Redirect IP to Domain Name in Linux

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How to redirect IP to FQDN with HTTPS in Apache Webserver using mod_rewrite (Ubuntu 18,20,22)?

Overview: This article guides you through redirecting an IP address to an FQDN with HTTPS in Apache on Ubuntu 18, 20, and 22 using mod_rewrite. It includes enabling required modules, configuring virtual hosts for HTTP and HTTPS, modifying Apache settings to allow overrides, and setting up .htaccess rules to enforce redirection from http://192.168.1.1 to https://server.gateway.com/ezlogin/.

The objective of the article is to rewrite the URL from **http://192.168.1.1** to **https://server.gateway.com/ezlogin** using **.htaccess**

Step1. Enable the **rewrite** and **alias module** in Ubuntu.

```
root@ubuntu ~]# a2enmod rewrite alias

root@ubuntu ~]# systemctl restart apache2
```

Step 2. Create a **virtual host** for the domain name with ports **80** and **443**.

```
root@ubuntu ~]# vim /etc/apache2/sites-available/server.gateway.com.conf

<VirtualHost *:80>

ServerName server.gateway.com
DocumentRoot /var/www/html

<Directory /var/www/html>
AllowOverride All
</Directory>

</VirtualHost>
```

```
root@ubuntu ~]# vim /etc/apache2/sites-available/server.gateway.com-ssl.conf

<VirtualHost *:443>

ServerName server.gateway.com
DocumentRoot /var/www/html

<Directory /var/www/html>
AllowOverride All
</Directory>

</VirtualHost>
```

Step 3. Edit the **default apache configuration file** and add "**AllowOverride All**"

```
root@ubuntu ~]# vim /etc/apache2/sites-available/000-default.conf

<VirtualHost *:80>
ServerAdmin webmaster@localhost
DocumentRoot /var/www/html

<Directory /var/www/html>
AllowOverride All
</Directory>

</VirtualHost>
```

Step 4. Edit the **default apache SSL configuration file** and add "**AllowOverride All**"

```
root@ubuntu ~]# vim /etc/apache2/sites-available/default-ssl.conf
```

```
<IfModule mod_ssl.c>
<VirtualHost _default_:443>
ServerAdmin webmaster@localhost
DocumentRoot /var/www/html

<Directory /var/www/html>
AllowOverride All
</Directory>

SSLEngine on
SSLCertificateFile /etc/ssl/certs/apache-selfsigned.crt
SSLCertificateKeyFile /etc/ssl/private/apache-selfsigned.key

</VirtualHost>
</IfModule>
```

Step 5. Create a **.htaccess** file and add the below rules. Replace below domain name with your domain name.

```
root@ubuntu ~]# vim /var/www/html/.htaccess

RewriteEngine On

RewriteCond %{HTTP_HOST} !^server.gateway.com$
RewriteRule ^(.*)$ https://server.gateway.com/$1 [R=301,L]

RedirectMatch ^/$ https://server.gateway.com/ezlogin/
```

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