

APACHE WEB SERVER

Install package http

```
[root@vivek ~]# yum install http* -y
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use
Last metadata expiration check: 1 day, 1:39:41 ago on Tue 01 Mar 2022 03:35:
Package httpd-2.4.37-21.module+el8.2.0+5008+cca404a3.x86_64 is already insta
Package httpd-filesystem-2.4.37-21.module+el8.2.0+5008+cca404a3.noarch is al
Package httpd-tools-2.4.37-21.module+el8.2.0+5008+cca404a3.x86_64 is already
Dependencies resolved.
```

Service start

```
[root@vivek ~]# systemctl start httpd
[root@vivek ~]# systemctl enable httpd
[root@vivek ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor p
  Drop-In: /usr/lib/systemd/system/httpd.service.d
           └─php-fpm.conf
   Active: active (running) since Tue 2022-03-01 05:48:15 EST; 23h ago
     Docs: man:httpd.service(8)
```

Firewall Configuration

```
[root@vivek ~]# firewall-cmd --permanent --zone=public --add-port=80/tcp
success
[root@vivek ~]# firewall-cmd --permanent --zone=public --add-port=443/tcp
success
[root@vivek ~]# firewall-cmd --permanent --zone=public --add-service=http
Warning: ALREADY_ENABLED: http
success
[root@vivek ~]# firewall-cmd --permanent --zone=public --add-service=https
Warning: ALREADY_ENABLED: https
success
[root@vivek ~]# firewall-cmd --reload
success
[root@vivek ~]# firewall-cmd --list-port
80/tcp 443/tcp
```

Enable selinux ports

```
[root@vivek ~]# semanage port -l | grep http_port_t
http_port_t                tcp      80, 81, 443, 488, 8008, 8009, 8443, 9000
pegasus_http_port_t        tcp      5988
[root@vivek ~]# semanage port -a -t http_port_t -p tcp 80
ValueError: Port tcp/80 already defined
[root@vivek ~]# semanage port -a -t http_port_t -p tcp 443
ValueError: Port tcp/443 already defined
```

Go to html path and create file

```
[root@vivek ~]# cd /var/www/html/
[root@vivek html]# ls
index.php  license.txt  wordpress  wp-admin
latest.zip  readme.html  wp-activate.php  wp-blog-head
[root@vivek html]# vim index.html
```

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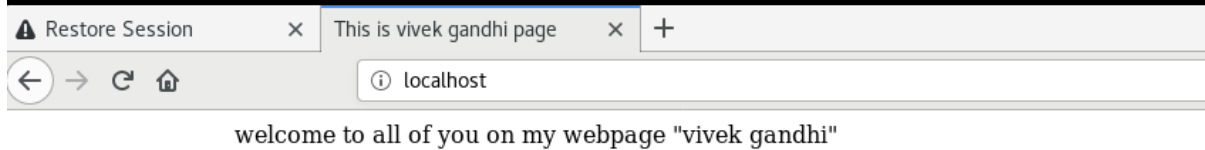
Configuration file insert any line

```
<html>
  <title> This is vivek gandhi page </title>
<body>
  <marquee> welcome to all of you on my webpage "vivek gandhi" </marquee>
</body>
</html>
```

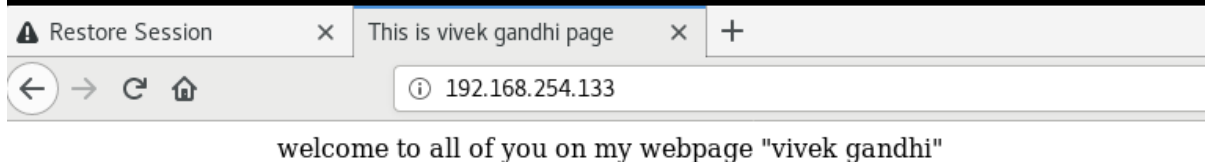
Restart service httpd

```
[root@vivek html]# systemctl restart httpd
```

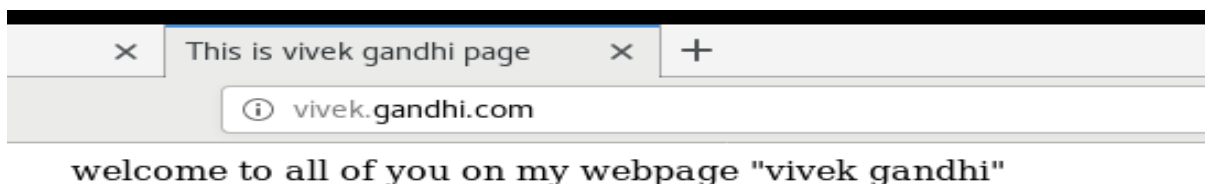
Go to browser and check



Check via ip

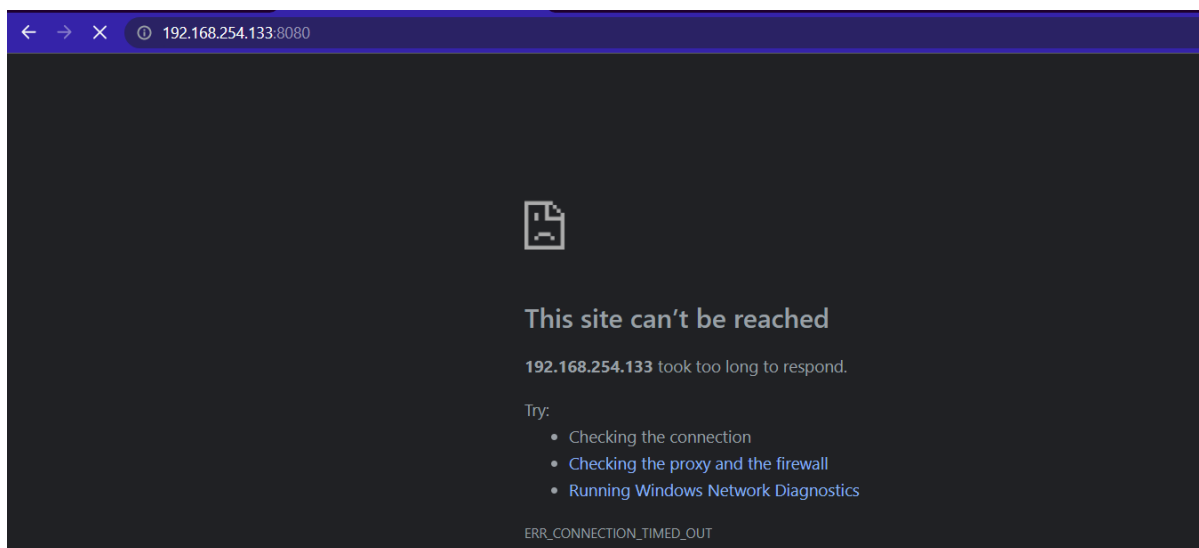


Another system search then check result



APACHE WEB SERVER

Task -2Port change



Modification httpd

```
[root@vivek ~]# vim /etc/httpd/conf/httpd.conf
[root@vivek ~]#
```

Modification port

```
#Listen 12.34.56.78:80
Listen 80
Listen 8080
```

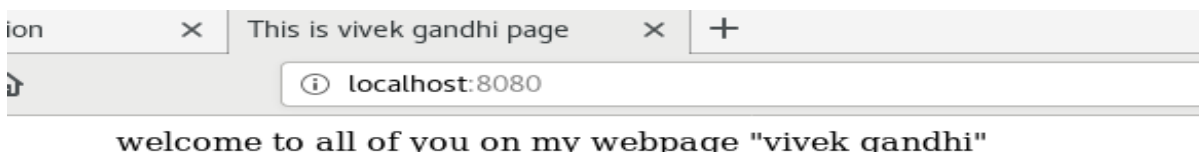
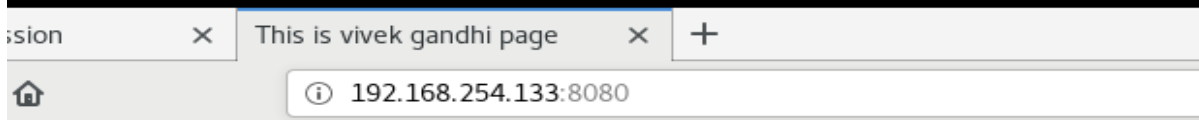
Restart service

```
[root@vivek conf]# systemctl restart httpd
[root@vivek conf]#
```

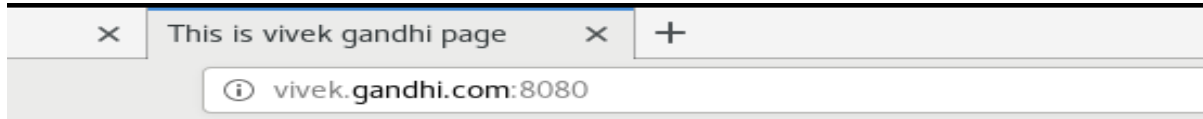
Check ports

```
[root@vivek conf]# netstat -tlnp | grep httpd
tcp6      0      0 :::8080                :::*                    LISTEN      8705/httpd
tcp6      0      0 :::80                  :::*                    LISTEN      8705/httpd
[root@vivek conf]# ss -tlnp | grep httpd
LISTEN    0      128                *:8080                  *:*                    users: (("httpd",
LISTEN    0      128                *:80                    *:*                    users: (("httpd",
[root@vivek conf]#
```

o/p



APACHE WEB SERVER



welcome to all of you on my webpage "vivek gandhi"

Task -3

```
[root@vivek ~]# systemctl disable httpd
```

```
[root@vivek ~]#  
[root@vivek ~]#  
[root@vivek ~]# mkdir -p /var/www/gandhi.com/html  
[root@vivek ~]# mkdir -p /var/www/gandhi.com/log  
[root@vivek ~]# chown -R $USER:$USER /var/www/gandhi.com/html  
[root@vivek ~]# chmod -R 755 /var/www  
[root@vivek ~]#
```

```
[root@vivek ~]# vim /var/www/gandhi.com/html/index.html  
<html>  
  <head>  
    <title>Welcome to gandhi.com!</title>  
  </head>  
  <body>  
    <h1>Success! The gandhi.com virtual host is up and perfectly working!</h1>  
  </body>  
</html>
```

```
[root@vivek httpd]# mkdir /etc/httpd/sites-available  
[root@vivek httpd]# mkdir /etc/httpd/sites-enabled  
[root@vivek httpd]#
```

```
[root@vivek httpd]# vim /etc/httpd/conf/httpd.conf
```

```
# Example:  
# LoadModule foo_module modules/mod_foo.so  
#  
Include conf.modules.d/*.conf  
IncludeOptional sites-enabled/*.conf  
#
```

```
[root@vivek httpd]# vim /etc/httpd/sites-available/gandhi.com  
<VirtualHost *:80>  
  ServerName vivek.gandhi.com  
  ServerAlias gandhi.com  
  DocumentRoot /var/www/gandhi.com/html  
  ErrorLog /var/www/gandhi.com/log/error.log  
  CustomLog /var/www/gandhi.com/log/requests.log combined  
</VirtualHost>
```

```
[root@vivek httpd]# ln -s /etc/httpd/sites-available/gandhi.com.conf /etc/httpd/sites-enabled/gandhi.com.conf  
[root@vivek httpd]#
```

```
[root@vivek httpd]#  
[root@vivek httpd]# ls -dlZ /var/www/gandhi.com/log/
```

```
[root@vivek httpd]# ls -dlZ /var/www/gandhi.com/log/  
drwxr-xr-x. 2 root root unconfined_u:object_r:httpd_sys_content_t:s0 6 Mar  3 00:44 /var/www/gandhi.com/log/  
[root@vivek httpd]#
```

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```
[root@vivek httpd]# semanage fcontext -a -t httpd_log_t "/var/www/gandhi.com/log(/.*)?"  
[root@vivek httpd]#
```

```
[root@vivek httpd]# restorecon -R -v /var/www/gandhi.com/log  
Relabeled /var/www/gandhi.com/log from unconfined_u:object_r:httpd_sys_content_t:s0 to unconfined_u:object_r:httpd_log_t:s0  
[root@vivek httpd]# ls -dlZ /var/www/gandhi.com/log/  
drwxr-xr-x. 2 root root unconfined_u:object_r:httpd_log_t:s0 6 Mar  3 00:44 /var/www/gandhi.com/log/  
[root@vivek httpd]#
```

Pending

Task

New

```
[root@vivek html]# vi /etc/hosts  
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4  
::1         localhost localhost.localdomain localhost6 localhost6.localdomain6  
192.168.254.133 vivek.gandhi.com vivek  
192.168.254.133 webserver1.example.com webserver1  
192.168.254.133 webserver2.example.com webserver2  
192.168.254.139 pooja.gandhi.com pooja  
~
```

```
[root@vivek html]# mkdir /var/www/html/webserver1  
[root@vivek html]# mkdir /var/www/html/webserver2  
[root@vivek html]#
```

```
[root@vivek webserver1]# vim /var/www/html/webserver2/index.html  
<html>  
  <head>  
    <title>www.example2.com</title>  
  </head>  
  <body>  
    <h1>Hello, Welcome to www.example2.com.</h1>  
  </body>  
</html>  
~  
~
```

```
[root@vivek webserver1]# vim /var/www/html/webserver1/index.html  
<html>  
  <head>  
    <title>www.example1.com</title>  
  </head>  
  <body>  
    <h1>Hello, Welcome to www.example1.com.</h1>  
  </body>  
</html>  
~
```

```
[root@vivek html]# systemctl restart httpd  
[root@vivek html]# cd /etc/httpd/conf.d/  
[root@vivek conf.d]# ls  
autoindex.conf manual.conf php.conf README userdir.conf welcome.conf  
[root@vivek conf.d]#
```

```
[root@vivek conf.d]# mkdir /var/log/httpd/webserver1  
[root@vivek conf.d]# mkdir /var/log/httpd/webserver2
```

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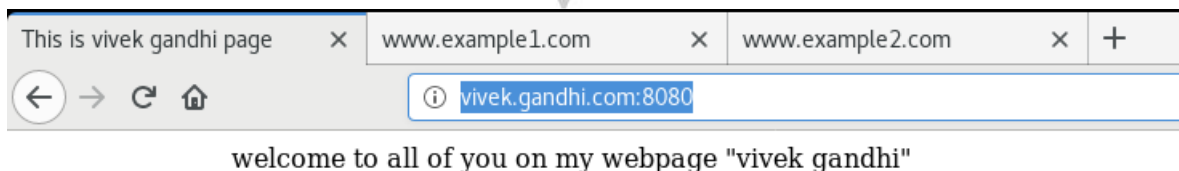
```
[root@vivek conf.d]# vim webserver1.conf
<VirtualHost *:80>
servername webserver1.example.com
ErrorLog /var/log/httpd/webserver1/error.log
customlog /var/log/httpd/webserver1/access.log combined
documentroot /var/www/html/webserver1
</VirtualHost>

<directory /var/www/html/webserver1>
require all granted
</directory>
~
~
```

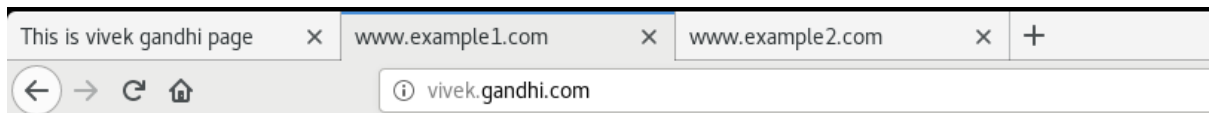
```
[root@vivek conf.d]# cp webserver1.conf webserver2.conf
[root@vivek conf.d]# vim webserver2.conf
<VirtualHost *:80>
servername webserver2.example.com
ErrorLog /var/log/httpd/webserver2/error.log
customlog /var/log/httpd/webserver2/access.log combined
documentroot /var/www/html/webserver2
</VirtualHost>

<directory /var/www/html/webserver2>
require all granted
</directory>
~
```

8080 port example



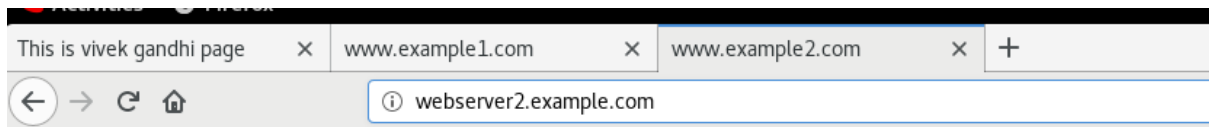
Vivek.gandhi.com example



Hello, Welcome to www.example1.com.

.

Example 2



Hello, Welcome to www.example2.com.

