

INSTALLATION OF nginx

Step :1

- Update the package
- Command : `sudo apt update`

Step :2

- Install nginx
- Command : `sudo apt install nginx`

Step :3

- Enable the nginx service
- Command : `sudo systemctl enable nginx`

Step :4

- Start the nginx service
- Command : `sudo systemctl start nginx`

Step :4

- Observe the nginx process
- Command : `ps aux | grep nginx`
- It check the running process

Step :5

- Check the port used by nginx
- Find out which port nginx is listening on
- Command : `sudo lsof -i -P -n | grep LISTEN | grep nginx`

Step :6

- Get the status of the nginx service
- Command : `sudo systemctl status nginx`

Step :7

- Stop the nginx service
- Command : `sudo systemctl stop nginx`

Step :8

- Start the nginx service again

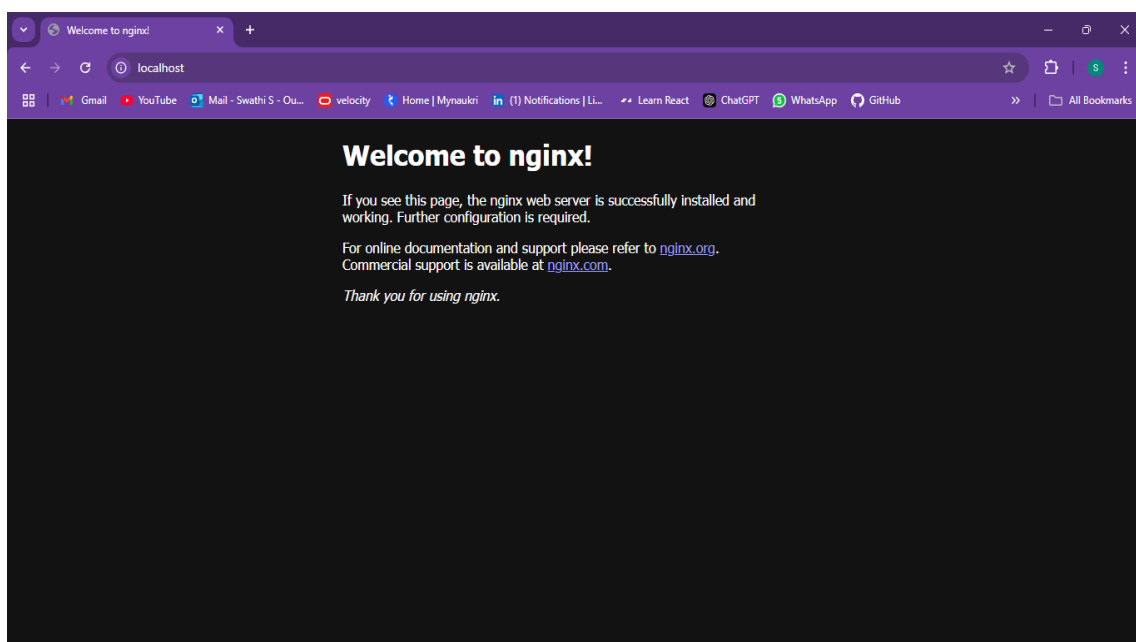
- Command : `sudo systemctl start nginx`

Step :9

- Kill the nginx process
- To manually kill nginx process first find out the process ID (PID)
- `ps aux | grep nginx`
- `pidof nginx`
- `sudo kill -TERM <PID>`

SCREENSHOT

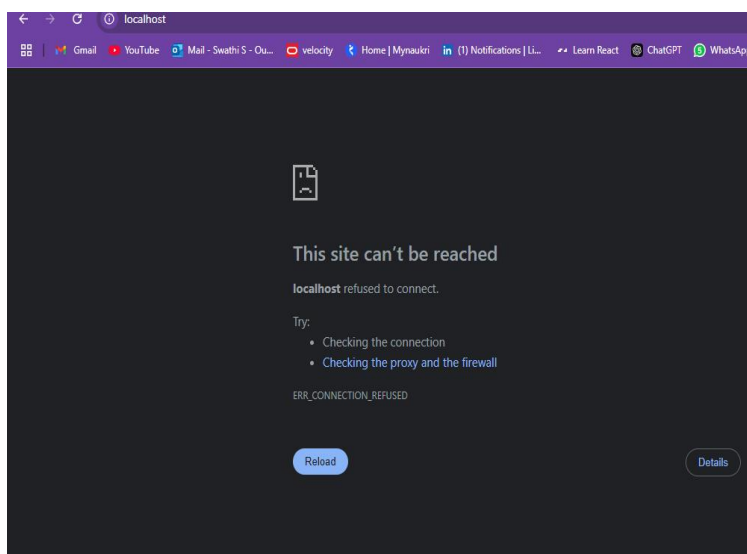
```
swathi@LAPTOP-53BB887S: ~$ sudo apt update
[sudo] password for swathi:
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
37 packages can be upgraded. Run 'apt list --upgradable' to see them.
swathi@LAPTOP-53BB887S:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nginx is already the newest version (1.24.0-2ubuntu7.1).
0 upgraded, 0 newly installed, 0 to remove and 37 not upgraded.
swathi@LAPTOP-53BB887S:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
swathi@LAPTOP-53BB887S:~$ sudo systemctl start nginx
swathi@LAPTOP-53BB887S:~$ ps aux | grep nginx
root      188  0.0  0.0 11156  972 ?        Ss   05:23   0:00 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;
www-data  190  0.0  0.1 12880  4264 ?        S    05:23   0:00 nginx: worker process
www-data  191  0.0  0.1 12880  4264 ?        S    05:23   0:00 nginx: worker process
www-data  192  0.0  0.1 12880  4264 ?        S    05:23   0:00 nginx: worker process
www-data  193  0.0  0.1 12880  4264 ?        S    05:23   0:00 nginx: worker process
www-data  194  0.0  0.1 12880  4264 ?        S    05:23   0:00 nginx: worker process
www-data  195  0.0  0.1 12880  4264 ?        S    05:23   0:00 nginx: worker process
www-data  196  0.0  0.1 12880  4264 ?        S    05:23   0:00 nginx: worker process
www-data  197  0.0  0.1 12880  4264 ?        S    05:23   0:00 nginx: worker process
swathi    814  0.0  0.0  4088  2064 pts/0    S+   05:33   0:00 grep --color=auto nginx
swathi@LAPTOP-53BB887S:~$ sudo ss -i -P -n | grep LISTEN | grep nginx
nginx    188      root      5u  IPv4  23708      0t0  TCP *:80 (LISTEN)
nginx    188      root      6u  IPv6  23709      0t0  TCP *:80 (LISTEN)
nginx    190      www-data  5u  IPv4  23708      0t0  TCP *:80 (LISTEN)
```



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swathi@LAPTOP-53BBB875: ~$ sudo ss -tln | grep LISTEN | grep nginx
nginx 188      root      5u      IPv4    23708      0t0      TCP *:80 (LISTEN)
nginx 188      root      6u      IPv6    23709      0t0      TCP *:80 (LISTEN)
nginx 190      www-data 5u      IPv4    23708      0t0      TCP *:80 (LISTEN)
nginx 190      www-data 6u      IPv6    23709      0t0      TCP *:80 (LISTEN)
nginx 191      www-data 5u      IPv4    23708      0t0      TCP *:80 (LISTEN)
nginx 191      www-data 6u      IPv6    23709      0t0      TCP *:80 (LISTEN)
nginx 192      www-data 5u      IPv4    23708      0t0      TCP *:80 (LISTEN)
nginx 192      www-data 6u      IPv6    23709      0t0      TCP *:80 (LISTEN)
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nginx 197      www-data 5u      IPv4    23708      0t0      TCP *:80 (LISTEN)
nginx 197      www-data 6u      IPv6    23709      0t0      TCP *:80 (LISTEN)
swathi@LAPTOP-53BBB875:~$ sudo systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
   Active: active (running) since Mon 2024-11-04 05:23:38 UTC; 10min ago
     Docs: man:nginx(8)
    Main PID: 188 (nginx)
      Tasks: 9 (limit: 4560)
    Memory: 7.2M ()
    CGroup: /system.slice/nginx.service
            └─188 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
              └─190 "nginx: worker process"
                └─191 "nginx: worker process"
                  └─192 "nginx: worker process"
                    └─193 "nginx: worker process"
                      └─194 "nginx: worker process"
                        └─195 "nginx: worker process"
```

```
swathi@LAPTOP-53BBB875:~$ sudo systemctl status nginx
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                └─191 "nginx: worker process"
                  └─192 "nginx: worker process"
                    └─193 "nginx: worker process"
                      └─194 "nginx: worker process"
                        └─195 "nginx: worker process"
                          └─196 "nginx: worker process"
                            └─197 "nginx: worker process"

Nov 04 05:23:38 LAPTOP-53BBB875 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy s
Nov 04 05:23:38 LAPTOP-53BBB875 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy s
swathi@LAPTOP-53BBB875:~$ sudo systemctl stop nginx
swathi@LAPTOP-53BBB875:~$ sudo systemctl start nginx
swathi@LAPTOP-53BBB875:~$ ps aux | grep nginx
root      849  0.0  0.0 11156  968 ?        Ss   05:35   0:00 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;
www-data  850  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process
www-data  851  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process
www-data  852  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process
www-data  853  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process
www-data  854  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process
www-data  855  0.0  0.1 12880  4240 ?        S    05:35   0:00 nginx: worker process
www-data  856  0.0  0.1 12880  4208 ?        S    05:35   0:00 nginx: worker process
www-data  857  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process
swathi    892  0.0  0.0  4088  2032 pts/0    S+   05:37   0:00 grep --color=auto nginx
swathi@LAPTOP-53BBB875:~$ pidof nginx
```



```
swathi@LAPTOP-53BBB87S: ~  
-188 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"  
-190 "nginx: worker process"  
-191 "nginx: worker process"  
-192 "nginx: worker process"  
-193 "nginx: worker process"  
-194 "nginx: worker process"  
-195 "nginx: worker process"  
-196 "nginx: worker process"  
-197 "nginx: worker process"  
  
Nov 04 05:23:38 LAPTOP-53BBB87S systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy >  
Nov 04 05:23:38 LAPTOP-53BBB87S systemd[1]: Started nginx.service - A high performance web server and a reverse proxy s>  
swathi@LAPTOP-53BBB87S:~$ sudo systemctl stop nginx  
swathi@LAPTOP-53BBB87S:~$ sudo systemctl start nginx  
swathi@LAPTOP-53BBB87S:~$ ps aux | grep nginx  
root      849  0.0  0.0 11156  968 ?        Ss   05:35   0:00 nginx: master process /usr/sbin/nginx -g daemon on; master_process on;  
www-data  850  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process  
www-data  851  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process  
www-data  852  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process  
www-data  853  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process  
www-data  854  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process  
www-data  855  0.0  0.1 12880  4240 ?        S    05:35   0:00 nginx: worker process  
www-data  856  0.0  0.1 12880  4208 ?        S    05:35   0:00 nginx: worker process  
www-data  857  0.0  0.1 12880  4264 ?        S    05:35   0:00 nginx: worker process  
swathi    892  0.0  0.0   4088  2032 pts/0    S+   05:37   0:00 grep --color=auto nginx  
swathi@LAPTOP-53BBB87S:~$ pidof nginx  
857 856 855 854 853 852 851 850 849  
swathi@LAPTOP-53BBB87S:~$ sudo kill -TERM 849  
swathi@LAPTOP-53BBB87S:~$ sudo systemctl start nginx  
swathi@LAPTOP-53BBB87S:~$ |
```

61°F Mostly sunny 11:16 04-11-2024