

# App servers and Web Servers

- Install nginx and run nginx on port number 81.

```
http://98.93.39.25:81
```

## Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](http://nginx.org).  
Commercial support is available at [nginx.com](http://nginx.com).

*Thank you for using nginx.*

```
root@ip-172-31-72-11 html]# lsof -i tcp:81
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME
nginx 7622 root 8u IPv4 101475 0t0 TCP *:81 (LISTEN)
nginx 7622 root 9u IPv6 101476 0t0 TCP *:81 (LISTEN)
nginx 7623 nginx 8u IPv4 101475 0t0 TCP *:81 (LISTEN)
nginx 7623 nginx 9u IPv6 101476 0t0 TCP *:81 (LISTEN)
nginx 7624 nginx 8u IPv4 101475 0t0 TCP *:81 (LISTEN)
nginx 7624 nginx 9u IPv6 101476 0t0 TCP *:81 (LISTEN)
nginx 7624 nginx 10u IPv4 101604 0t0 TCP ip-172-31-72-11.ec2.internal:81->124.123.188.21.actcorp.in:29749 (ESTABLISHED)
```

- Deploy a sample index.html file on Nginx.

```
http://98.93.39.25:81
```

## Welcome Home Suckers!

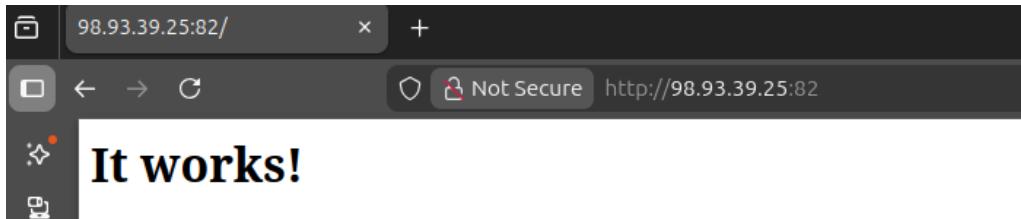
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to [nginx.org](http://nginx.org).  
Commercial support is available at [nginx.com](http://nginx.com).

*Thank you for using nginx.*

# App servers and Web Servers

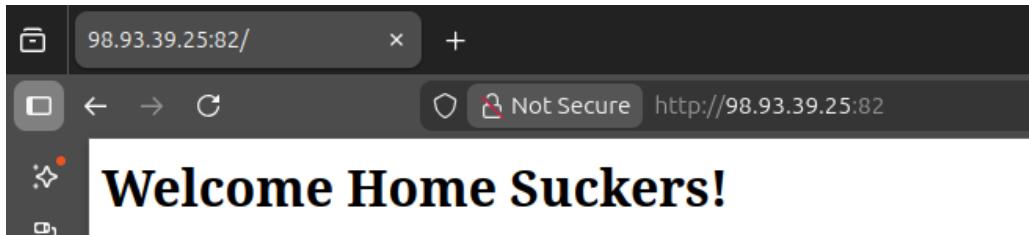
- Install Apache and run Apache on port number 82.



```
[root@ip-172-31-72-11 conf]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
   Active: active (running) since Wed 2025-12-17 06:02:12 UTC; 3s ago
     Docs: man:httpd.service(8)
 Main PID: 5286 (httpd)
    Status: "Started, listening on: port 82"
      Tasks: 177 (limit: 1009)
     Memory: 13.6M
        CPU: 60ms
      CGroup: /system.slice/httpd.service
              ├─5286 /usr/sbin/httpd -DFOREGROUND
              ├─5287 /usr/sbin/httpd -DFOREGROUND
              ├─5288 /usr/sbin/httpd -DFOREGROUND
              ├─5289 /usr/sbin/httpd -DFOREGROUND
              └─5290 /usr/sbin/httpd -DFOREGROUND

Dec 17 06:02:12 ip-172-31-72-11.ec2.internal systemd[1]: Starting httpd.service - The Apache HTTP Server...
Dec 17 06:02:12 ip-172-31-72-11.ec2.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Dec 17 06:02:12 ip-172-31-72-11.ec2.internal httpd[5286]: Server configured, listening on: port 82
```

- Deploy a sample index.html file on Apache.



# App servers and Web Servers

- Install Apache tomcat on port number 8082.

```
● tomcat.service - Apache Tomcat Web Application Container
   Loaded: loaded (/etc/systemd/system/tomcat.service; disabled; preset: disabled)
   Active: active (running) since Wed 2025-12-17 07:40:16 UTC; 1min 24s ago
     Process: 10590 ExecStart=/opt/tomcat/bin/startup.sh (code=exited, status=0/SUCCESS)
    Main PID: 10597 (java)
      Tasks: 30 (limit: 1009)
        Memory: 73.0M
          CPU: 4.674s
        CGroup: /system.slice/tomcat.service
                └─10597 /usr/lib/jvm/jre-17/bin/java -Djava.util.logging.config.file=/opt/tomcat/conf/logging.prop
```

- Deploy a sample app on webapps.

To prove that they work, you can execute either of the following links:

- To a [JSP page](#).
- To a [servlet](#).

- Create a tomcat.service file for tomcat.

```
[root@ip-172-31-72-11 ~]# find / -name tomcat.service
/etc/systemd/system/tomcat.service
/sys/fs/cgroup/system.slice/tomcat.service
```

- Configure HA Proxy server.

```
[root@ip-172-31-72-11 conf]# for i in {1..6}; do curl -H "Connection: close" http://localhost; done
Backend server 1
Backend server 2
Backend server 1
Backend server 2
Backend server 1
Backend server 2
```