

Assignment 3

```
[root@master html]# cat /etc/sysconfig/network-scripts/ifcfg-ens33
```

```
TYPE="Ethernet"
```

```
PROXY_METHOD="none"
```

```
BROWSER_ONLY="no"
```

```
BOOTPROTO="static"
```

```
DEFROUTE="yes"
```

```
IPV4_FAILURE_FATAL="no"
```

```
IPV6INIT="yes"
```

```
IPV6_AUTOCONF="yes"
```

```
IPV6_DEFROUTE="yes"
```

```
IPV6_FAILURE_FATAL="no"
```

```
IPV6_ADDR_GEN_MODE="stable-privacy"
```

```
NAME="ens33"
```

```
DEVICE="ens33"
```

```
ONBOOT="yes"
```

```
#IPADDR=172.24.0.1
```

```
#NETMASK=255.255.0.0
```

```
IPADDR1=172.24.0.1
```

```
IPADDR2=172.24.0.2
```

```
PREFIX0=16
```

```
[root@master html]# _
```

As we are doing
Ip based virtual hosting
we must add the Ip addresses
used to host in ifcfg-ens33 file

```
[root@master html]# cd /var/www/html
```

```
[root@master html]# ls
```

```
website1 website2
```

```
[root@master html]# tree
```

```
.
├── website1
│   ├── error1.html
│   └── website1.html
└── website2
    ├── error2.html
    └── index.html
```

2 directories, 4 files

```
[root@master html]#
```

Next we create
2 directories in /var/www/html
Then we create error files
and homepage files in each
of them

```
[root@master html]# ls
website1 website2
[root@master html]# cd website1
[root@master website1]# cat website1.html
```

```
<!DOCTYPE html>
<html>
<head>
<title>This is Website 1</title>
<style>
body {
    background-colour: #ffffff;
}
h1 {
    font-size: 24px;
}
</style>
</head>
<body>
<h1>This is Website 1</h1>
</body>
</html>
```

→ homepage of website1
with file name as
website1.html

```
[root@master website1]# cat error1.html
```

```
<!DOCTYPE html>
<html>
<head>
<title>Web Gowl can stop you anywhere</title>
</head>
<body>
<h1>You should be an Authenticated user.Contact web gawd!</h1>
</body>
</html>
[root@master website1]# _
```

→ error file
for wrong
authentication

```
[root@master html]# ls
website1 website2
[root@master html]# cd website2
[root@master website2]# ls
error2.html index.html
[root@master website2]# cat index.html
this is website2
[root@master website2]# cat error2.html
<!DOCTYPE html>
<html>
<head>
<title>Web Gowl can stop you anywhere</title>
</head>
<body>
<h1>You should be an Authenticated user . Contact web gawd!</h1>
</body>
</html>
[root@master website2]#
```

Similarly for website2
but with homepage file
name as index.html

```
[root@master html1]# cat /etc/hosts
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1 localhost localhost.localdomain localhost6 localhost6.localdomain6
172.24.0.1 www.website1.com www -
172.24.0.2 www.website2.com www -
[root@master html1]# _
```

Next we have to change the hosts file in both server and clients

[To get the functionality of DNS]

Next we must change the httpd.conf file

```
#
# Listen: Allows you to bind Apache to specific IP addresses and/or
# ports, instead of the default. See also the <VirtualHost>
# directive.
#
```

```
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
```

```
#Listen 12.34.56.78:80
```

```
Listen 80
```

```
Listen 15
```

} Adding required ports

For server to listen from different ports we must change this directive

```
#
# Dynamic Shared Object (DSO) Support
#
```

```
# To be able to use the functionality of a module which was built as a DSO you
```

```
#
# Require all granted
</Directory>
```

Adding file names that can be served

```
#
# DirectoryIndex: sets the file that Apache will serve if a directory
# is requested.
#
```

```
<IfModule dir_module>
```

```
    DirectoryIndex website1.html index.html error1.html error2.html
</IfModule>
```

```
#
# The following lines prevent .htaccess and .htpasswd files from being
# viewed by Web clients.
#
```

```
<VirtualHost 172.24.0.1:15>
    ServerName 172.24.0.1
    DocumentRoot /var/www/html/website1
</VirtualHost>
<VirtualHost 172.24.0.2:80>
    ServerName 172.24.0.2
    DocumentRoot /var/www/html/website2
</VirtualHost>
```

We can specify the
required port here

Adding Virtual
host

```
<Directory /var/www/html/website1>
    <RequireAll>
        Require ip 172.24.0.10 C10
        Require not ip 172.24.0.20 C20
    </RequireAll>
</Directory>

<Directory /var/www/html/website2>
    <RequireAll>
        Require ip 172.24.0.20 C20
        Require not ip 172.24.0.10 C10
    </RequireAll>
</Directory>
```

Granting access to
specific IP addresses

```
[root@master /]# htpasswd -c -m /etc/httpd/webpass user1
New password:
Re-type new password:
Adding password for user user1
[root@master /]# htpasswd -m /etc/httpd/webpass user2
New password:
Re-type new password:
Adding password for user user2
[root@master /]# htpasswd -m /etc/httpd/webpass user3
New password:
Re-type new password:
Adding password for user user3
[root@master /]# htpasswd -m /etc/httpd/webpass user4
New password:
Re-type new password:
Adding password for user user4
[root@master /]# _
```

Creating Users for
Authentication

```
<Directory /var/www/html/website1>  
    AuthType Basic  
    AuthName "Restriction"  
    AuthUserFile "/etc/httpd/webpass"
```

```
    <RequireAll>  
        Require ip 172.24.0.10  
        Require not ip 172.24.0.20  
        Require user user1 user3  
    </RequireAll>
```

} Required IPs

} Required users

```
    <Files "error1.html">  
        Require all granted  
    </Files>
```

```
    ErrorDocument 401 /error1.html
```

} file to show

for wrong authentication

```
</Directory>
```

```
<Directory /var/www/html/website2>  
    AuthType Basic  
    AuthName "Restriction"  
    AuthUserFile "/etc/httpd/webpass"
```

```
    <RequireAll>  
        Require ip 172.24.0.20  
        Require not ip 172.24.0.10  
        Require user user2 user4  
    </RequireAll>
```

```
    <Files "error1.html">  
        Require all granted  
    </Files>
```

```
    ErrorDocument 401 /error1.html
```

```
</Directory>
```

Verification with C10

```
[root@c10 ~]# elinks http://user1:123456@www.website1.com:15
```

This is Website 1

This is Website 1

```
[root@c10 ~]# elinks http://user2:123456@www.website1.com:15_
```

You should be an Authenticated user.Contact web gawd!

Web Gowd can stop you anywhere

Authentication required for Restriction at http://www.website1.com:15

Login: user2_

Password: *****

[OK] [Cancel]

```
[root@c10 ~]# elinks http://user2:123456@www.website2.com_
```

http://user2@www.website2.com/

Your Connection is not allowed to access this website