

Apache Web Server Hosting a Single Web Site

Install Apache Web Server

To install apache web server on a Redhat Based system use following command.

```
sudo yum install httpd -y
```

```
[admin@demosrv ~]$ sudo yum install httpd -y_
```

Once the apache web server is installed, its default configuration file httpd.conf is stored in the /etc/httpd/conf directory. However the default configuration is sufficient to host a website for a small to midium organization.

The web pages i.e. html files need to be present in the /var/www/html directory.

Thus go to the /var/www/html directory and create an html page. By default the apache web server looks for index.html file in this directory. Thus you need to create a file by this name.

```
cd /var/www/html
```

```
sudo vi index.html
```

Type "This is the first website hosted on Apache Webserver"

Save the file.

Now start the apache service.

```
sudo systemctl start httpd
```

Verify if the service started successfully using

```
sudo systemctl status httpd
```

```
[admin@demosrv html]$ sudo systemctl start httpd
[admin@demosrv html]$ sudo systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
   Active: active (running) since Thu 2025-09-25 19:24:20 IST; 9s ago
     Invocation: d88013a2a7d34bceb54add63797c02f2
       Docs: man: httpd.service(8)
    Main PID: 4980 (httpd)
      Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
       Tasks: 177 (limit: 22951)
      Memory: 13.5M (peak: 14M)
         CPU: 306ms
    CGroup: /system.slice/httpd.service
            └─4980 /usr/sbin/httpd -DFOREGROUND
              └─4981 /usr/sbin/httpd -DFOREGROUND
                └─4982 /usr/sbin/httpd -DFOREGROUND
                  └─4983 /usr/sbin/httpd -DFOREGROUND
                    └─5079 /usr/sbin/httpd -DFOREGROUND

Sep 25 19:24:20 demosrv systemd[1]: Starting httpd.service - The Apache HTTP Server...
Sep 25 19:24:20 demosrv httpd[4980]: httpd.service: Referenced but unset environment variable evaluates
Sep 25 19:24:20 demosrv httpd[4980]: AH00558: httpd: Could not reliably determine the server's fully qual
Sep 25 19:24:20 demosrv httpd[4980]: Server configured, listening on: port 80
Sep 25 19:24:20 demosrv systemd[1]: Started httpd.service - The Apache HTTP Server.
lines 1-22/22 (END)
```

Type q to exit.

Now verify using curl command. You may need to install the curl package.

```
curl http://localhost
curl http://192.168.100.1
```

```
[admin@demosrv html]$ curl http://192.168.100.1
This is the first website hosted on Apache webserver.
```

If curl is not present then you will need to install the curl package.

```
sudo yum install curl -y
```

This is how it is easy to host a simple html website using Apache web server.