4. Web Services

Apache HTTP Server
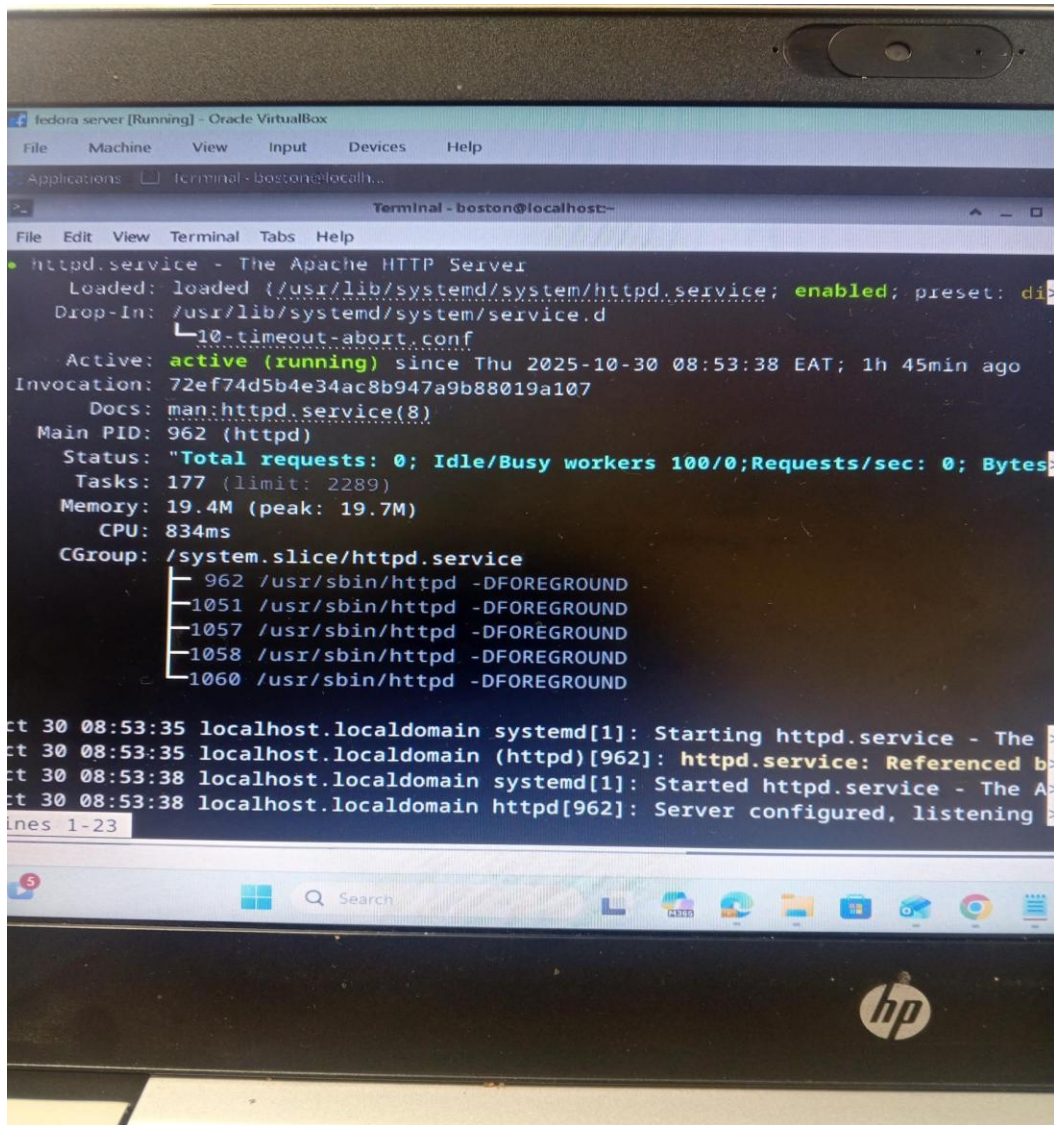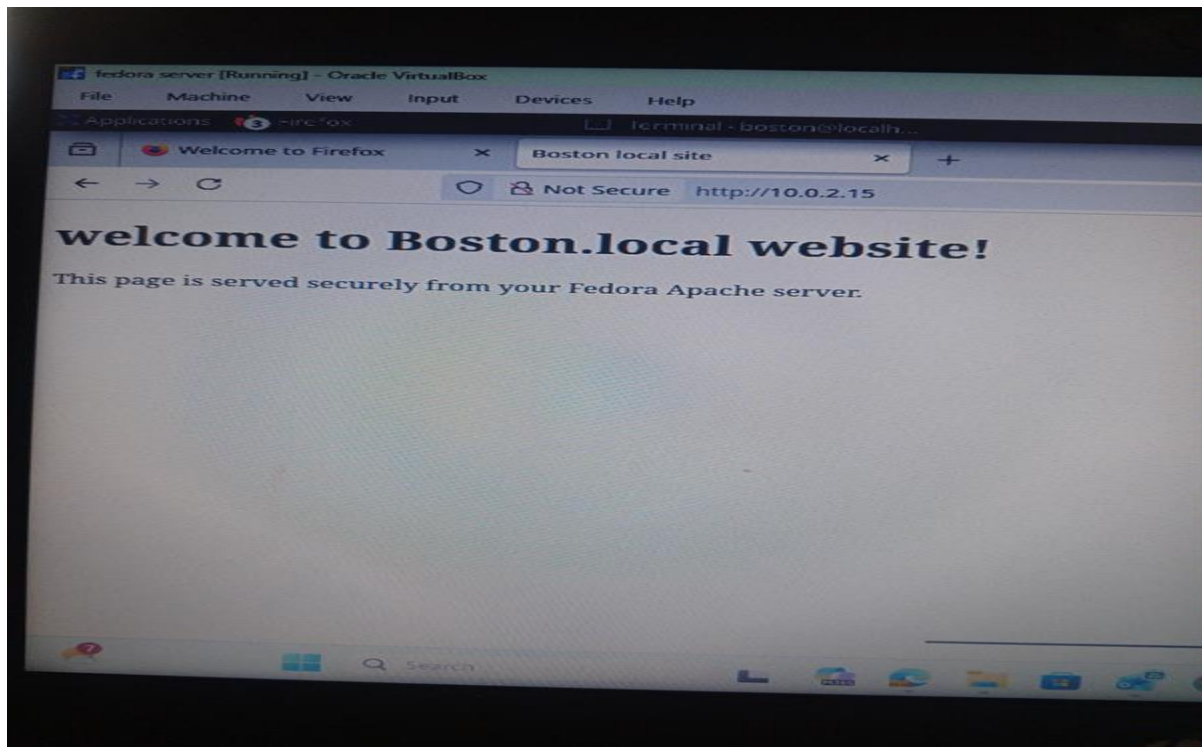
Install

sudo dnf install httpd -y

sudo systemctl start httpd

sudo systemctl enable httpd

systemctl status httpd

Open your fedora browser

Test 10.0.2.15 for me this is my server ip

SSL / HTTPS

sudo dnf install mod_ssl -y

sudo openssl req -newkey rsa:2048 -nodes -keyout /etc/pki/tls/private/server.key -x509 -days 365 -out /etc/pki/tls/certs/server.crt

Enable SSL

sudo systemctl restart httpd

sudo nano /etc/httpd/conf.d/ssl.conf

Security

sudo systemctl status firewalld

allow http

sudo firewall-cmd --permanent --add-service=http

sudo firewall-cmd --permanent --add-service=https

sudo firewall-cmd –reload

Allow custom port (e.g. 8080):

sudo firewall-cmd --permanent --add-port=8080/tcp

sudo firewall-cmd –reload

View rules

sudo firewall-cmd --list-all

OpenVPN

sudo dnf install openvpn -y

start

sudo systemctl start openvpn-server@server

sudo systemctl enable openvpn-server@server

sudo systemctl status openvpn-server@server

```
Drop-In: /usr/lib/systemd/system/service.d
         └─10-timeout-abort.conf
   Active: active (running) since Thu 2025-10-30 08:53:36 EAT; 3h 11min ago
Invocation: c29e6a7744a5488a97af484a2d9b606e
     Docs: man:openvpn(8)
           https://openvpn.net/community-resources/reference-manual-for-openv>
           https://community.openvpn.net/openvpn/wiki/HOWTO
 Main PID: 971 (openvpn)
   Status: "Initialization Sequence Completed"
    Tasks: 1 (limit: 2289)
   Memory: 3.1M (peak: 3.3M)
      CPU: 393ms
   CGroup: /system.slice/system-openvpn\x2dserver.slice/openvpn-server@server>
           └─971 /usr/bin/openvpn --status /run/openvpn-server/status-server.>

Oct 30 08:53:36 localhost.localdomain openvpn[971]: Socket Buffers: R=[212992->>
Oct 30 08:53:36 localhost.localdomain openvpn[971]: UDPv4 link local (bound): [
Oct 30 08:53:36 localhost.localdomain openvpn[971]: UDPv4 link remote: [AF_UNSP>
Oct 30 08:53:36 localhost.localdomain openvpn[971]: UID set to nobody
Oct 30 08:53:36 localhost.localdomain openvpn[971]: GID set to nobody
Oct 30 08:53:36 localhost.localdomain openvpn[971]: Capabilities retained: CAP_>

boston@localhost:~$ sudo nano /etc/openvpn/server/server.conf
```

On your fedora browser test ssl https

Test https:/ 10.0.2.15 for me this is my server ip

Welcome to Firefox   ×   Boston local site   ×   ⚠ Warning: Potential Security ×   +

→ C   🔒 Not Secure   10.0.2.15   ☆

⚠ **Warning: Potential Security Risk Ahead**

Firefox detected a potential security threat and did not continue to **10.0.2.15**. If you visit this site, attackers could try to steal information like your passwords, emails, or credit card details.

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