

Apache Web Server Installation & Maintenance

Troubleshooting

During the installation and configuration of the Apache web server, I faced repeated issues while trying to start the Apache service. Although the installation process completed successfully, every time I ran the command

```
sudo systemctl start apache2,
```

the service failed to start and displayed the message:

“Job for apache2.service failed because the control process exited with error code.”

I checked the logs using

```
sudo journalctl -xeu apache2.service
```

and also tested the configuration with

```
sudo apache2ctl configtest.
```

Despite multiple attempts to correct the issue by rechecking configuration files, firewall settings, and directory permissions, the problem persisted. It appeared to be a configuration or port conflict error that I could not resolve within the lab time.

As a result, the Apache service could not be started successfully on my system. However, the troubleshooting process helped me better understand how Apache manages its configuration files, services, and dependencies.

```
y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
apache2 is already the newest version (2.4.58-1ubuntu8.8).  
The following package was automatically installed and is no longer required:  
  libllvm19  
Use 'sudo apt autoremove' to remove it.  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
tafriya-amin-habiba@tafriya-amin-habiba-VirtualBox:~$ sudo systemctl status apache2  
● apache2.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: >  
     Active: failed (Result: exit-code) since Sat 2025-11-08 23:45:49 +06; 2min>  
       Docs: https://httpd.apache.org/docs/2.4/  
     Process: 1033 ExecStart=/usr/sbin/apachectl start (code=exited, status=1/FA>  
        CPU: 401ms  
  
Nov 08 23:45:48 tafriya-amin-habiba-VirtualBox systemd[1]: Starting apache2.ser>  
Nov 08 23:45:49 tafriya-amin-habiba-VirtualBox apachectl[1060]: AH00558: apache>  
Nov 08 23:45:49 tafriya-amin-habiba-VirtualBox systemd[1]: apache2.service: Con>  
Nov 08 23:45:49 tafriya-amin-habiba-VirtualBox systemd[1]: apache2.service: Fai>  
Nov 08 23:45:49 tafriya-amin-habiba-VirtualBox systemd[1]: Failed to start apac>  
lines 1-12/12 (END)
```

```
tafriya-amin-habiba@tafriya-amin-habiba-Vir... x tafriya-amin-habiba@tafriya-amin-habiba-Vir... x v  
tafriya-amin-habiba@tafriya-amin-habiba-VirtualBox:~$ sudo journalctl -xeu apache2.service  
[sudo] password for tafriya-amin-habiba:  
Nov 08 23:45:49 tafriya-amin-habiba-VirtualBox apachectl[1060]: AH00558: apache>  
Nov 08 23:45:49 tafriya-amin-habiba-VirtualBox systemd[1]: apache2.service: Con>  
  Subject: Unit process exited  
  Defined-By: systemd  
  Support: http://www.ubuntu.com/support  
  
  An ExecStart= process belonging to unit apache2.service has exited.  
  
  The process' exit code is 'exited' and its exit status is 1.  
Nov 08 23:45:49 tafriya-amin-habiba-VirtualBox systemd[1]: apache2.service: Fai>  
  Subject: Unit failed  
  Defined-By: systemd  
  Support: http://www.ubuntu.com/support  
  
  The unit apache2.service has entered the 'failed' state with result 'exit-co>  
Nov 08 23:45:49 tafriya-amin-habiba-VirtualBox systemd[1]: Failed to start apac>  
  Subject: A start job for unit apache2.service has failed  
  Defined-By: systemd  
  Support: http://www.ubuntu.com/support  
  
  A start job for unit apache2.service has finished with a failure.
```