

1. Hosting a website on Apache

- In this project . I will install, configure the `apache web server` .A static website will be hosted on the `apche server` on my machine.

Step 1:

First of all i would like to check and confirm the user information. The user who logged in in the system. . I will run the command

```
whoami
```

```
[ali@www ~]$ whoami  
ali
```

On this system the current user logged in has a user account with the name `ali`

It is a good practice to check the `current working directory` in the start . So run the command

```
pwd
```

```
[ali@www ~]$ pwd  
/home/ali
```

- The current working directory is `/home/ali`

Moving on let me check the `hostname` of the system. The command is :

```
hostname
```

```
[ali@www ~]$ hostname  
www.talha.com
```

- My current hostname is `www.talha.com` . I want to change the hostname to `www.myproject.com` . For that i have to run the following command:

```
hostnamectl set-hostname www.myproject.com
```

- Check the information about your system

1. Operating System Information

- To check the `Linux Release version` of the OS and its name we run the command

```
cat /etc/redhat-release
```

```
[ali@www ~]$ cat /etc/redhat-release
Rocky Linux release 9.3 (Blue Onyx)
```

We are using the OS `Rocky` .

- To check more details about the `OS` and its different `attributes` run the command :

```
cat /etc/os-release
```

```
[ali@www ~]$ cat /etc/os-release
NAME="Rocky Linux"
VERSION="9.3 (Blue Onyx)"
ID="rocky"
ID_LIKE="rhel centos fedora"
VERSION_ID="9.3"
PLATFORM_ID="platform:el9"
PRETTY_NAME="Rocky Linux 9.3 (Blue Onyx)"
ANSI_COLOR="0;32"
LOGO="fedora-logo-icon"
CPE_NAME="cpe:/o:rocky:rocky:9::baseos"
HOME_URL="https://rockylinux.org/"
BUG_REPORT_URL="https://bugs.rockylinux.org/"
SUPPORT_END="2032-05-31"
ROCKY_SUPPORT_PRODUCT="Rocky-Linux-9"
ROCKY_SUPPORT_PRODUCT_VERSION="9.3"
REDHAT_SUPPORT_PRODUCT="Rocky Linux"
REDHAT_SUPPORT_PRODUCT_VERSION="9.3"
```

- Now I would like to check that my operating system is up to date or not. Is there any new updates available for it. To just check the `updates available` for the current `OS`

run the command. If your user do not have `root` privileges either add the user in `wheel` or use the `sudo` . Sudo stands for `super user do` :

```
sudo dnf check-update
```

```
[ali@www ~]$ sudo dnf check-update
[sudo] password for ali:
^lsudo: a password is required
[ali@www ~]$
[ali@www ~]$ sudo dnf check-update
[sudo] password for ali:
Last metadata expiration check: 0:14:40 ago on Thu 23 May 2024 02:49:09 PM WIB.

NetworkManager.x86_64                               1:1.46.0-4.el9_4      baseos
NetworkManager-adsl.x86_64                           1:1.46.0-4.el9_4      baseos
NetworkManager-bluetooth.x86_64                     1:1.46.0-4.el9_4      baseos
NetworkManager-config-server.noarch                 1:1.46.0-4.el9_4      baseos
NetworkManager-libnm.x86_64                         1:1.46.0-4.el9_4      baseos
NetworkManager-team.x86_64                          1:1.46.0-4.el9_4      baseos
NetworkManager-tui.x86_64                           1:1.46.0-4.el9_4      baseos
NetworkManager-wifi.x86_64                          1:1.46.0-4.el9_4      baseos
NetworkManager-wwan.x86_64                          1:1.46.0-4.el9_4      baseos
PackageKit.x86_64                                    1.2.6-1.el9           appstream
PackageKit-command-not-found.x86_64                 1.2.6-1.el9           appstream
PackageKit-glib.x86_64                              1.2.6-1.el9           appstream
PackageKit-gstreamer-plugin.x86_64                  1.2.6-1.el9           appstream
PackageKit-gtk3-module.x86_64                      1.2.6-1.el9           appstream
nardvark-dns.x86_64                                 2:1.10.0-3.el9_4      appstream
acl.x86_64                                           2.3.1-4.el9           baseos
alsa-lib.x86_64                                     1.2.10-2.el9          appstream

xdg-desktop-portal-gnome.x86_64                     41.2-3.el9            appstream
xfsdump.x86_64                                       3.1.12-4.el9_3        baseos
xfsprogs.x86_64                                      6.3.0-1.el9           baseos
xorg-x11-server-Xorg.x86_64                         1.20.11-24.el9        appstream
xorg-x11-server-Xwayland.x86_64                     22.1.9-5.el9          appstream
xorg-x11-server-common.x86_64                       1.20.11-24.el9        appstream
yum.noarch                                           4.14.0-9.el9          baseos

Obsoleting Packages
grub2-tools.x86_64                                  1:2.06-77.el9         baseos
  grub2-tools.x86_64                               1:2.06-70.el9_3.1.rocky.0.2 @anaconda
grub2-tools-efi.x86_64                             1:2.06-77.el9         baseos
  grub2-tools.x86_64                               1:2.06-70.el9_3.1.rocky.0.2 @anaconda
grub2-tools-extra.x86_64                           1:2.06-77.el9         baseos
  grub2-tools.x86_64                               1:2.06-70.el9_3.1.rocky.0.2 @anaconda
grub2-tools-minimal.x86_64                         1:2.06-77.el9         baseos
  grub2-tools.x86_64                               1:2.06-70.el9_3.1.rocky.0.2 @anaconda
```

- I consider it important for my current project to `update` my `machine` before i deploy the `web server` . For that I will run the command

```
#To cek the list of all available updates and size of to
sudo dnf update
```

```

xorg-x11-server-common      x86_64      1.20.11-24.el9      appstream      35 k
yum                          noarch      4.14.0-9.el9        baseos          88 k
Installing dependencies:
grub2-tools-efi             x86_64      1:2.06-77.el9        baseos          540 k
grub2-tools-extra           x86_64      1:2.06-77.el9        baseos          840 k
kernel-core                 x86_64      5.14.0-427.16.1.el9_4 baseos          21 M
kernel-modules              x86_64      5.14.0-427.16.1.el9_4 baseos          39 M
kernel-modules-core         x86_64      5.14.0-427.16.1.el9_4 baseos          33 M
pipewire-jack-audio-connection-kit-libs x86_64      1.0.1-1.el9          appstream      134 k
Installing weak dependencies:
evolution-data-server-ui    x86_64      3.40.4-9.el9         appstream      82 k

Transaction Summary
=====
Install      8 Packages
Upgrade    431 Packages

Total size: 1.2 G
Total download size: 1.2 G
Is this ok [y/N]: S

```

If i press **y** new updates will be installed , which are in a total size of **1.2 G**

- But i wanted to install them directly without prompting me a confirmation question. So, i will use the command

```
#Running this command will directly install the packages with
sudo dnf update -y
```

```

yum-4.14.0-9.el9.noarch
Installed:
evolution-data-server-ui-3.40.4-9.el9.x86_64      grub2-tools-efi-1:2.06-77.el9.x86_64
grub2-tools-extra-1:2.06-77.el9.x86_64           kernel-5.14.0-427.16.1.el9_4.x86_64
kernel-core-5.14.0-427.16.1.el9_4.x86_64         kernel-modules-5.14.0-427.16.1.el9_4.x86_64
kernel-modules-core-5.14.0-427.16.1.el9_4.x86_64 pipewire-jack-audio-connection-kit-libs-1.0.1-1.el9.x86_64
Complete!
[ali@www ~]$

```

- Installation complete

Note: It is consider a good practice to take a **snapshot** of the machine before any update and upgrade. (snapshot means backup)

- I will do rest of my work in **mobaXterm** remote client. I have to create a **SSH session security shell session** . Secure Shell protocol use the **port 21**
- To establish a connection i must know the **ip address** of my machine.
- To check the **ip address** of my machine i can run the following commands :

```
# All of the following commands will work fine
ifconfig

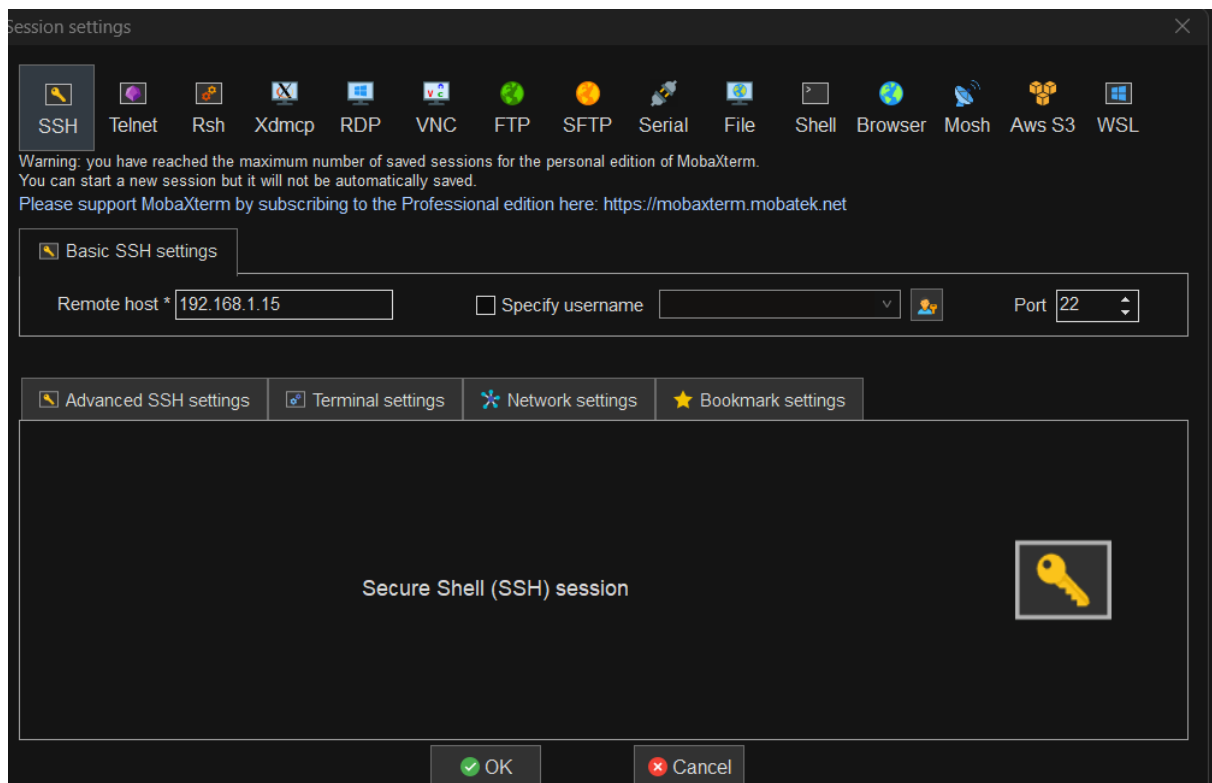
ip a
```

ip add

```
[ali@www ~]$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.15 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::a00:27ff:fef9:b7c2 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:f9:b7:c2 txqueuelen 1000 (Ethernet)
    RX packets 1081010 bytes 1426158189 (1.3 GiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 300421 bytes 18162194 (17.3 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 42 bytes 4494 (4.3 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 42 bytes 4494 (4.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

- The **ip address** of my **machine** is **192.168.1.15**. I will login using the **192.168.1.15** in the **moBaXterm**.



- This time i logged in as a **root user**

```
[root@www ~]# pwd
/root
[root@www ~]# whoami
root
[root@www ~]# hostname
www.myproject.com
[root@www ~]#
```

Installation of Apache server:

- The apache server package in Linux is called `httpd` .
- To utilize the package we have to `install and configure` the `httpd` so we can host our website.
- Before installation we have to check either the `apache` is already installed in our machine or not. We will run the command :

```
# Checking any Apache httpd package is installed or not
rpm -qa | grep httpd
```

```
[root@www ~]# rpm -qa | grep httpd
[root@www ~]#
```

The image shows that there is no `httpd` apache package is installed.

- We can check the available `httpd` package by running the command:

```
# To check the package availability and version number
dnf list httpd
```

```
[root@www ~]# dnf list httpd
Last metadata expiration check: 0:21:31 ago on Fri 24 May 2024 12:04:40 AM WIB.
Available Packages
httpd.x86_64                               2.4.57-8.el9
```

- The output shows that there is one package available. But, we have to keep ourselves on safe side. Sometimes, a software package has other dependencies without it the main

package does not work. We can check the other packages and dependencies by running the command

```
dnf list httpd*
```

```
[root@www ~]# dnf list httpd*
Last metadata expiration check: 0:21:47 ago on Fri 24 May 2024 12:04:40 AM WIB.
Available Packages
httpd.x86_64                                2.4.57-8.el9
httpd-core.x86_64                          2.4.57-8.el9
httpd-devel.x86_64                         2.4.57-8.el9
httpd-filesystem.noarch                   2.4.57-8.el9
httpd-manual.noarch                       2.4.57-8.el9
httpd-tools.x86_64                        2.4.57-8.el9
[root@www ~]#
```

- To install the `apache httpd` and it's related dependencies we run the command :

```
dnf install -y httpd*
```

```
[root@www ~]# dnf install -y httpd*
Last metadata expiration check: 0:30:02 ago on Fri 24 May 2024 12:04:40 AM WIB.
Dependencies resolved.
=====
Package                                Architecture          Version
=====
Installing:
httpd                                  x86_64                2.4.57-8.el9
httpd-core                            x86_64                2.4.57-8.el9
httpd-devel                           x86_64                2.4.57-8.el9
httpd-filesystem                      noarch                2.4.57-8.el9
httpd-manual                          noarch                2.4.57-8.el9
httpd-tools                           x86_64                2.4.57-8.el9
Installing dependencies:
apr                                    x86_64                1.7.0-12.el9_3
apr-devel                             x86_64                1.7.0-12.el9_3
apr-util                              x86_64                1.6.1-23.el9
apr-util-bdb                          x86_64                1.6.1-23.el9
apr-util-devel                        x86_64                1.6.1-23.el9
cyrus-sasl                            x86_64                2.1.27-21.el9
cyrus-sasl-devel                     x86_64                2.1.27-21.el9
expat-devel                           x86_64                2.5.0-2.el9_4
libdb-devel                           x86_64                5.3.28-53.el9
openldap-devel                        x86_64                2.6.6-3.el9
rocky-logos-httpd                    noarch                90.15-2.el9
Installing weak dependencies:
apr-util-openssl                      x86_64                1.6.1-23.el9
mod_http2                             x86_64                2.0.26-2.el9_4
mod_lua                               x86_64                2.4.57-8.el9
=====
Transaction Summary
=====
Install 20 Packages
```

```
Installed:
apr-1.7.0-12.el9_3.x86_64      apr-devel-1.7.0-12.el9_3.x86_64      apr-util-1.6.1-23.el9.x86_64      apr-util-bdb-1.6.1-23.el9.x86_64
apr-util-devel-1.6.1-23.el9.x86_64  apr-util-openssl-1.6.1-23.el9.x86_64  cyrus-sasl-2.1.27-21.el9.x86_64  cyrus-sasl-devel-2.1.27-21.el9.x86_64
expat-devel-2.5.0-2.el9_4.x86_64  httpd-2.4.57-8.el9.x86_64      httpd-core-2.4.57-8.el9.x86_64  httpd-devel-2.4.57-8.el9.x86_64
httpd-filesystem-2.4.57-8.el9.noarch  httpd-manual-2.4.57-8.el9.noarch  httpd-tools-2.4.57-8.el9.x86_64  libdb-devel-5.3.28-53.el9.x86_64
mod_http2-2.0.26-2.el9_4.x86_64  mod_lua-2.4.57-8.el9.x86_64      openldap-devel-2.6.6-3.el9.x86_64  rocky-logos-httpd-90.15-2.el9.noarch

Complete!
```

- After the installation is complete we can run the following command to check wither the package and its dependencies are installed completely:

```
rpm -qa | grep httpd*
```

OR

```
dnf install httpd*
```

```
[root@www ~]# rpm -qa | grep httpd*
libnghttp2-1.43.0-5.el9_3.1.x86_64
httpd-tools-2.4.57-8.el9.x86_64
httpd-filesystem-2.4.57-8.el9.noarch
httpd-core-2.4.57-8.el9.x86_64
rocky-logos-httpd-90.15-2.el9.noarch
mod_http2-2.0.26-2.el9_4.x86_64
httpd-2.4.57-8.el9.x86_64
httpd-devel-2.4.57-8.el9.x86_64
httpd-manual-2.4.57-8.el9.noarch
```

- The image shows that the packages are installed on the system.
- Now , we will check the `status` of our `http server` by running the command:

```
systemctl status httpd.service
```

```
[root@www ~]# systemctl status httpd.service
○ httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
   Active: inactive (dead)
   Docs: man:httpd.service(8)

May 23 14:40:31 www.talha.com systemd[1]: Starting The Apache HTTP Server...
May 23 14:40:36 www.talha.com httpd[1047]: Server configured, listening on: port 443, port 80
May 23 14:40:36 www.talha.com systemd[1]: Started The Apache HTTP Server.
May 24 00:18:07 www.myproject.com systemd[1]: Stopping The Apache HTTP Server...
May 24 00:18:09 www.myproject.com systemd[1]: httpd.service: Deactivated successfully.
May 24 00:18:09 www.myproject.com systemd[1]: Stopped The Apache HTTP Server.
May 24 00:18:09 www.myproject.com systemd[1]: httpd.service: Consumed 1min 12.884s CPU time.
```

- To `activate` the `http server` we will run the command:

```
systemctl start httpd.service
```


- When you will run the `systemctl start httpd.service` command and it does not show any error message. This shows that the service has started. To check it run the `status` command again:

```
systemctl status httpd.service
```

```
[root@www ~]# systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: disabled)
   Active: active (running) since Fri 2024-05-24 00:50:21 WIB; 4min 24s ago
   TriggeredBy: ● httpd.socket
     Docs: man:httpd.service(8)
    Main PID: 81821 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
     Tasks: 177 (limit: 19286)
    Memory: 52.0M
       CPU: 2.650s
    CGroup: /system.slice/httpd.service
            └─81821 /usr/sbin/httpd -DFOREGROUND
              └─81822 /usr/sbin/httpd -DFOREGROUND
                └─81823 /usr/sbin/httpd -DFOREGROUND
                  └─81824 /usr/sbin/httpd -DFOREGROUND
                    └─81825 /usr/sbin/httpd -DFOREGROUND

May 24 00:50:19 www.myproject.com systemd[1]: Starting The Apache HTTP Server...
May 24 00:50:21 www.myproject.com httpd[81821]: Server configured. listening on: ::c8c6:a848:fe7f:0 port 80
```

- The `httpd service` is up and running. To allow it to start as the system start we use the `enable` command.

```
systemctl enable httpd.service --now
```

- Similarly if we to `stop, restart, reload and disable` a service we can do that using the following commands:

```
#To stop a service
systemctl stop httpd.service
```

```
#To restart a service
systemctl restart httpd.service
```

```
#To reload a service
systemctl restart httpd.service
```

```
#To disable a service
systemctl disable httpd.service
```

- The website code after the installation of `apache server` will be placed in `cd /var/www/html`

Setting up firewall in machine and adding HTTP port to firewall:

- The default port for the `http` is `80`. To make it running in our machine we have to add the `port 80` to our firewall.
- In Linux firewall is already installed and enabled. But there is a possibility that it might be turned off for some reason. So, it is a good practice to always check the firewall. In Linux pre-installed firewall is called `firewalld`. Although there are some lighter versions of firewall e.g. `ufw` is available. But it is recommended to use the `firewalld`
- Check the current status of firewall by running the status command :

```
#These both commands will give same results
systemctl status firewalld
```

OR

```
systemctl status firewalld.service
```

```
[root@www ~]# systemctl status firewalld
● firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; preset: enabled)
   Active: active (running) since Thu 2024-05-23 14:40:21 WIB; 10h ago
     Docs: man:firewalld(1)
    Main PID: 895 (firewalld)
      Tasks: 4 (limit: 19286)
    Memory: 36.9M
       CPU: 7.483s
    CGroup: /system.slice/firewalld.service
            └─895 /usr/bin/python3 -s /usr/sbin/firewalld --nofork --nopid

May 23 14:40:16 www.talha.com systemd[1]: Starting firewalld - dynamic firewall daemon...
May 23 14:40:21 www.talha.com systemd[1]: Started firewalld - dynamic firewall daemon.
[root@www ~]# systemctl status firewalld.service
● firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; preset: enabled)
   Active: active (running) since Thu 2024-05-23 14:40:21 WIB; 10h ago
     Docs: man:firewalld(1)
    Main PID: 895 (firewalld)
      Tasks: 4 (limit: 19286)
    Memory: 36.9M
       CPU: 7.483s
    CGroup: /system.slice/firewalld.service
            └─895 /usr/bin/python3 -s /usr/sbin/firewalld --nofork --nopid

May 23 14:40:16 www.talha.com systemd[1]: Starting firewalld - dynamic firewall daemon...
May 23 14:40:21 www.talha.com systemd[1]: Started firewalld - dynamic firewall daemon.
```

- As we have checked that the `firewalld` is up and running. Now we will add the `http` to our firewall. The command is:

```
firewall-cmd --permanent --add-service=http --zone=public
```

```
[root@www ~]# firewall-cmd --permanent --add-service=http --zone=public
success
[root@www ~]# █
```

- After successfully adding the `http` on the firewall. It is necessary to `reload` the firewall.

```
firewall-cmd --reload
```

```
[root@www ~]# firewall-cmd --reload
success
[root@www ~]# █
```

- To check the list of all the services added to firewall we run the following command :

```
firewall-cmd --list-all
```

```
# or to be specific
```

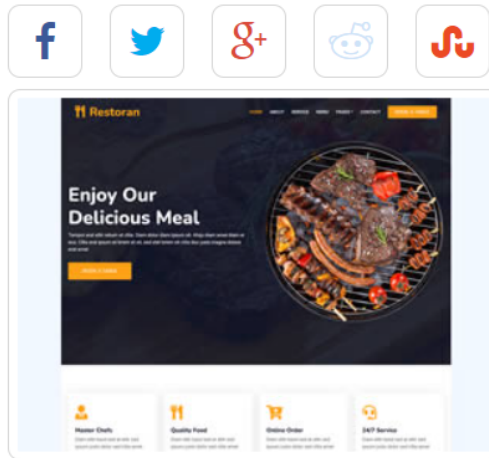
```
firewallcmd --list-services
```

```
[root@www ~]# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: enp0s3
  sources:
  services: cockpit dhcpv6-client http https ssh
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[root@www ~]# firewall-cmd --list-services
cockpit dhcpv6-client http https ssh
```

Download a Sample Website:

- For our project and practice we will download the code of the website from a website. Which we will deploy on our `apache server.
- Some website offers free code of `websites` we can download the code from those website as per our choice.
- Let's download a code from the website <https://www.free-css.com/> . I have decided to download the code of the following website:

RESTORAN FREE CSS TEMPLATE



HTML Codex

HTML 5

Responsive, 4 Columns

Dark on Light

Creative Commons

30 March 2023

Bootstrap, Cafe or Restaurant, Food or Drink, jQuery, Responsive

DOWNLOAD

LIVE DEMO

« [Brighton Template](#) | [Templates](#) | [Brainwave Template](#) »

The download url is <https://www.free-css.com/assets/files/free-css-templates/download/page290/restoran.zip>

- To download the `template` direct in my `Linux Machine` i will use the `wget` command. I will run the following command to download the `zip` file of the code:

```
wget https://www.free-css.com/assets/files/free-css-templates
```

```
[root@www ~]# wget https://www.free-css.com/assets/files/free-css-templates/download/page290/restoran.zip
--2024-05-25 16:37:47-- https://www.free-css.com/assets/files/free-css-templates/download/page290/restoran.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000::28f
Connecting to www.free-css.com (www.free-css.com)[217.160.0.242]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1552247 (1.5M) [application/zip]
Saving to: 'restoran.zip'

restoran.zip          100%[=====] 1.48M  78.9KB/s  in 20s
2024-05-25 16:38:12 (74.5 KB/s) - 'restoran.zip' saved [1552247/1552247]

[root@www ~]# ls -ltr
total 1700
-rw-r--r-- 1 root root 1552247 Jan  7 2022 restoran.zip
```

- The code of the website is downloaded as file name `restoran.zip`

Moving to code to the **apache** file system and unzipping:

- To utilize the code for the **apache server** and host the website. We have to move the **downloaded file** from our **/root/home** to the directory **var/www/html**. We can use the **mv** to completely move the file. Also, we can use the **cp** copy command to keep the file on the **home directory** as well as in the desired directory. I will go for the **cp** command:

```
cp restoran.zip /var/www/html
```

```
[root@www ~]# cp restoran.zip /var/www/html/
[root@www ~]# cd /var/www/html/
[root@www html]# ls
restoran.zip
```

- After copying and checking now i will **unzip** the code . First go to the directory **/var/www/html** . Now unzip the code using the command **unzip restoran.zip**

```
unzip restoran.zip
```

```
[root@www html]# unzip restoran.zip
Archive:  restoran.zip
  inflating: bootstrap-restaurant-template/about.html
  inflating: bootstrap-restaurant-template/booking.html
  inflating: bootstrap-restaurant-template/bootstrap-restaurant-template.jpg
  inflating: bootstrap-restaurant-template/contact.html
  creating: bootstrap-restaurant-template/css/
  inflating: bootstrap-restaurant-template/css/bootstrap.min.css
  inflating: bootstrap-restaurant-template/css/style.css
  creating: bootstrap-restaurant-template/img/
```

```
  inflating: bootstrap-restaurant-template/service.html
  inflating: bootstrap-restaurant-template/team.html
  inflating: bootstrap-restaurant-template/testimonial.html
[root@www html]# ls
bootstrap-restaurant-template  restoran.zip
[root@www html]#
```

- We can remove the **zip file** which is named as **restoran.zip** . Run the command :

```
rm -rf restoran.zip
```

```
bootstrap-restaurant-template restoran.zip
[root@www html]# rm -rf restoran.zip
```

- Now, we have to copy all the files present in the unzipped folder which is `cd /var/www/html/bootstrap-restaurant-template/`.
- When in folder `/var/www/html/bootstrap-restaurant-template/` run the following copy command to copy all the content of the folder to its parent directory. Which in current stage will be `/var/www/html`. The command is :

```
cp -r * ..
```

```
[root@www html]# cd bootstrap-restaurant-template/
[root@www bootstrap-restaurant-template]# cp -r * ..
[root@www bootstrap-restaurant-template]# cd ..
[root@www html]# ls
about.html          bootstrap-restaurant-template.jpg  img          lib          READ-ME.txt  team.html
booking.html        contact.html                      index.html   LICENSE.txt  scss         testimonial.html
bootstrap-restaurant-template  css          js          menu.html   service.html
[root@www html]# cd bootstrap-restaurant-template/
bootstrap-restaurant-template/ img/ lib/
```

- We can now remove the directory `/bootstrap-restaurant-template/`. Run the command :

```
rm -rf /bootstrap-restaurant-template/
```

```
[root@www html]# ls
about.html          bootstrap-restaurant-template.jpg  img          lib          READ-ME.txt  team.html
booking.html        contact.html                      index.html   LICENSE.txt  scss         testimonial.html
bootstrap-restaurant-template  css          js          menu.html   service.html
[root@www html]# rm -rf bootstrap-restaurant-template
[root@www html]# ls
about.html          bootstrap-restaurant-template.jpg  css          index.html  lib          menu.html  READ-ME.txt  scss         team.html
booking.html        contact.html                      img          js          LICENSE.txt  service.html  testimonial.html
[root@www html]#
```

It is a good practice to restart the `http service` after deploying your website. Run the command `systemctl restart httpd.service`

- The `website` is `up and hosted` we can check it on our terminal first using the command

```
curl localhost
```

#OR use your IP address
`curl 192.168.1.15`

- We can open the **web browser** e.g **chrome or firefox** and use our **ip address** which is **192.168.1.15** to check the website is running.

