var/www/webdav
```

```
$ sudo chown apache:apache /var/www/webdav
```

```
$ sudo chmod 755 /var/www/webdav
```

- **create a configuration file**

```
$ sudo vi /etc/httpd/conf.d/webdav.conf
```

```
<Directory /var/www/webdav>  
Options Indexes FollowSymLinks  
AllowOverride None  
Require all granted  
</Directory>
```

```
<Location /webdav>  
DAV On  
AuthType Basic  
AuthName "WebDAV Restricted Area"  
AuthUserFile /etc/httpd/.htpasswd  
Require valid-user  
</Location>
```

- **Generate a password file**

```
$ sudo htpasswd -c /etc/httpd/.htpasswd erfan
```

it will ask for a password



-IMPLEMENT REVERSE PROXY WITH LOAD BALANCER

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November 21, 2024

- **Install and start the apache(httpd):**

```
$ sudo dnf install httpd
```

```
$ sudo systemctl start httpd
```

```
$ sudo systemctl enable httpd
```

- **install modules**

```
$ sudo dnf install mod_proxy mod_ssl
```

- **uncomment module in /etc/httpd/conf/httpd.conf**

```
LoadModule proxy_module modules/mod_proxy.so LoadModule proxy_http_module  
modules/mod_proxy_http.so
```

- **configure config file**

```
$ sudo vi /etc/httpd/conf.d/reverse-proxy.conf
```

```
<VirtualHost *:80>
```

```
    ServerName proxy.lpic2.ir
```

```
    ProxyPreserveHost On
```

```
    ProxyPass / http://192.168.31.213:8080/
```

```
    ProxyPassReverse / http://192.168.31.213:8080/
```

```
    Errorlog /var/log/httpd/reverse-proxy-error.log
```

```
    CustomLog /var/log/httpd/reverse-proxy-access.log combined
```

```
</VirtualHost>
```

- **restart webserver**

```
$ sudo systemctl restart httpd
```



- for adding loadbalancing when they are few backend server add in conf file

```
<Proxy "balancer://mycluster">  
  BalancerMember http://backend1:8080  
  BalancerMember http://backend2:8080  
</Proxy>  
  
ProxyPass / balancer://mycluster/  
ProxyPassReverse / balancer://mycluster/
```

