NGINX LOAD-BALANCER – LINUX

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NGINX is a popular load balancer with many benefits, including:

Improved performance

NGINX distributes traffic across multiple servers, which improves performance and response times for users.

Enhanced reliability

NGINX eliminates single points of failure, so if one server goes down, the others can continue to operate.

Scalability

NGINX can be easily scaled by adding or removing backend servers as needed.

Improved security

NGINX offers security features like rate limiting and request filtering to protect servers from cyber threats.

Ease of configuration

NGINX configuration files are simple and human-readable.

Rich feature set

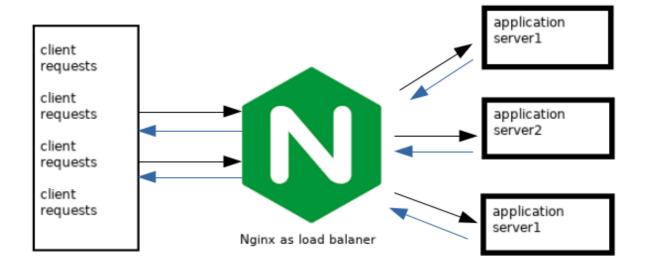
NGINX supports a variety of load balancing algorithms and advanced features.

Low memory footprint

NGINX can handle thousands of connections with minimal resource consumption.

Extensibility

NGINX modules allow for extensive customization and integration with other tools and services.



LoadBalancer (13.127.190.132) NginxServer1 (3.110.121.49) NginxServer2 (3.111.38.157)

STEP 1:

First we have to create 3 instances for load balancer, Nginx server1, nginx server2.

IN Load balancer

[root@www ~]# hostnamectl set-hostname www.srghimire.com [root@www ~]# exec bash

[root@www~]# vi /etc/hosts

13.127.190.132 www.srghimire.com

13.127.190.132 www.sigiiiiiiie.co

[root@www~]# vi /etc/sysconfig/network-scripts/ifcfg-ens33

BOOTPROTO=static

DEVICE=ens33

ONBOOT=yes

IPADDR=13.127.190.132

NETMASK=255.255.255.0

GATEWAY=13.127.190.100

DNS1=13.127.190.100

```
[root@www ~]# systemctl restart network
[root@www ~]# systemctl restart network
[root@www ~]# hostname
www.srghimire.com
[root@www ~]# hostname -I
13.127.190.132
```

```
-i "nginix.pem" ec2-user@13.127.190.132
        ####_
                       Amazon Linux 2023
        #####
          \###
                       https://aws.amazon.com/linux/amazon-linux-2023
 ast login: Tue Nov 26 06:35:39 2024 from 1.38.96.40
[ec2-user@ip-10-0-1-188 ~]$ sudo su
root@ip-10-0-1-188 ec2-user]# hostnamectl set-hostname www.shakthigroups.com
root@ip-10-0-1-188 ec2-user]# exec bash
[root@www ec2-user]# vi /etc/hosts
[root@www ec2-user]# vi /etc/sysconfig/network-scripts/ifcfg-ens33
[root@www ec2-user]# systemctl restart network
ailed to restart network.service: Unit network.service not found.
root@www ec2-user]# systemctl restart network
ailed to restart network.service: Unit network.service not found.
[root@www ec2-user]# hostname
 ww.shakthigroups.com
[root@www_ec2-user]# hostname -I
10.0.1.188
root@www ec2-user]# ^C
root@www ec2-user]# yum install nginx
ast metadata expiration check: 0:22:55 ago on Tue Nov 26 06:28:57 2024.
 ependencies resolved.
 Package
                          Arch
                                    Version
                                                                                     Size
                                                                    Repository
Installing:
                          x86_64
                                    1:1.26.2-1.amzn2023.0.1
                                                                    amazonlinux
                                                                                     33 k
Installing dependencies:
generic-logos-httpd
gperftools-libs
                         noarch
                                    18.0.0-12.amzn2023.0.3
                                                                    amazonlinux
                                                                                     19 k
                          x86_64
                                    2.9.1-1.amzn2023.0.3
                                                                    amazonlinux
                                                                                    308 k
 libunwind
                                    1.4.0-5.amzn2023.0.2
                                                                    amazonlinux
                                                                                     66 k
                          x86_64
 nginx-core
                          x86_64
                                    1:1.26.2-1.amzn2023.0.1
                                                                    amazonlinux
                                                                                    670 k
 nginx-filesystem
                         noarch
                                    1:1.26.2-1.amzn2023.0.1
                                                                    amazonlinux
                                                                                    9.9 k
 nginx-mimetypes
                                    2.1.49-3.amzn2023.0.3
                                                                                     21 k
                         noarch
                                                                    amazonlinux
Transaction Summary
Install 7 Packages
Total download size: 1.1 M
```

```
gperftools-libs
libunwind
                         x86 64
                                  2.9.1-1.amzn2023.0.3
                                                                                308 k
                                                                 amazonlinux
                        x86_64
                                  1.4.0-5.amzn2023.0.2
                                                                 amazonlinux
                                                                                 66 k
 nginx-core
                         x86_64
                                  1:1.26.2-1.amzn2023.0.1
                                                                 amazonlinux
                                                                                670 k
                                  1:1.26.2-1.amzn2023.0.1
                                                                 amazonlinux
 nginx-filesystem
                        noarch
                                                                                9.9 k
 nginx-mimetypes
                        noarch
                                  2.1.49-3.amzn2023.0.3
                                                                 amazonlinux
                                                                                 21 k
Transaction Summary
Install 7 Packages
Total download size: 1.1 M
Installed size: 3.6 M
Is this ok [y/N]: y
Downloading Packages:
(1/7): libunwind-1.4.0-5.amzn2023.0.2.x86_64.rp 1.1 MB/s
                                                                 66 kB
                                                                            00:00
(2/7): generic-logos-httpd-18.0.0-12.amzn2023.0 295 kB/s
                                                                19 kB
                                                                            00:00
(3/7): gperftools-libs-2.9.1-1.amzn2023.0.3.x86 4.3 MB/s
                                                                308 kB
                                                                            00:00
(4/7): nginx-core-1.26.2-1.amzn2023.0.1.x86_64. 31 MB/s
                                                               670 kB
                                                                            00:00
(5/7): nginx-1.26.2-1.amzn2023.0.1.x86_64.rpm 1.1 MB/s
                                                                33 kB
                                                                            00:00
(6/7): nginx-filesystem-1.26.2-1.amzn2023.0.1.n 460 kB/s
                                                                9.9 kB
                                                                            00:00
(7/7): nginx-mimetypes-2.1.49-3.amzn2023.0.3.no 1.4 MB/s
                                                                21 kB
                                                                            00:00
                                                    6.9 MB/s | 1.1 MB
                                                                           00:00
Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing
 Running scriptlet: nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch Installing : nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
                                                                                  1/7
1/7
  Installing
                      nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
  Installing
                      libunwind-1.4.0-5.amzn2023.0.2.x86_64
  Installing
                      gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
                                                                                  4/7
                                                                                  5/7
6/7
  Installing
                      nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
  Installing
                      generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  Installing
                      nginx-1:1.26.2-1.amzn2023.0.1.x86_64
                                                                                  7/7
1/7
  Running scriptlet: nginx-1:1.26.2-1.amzn2023.0.1.x86_64
  Verifying
                     : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  Verifying
                      gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
  Verifying
                      libunwind-1.4.0-5.amzn2023.0.2.x86_64
  Verifying
                    : nginx-1:1.26.2-1.amzn2023.0.1.x86_64
                                                                                  4/7
  Verifying
                    : nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
: nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
  Verifying
                                                                                  6/7
  Verifying
                    : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
Installed:
  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
```

```
generic-logos-nttpa-18.0.0-12.amzn2023.0.3.noarcn
  gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
  libunwind-1.4.0-5.amzn2023.0.2.x86_64
  nginx-1:1.26.2-1.amzn2023.0.1.x86_64
  nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
  nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
 nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
Complete!
[root@www ec2-user]# cd /etc/nginx/conf.d/
root@www conf.d]# vim lb.conf
[root@www conf.d]# nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
[root@www conf.d]# systemctl status nginx
o nginx.service - The nginx HTTP and reverse proxy server
     Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; preset: ds
    Active: inactive (dead)
lines 1-3/3 (END)
[root@www conf.d]# systemctl restart nginx
[root@www conf.d]# systemctl enable nginx
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service - /usr
/lib/systemd/system/nginx.service.
[root@www conf.d]# netstat -tnl | grep 80
           0
                 0 0.0.0.0:80
                                            0.0.0.0:*
                                                                    LISTEN
tcp
tcp6
           0
                  0 ::: 80
                                            ...*
                                                                    LISTEN
[root@www conf.d]# firewall-cmd --permanent --add-service=http
bash: firewall-cmd: command not found
[root@www conf.d]# gettenforce
bash: gettenforce: command not found
[root@www conf.d]# cd /
[root@www /]# gettenforce
bash: gettenforce: command not found
[root@www /]# getenforce
Permissive
[root@www /]# getsebool -a
abrt_anon_write --> off
abrt_handle_event --> off
abrt_upload_watch_anon_write --> on
antivirus_can_scan_system --> off
antivirus_use_jit --> off
auditadm_exec_content --> on
authlogin_nsswitch_use_ldap --> off
authlogin_radius --> off
authlogin_yubikey --> off
awstats_purge_apache_log_files --> off
boinc_execmem --> on
cdrecord_read_content --> off
cluster_can_network_connect --> off
```

```
/irt_use_execmem --> off
 virt_use_fusefs --> off
virt_use_glusterd --> off
virt_use_nfs --> off
virt_use_pcscd --> off
virt_use_rawip --> off
virt_use_samba --> off
virt_use_sanlock --> off
virt_use_usb --> on
virt_use_xserver --> off
webadm_manage_user_files --> off
webadm_read_user_files --> off
wine_mmap_zero_ignore --> off
 xdm_bind_vnc_tcp_port --> off
 xdm_exec_bootloader --> off
 xdm_manage_bootloader --> on
 xdm_sysadm_login --> off
 xdm_write_home --> off
 xen_use_nfs --> off
 xend_run_blktap --> on
 xend_run_qemu --> on
 xguest_connect_network --> on
 kguest_exec_content --> on
 xguest_mount_media --> on
 xguest_use_bluetooth --> on
 xserver_clients_write_xshm --> off
 xserver_execmem --> off
 xserver_object_manager --> off
zabbix_can_network --> off
zabbix_run_sudo --> off
zarafa_setrlimit --> off
zebra_write_config --> off
zoneminder_anon_write --> off
zoneminder_run_sudo --> off
 [root@www /]# getsebool -a | grep network_connect
cluster_can_network_connect --> off
cobbler_can_network_connect --> off
collectd_tcp_network_connect --> off
collectd_tcp_network_connect --> off
condor_tcp_network_connect --> off
fenced_can_network_connect --> off
httpd_can_network_connect --> off
httpd_can_network_connect_cobbler --> off
httpd_can_network_connect_db --> off
logwatch_can_network_connect_mail --> off
mozilla_plugin_can_network_connect --> on
openfortivpn_can_network_connect --> on openvpn_can_network_connect --> on
pdns_can_network_connect_db --> off
piranha_lvs_can_network_connect --> off
sge_domain_can_network_connect --> off
```

[root@www~]# yum -y install nginx

[root@www ~]# cd /etc/nginx/conf.d/ [root@www conf.d]# vim lb.conf

Start nginx server

```
[root@www ~]# nginx -t
[root@www ~]# systemctl status nginx
[root@www ~]# systemctl restart nginx
[root@www ~]# systemctl enable nginx
```

To check default port 80

```
[root@www ~]# netstat -tnl | grep 80
```

Configure on firewall

```
[root@www ~]# firewall-cmd --permanent --add-service=http
[root@www ~]# firewall-cmd --reload
[root@www ~]# firewall-cmd --list-all

Configure SELinux
[root@www ~]# getenforce
Enforcing
[root@www ~]# getsebool -a
[root@www ~]# getsebool -a | grep network_connect
...
httpd_can_network_connect --> off
```

```
...
[root@www ~]# setsebool -P httpd_can_network_connect=1
[root@www ~]# getsebool -a | grep network_connect
```

STEP 2:

Next, we have to configure the nginx server 1,

```
[root@www~]# hostnamectl set-hostname www1.srghimire.com
[root@www~]# exec bash
[root@www1 ~]# vi /etc/hosts
3.110.121.49 www.shakthigroups.com
[root@www1 \sim] \#\ vi\ /etc/sysconfig/network-scripts/ifcfg-ens33
BOOTPROTO=static
DEVICE=ens33
ONBOOT=yes
IPADDR=3.110.121.49
NETMASK=255.255.255.0
GATEWAY=13.127.190.100
DNS1=13.127.190.100
[root@www1 ~]# systemctl restart network
[root@www1 ~]# systemctl restart network
[root@www1 ~]# hostname
www.shakthigroups.com
[root@www1 \sim] # hostname -I
13.127.190.132
```

1. Install nginx package

[root@www1~]# yum -y install nginx

2. Add configuration file inside /etc/nginx/conf.d/

3. Add index page

```
[root@www1 conf.d]# cd /usr/share/nginx/html/
[root@www1 html]# mv index.html index.html.orig
[root@www1 html]# vim index.html
[root@www1 html]# cat index.html
<h1>Welcome to Mahesh Portfolio Site -Web1</h1>
```

4. Start nginx service

```
[root@www1 html]# nginx -t
[root@www1 html]# systemctl restart nginx
[root@www1 html]# systemctl enable nginx
```

5. Configure on firewall

```
[root@www1 html]# firewall-cmd --permanent --add-service=http
[root@www1 html]# firewall-cmd --reload
[root@www1 html]# firewall-cmd --list-all
```

```
[ec2-user@ip-10-0-1-22 ~]$ sudo su
[root@ip-10-0-1-22 ec2-user]# hostnamectl set-hostname www.shakthigroups.com
[root@ip-10-0-1-22 ec2-user]# exec bash
[root@www ec2-user]# vi /etc/hosts
[root@www ec2-user]# vi /etc/sysconfig/network-scripts/ifcfg-ens33
[root@www ec2-user]# systemctl restart network
Failed to restart network.service: Unit network.service not found.
[root@www ec2-user]# systemctl restart network
Failed to restart network.service: Unit network.service not found.
[root@www ec2-user]# hostname
www.shakthigroups.com
[root@www ec2-user]# hostname -i
3.110.121.49
[root@www ec2-user]# yum install nginx
Last metadata expiration check: 0:36:16 ago on Tue Nov 26 06:30:10 2024.
Dependencies resolved.
 _____
Package
                    Arch
                             Version
                                                       Repository
Installing:
nginx
                    x86_64 1:1.26.2-1.amzn2023.0.1
                                                       amazonlinux
                                                                     33 k
Installing dependencies:
                                                      amazonlinux
 generic-logos-httpd noarch 18.0.0-12.amzn2023.0.3
                                                                    19 k
 gperftools-libs
                   x86_64 2.9.1-1.amzn2023.0.3
                                                       amazonlinux 308 k
 Tibunwind
                    x86_64 1.4.0-5.amzn2023.0.2
                                                       amazonlinux
                                                                    66 k
 nginx-core
                    x86_64 1:1.26.2-1.amzn2023.0.1
                                                       amazonlinux 670 k
 nginx-filesystem
                   noarch 1:1.26.2-1.amzn2023.0.1
                                                       amazonlinux
                                                                    9.9 k
 nginx-mimetypes
                    noarch 2.1.49-3.amzn2023.0.3
                                                       amazonlinux
                                                                     21 k
Transaction Summary
Install 7 Packages
Total download size: 1.1 M
Installed size: 3.6 M
Is this ok [y/N]: y
Downloading Packages:
(1/7): generic-logos-httpd-18.0.0-12.amzn2023.0 390 kB/s | 19 kB
                                                                00:00
```

```
Downloading Packages:
(1/7): generic-logos-httpd-18.0.0-12.amzn2023.0 390 kB/s |
                                                              19 kB
                                                                        00:00
(2/7): libunwind-1.4.0-5.amzn2023.0.2.x86_64.rp 1.0 MB/s
                                                              66 kB
                                                                        00:00
(3/7): gperftools-libs-2.9.1-1.amzn2023.0.3.x86 4.3 MB/s
                                                             308 kB
                                                                        00:00
(4/7): nginx-1.26.2-1.amzn2023.0.1.x86_64.rpm 1.3 MB/s (5/7): nginx-core-1.26.2-1.amzn2023.0.1.x86_64. 14 MB/s
                                                              33 kB
                                                                        00:00
                                                             670 kB
                                                                        00:00
(6/7): nginx-filesystem-1.26.2-1.amzn2023.0.1.n 233 kB/s
                                                                        00:00
                                                             9.9 kB
(7/7): nginx-mimetypes-2.1.49-3.amzn2023.0.3.no 497 kB/s |
                                                             21 kB
                                                                        00:00
                                                 6.8 MB/s | 1.1 MB
                                                                        00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing
  Running scriptlet: nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
                                                                               1/7
                   : nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
                                                                               1/7
  Installing
                   : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
                                                                               2/7
  Installing
  Installing
                   : libunwind-1.4.0-5.amzn2023.0.2.x86_64
  Installing
                    : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
                                                                               4/7
  Installing
                   : nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
                                                                               5/7
                   : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
                                                                               6/7
  Installing
  Installing
                   : nginx-1:1.26.2-1.amzn2023.0.1.x86_64
  Running scriptlet: nginx-1:1.26.2-1.amzn2023.0.1.x86_64
                   : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
 Verifying
                                                                               1/7
 Verifying
                   : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
                                                                               2/7
 Verifying
                   : libunwind-1.4.0-5.amzn2023.0.2.x86_64
                                                                               3/7
 Verifying
                   : nginx-1:1.26.2-1.amzn2023.0.1.x86_64
                                                                               4/7
  Verifying
                   : nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
                                                                               5/7
                   : nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
 Verifying
                                                                               6/7
  Verifying
                   : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
Installed:
 generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
  libunwind-1.4.0-5.amzn2023.0.2.x86_64
 nginx-1:1.26.2-1.amzn2023.0.1.x86_64
 nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
 nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
 nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
[root@www ec2-user]# cd /etc/nginx/conf.d/~
bash: cd: /etc/nginx/conf.d/~: No such file or directory
[root@www_ec2-user]# cd /etc/nginx/conf.d/
[root@www conf.d]# vim www1.conf
[root@www_conf.d]# cd /usr/share/nginx/html/
[root@www html]# mv index.html index.html.orig
```

```
Installed:
 generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
 gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
  libunwind-1.4.0-5.amzn2023.0.2.x86_64
 nginx-1:1.26.2-1.amzn2023.0.1.x86_64
 nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
 nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
 nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
Complete!
[root@www ec2-user]# cd /etc/nginx/conf.d/~
bash: cd: /etc/nginx/conf.d/~: No such file or directory
[root@www ec2-user]# cd /etc/nginx/conf.d/
[root@www conf.d]# vim www1.conf
[root@www conf.d]# cd /usr/share/nginx/html/
[root@www html]# mv index.html index.html.orig
[root@www html]# vim index.html
[root@www html]# nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
[root@www html]# systemctl restart nginx
[root@www html]# systemctl enable nginx
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr
/lib/systemd/system/nginx.service.
```

```
STEP 3
```

Next we have to configure Nginx Webserver 02

Configuring Webserver2 (Backend Webserver)

2. Add configuration file inside /etc/nginx/conf.d/

3. Add index page

```
[root@www2 conf.d]# cd /usr/share/nginx/html/
[root@www2 html]# mv index.html index.html.orig
[root@www2 html]# vim index.html
[root@www2 html]# cat index.html
<h1>Welcome to Mahesh Webpage 02</h1>
```

4. Start nginx service

[root@www2 html]# nginx -t [root@www2 html]# systemctl restart nginx [root@www2 html]# systemctl enable nginx

5. Configure on firewall

[root@www2 html]# firewall-cmd --permanent --add-service=http [root@www2 html]# firewall-cmd --reload [root@www2 html]# firewall-cmd --list-all

```
ec2-user@ip-10-0-1-24 ~]$ sudo su
root@ip-10-0-1-24 ec2-user]# hostnamect] set-hostname www.shakthigroups.com
root@ip-10-0-1-24 ec2-user]# exec bash
[root@www ec2-user]# vi /etc/hosts
[root@www ec2-user]# vi /etc/sysconfig/network-scripts/ifcfg-ens33
root@www ec2-user]# systemctl restart network
Failed to restart network.service: Unit network.service not found.
[root@www ec2-user]# systemctl restart network
Failed to restart network.service: Unit network.service not found.
[root@www ec2-user]# hostname
ww.shakthigroups.com
[root@www ec2-user]# hostname -i
3.111.38.157
[root@www ec2-user]# yum install nginx
Last metadata expiration check: 0:46:27 ago on Tue Nov 26 06:31:20 2024.
Dependencies resolved.
 Package
                        Arch
                                 Version
                                                                Repository
                                                                                Size
Installing:
                                                                amazonlinux
nainx
                        x86_64 1:1.26.2-1.amzn2023.0.1
                                                                                 33 k
Installing dependencies:
 generic-logos-httpd noarch 18.0.0-12.amzn2023.0.3
                                                                amazonlinux
                                                                                19 k
   erftools-libs
                                                                amazonlinux
                        x86_64
                                 2.9.1-1.amzn2023.0.3
                                                                               308 k
                        x86_64
 libunwind
                                 1.4.0-5.amzn2023.0.2
                                                                amazonlinux
                                                                                66 k
 nginx-core
                        x86_64
                                  1:1.26.2-1.amzn2023.0.1
                                                                amazonlinux
                                                                               670 k
                                  1:1.26.2-1.amzn2023.0.1
                                                                amazonlinux
 nginx-filesystem
                        noarch
                                                                               9.9 k
                        noarch
                                 2.1.49-3.amzn2023.0.3
                                                                amazonlinux
                                                                                 21 k
 nginx-mimetypes
Transaction Summary
Install 7 Packages
Total download size: 1.1 M
Installed size: 3.6 M
Is this ok [y/N]: y
Downloading Packages:
(1/7): generic-logos-httpd-18.0.0-12.amzn2023.0 396 kB/s |
(2/7): libunwind-1.4.0-5.amzn2023.0.2.x86_64.rp 1.2 MB/s |
                                                                19 kB
                                                                           00:00
                                                                           00:00
                                                                66 kB
(3/7): nginx-1.26.2-1.amzn2023.0.1.x86_64.rpm 2.1 MB/s
                                                                33 kB
                                                                           00:00
(4/7): gperftools-libs-2.9.1-1.amzn2023.0.3.x86 4.3 MB/s
                                                               308 kB
                                                                           00:00
(5/7): nginx-core-1.26.2-1.amzn2023.0.1.x86_64. 20 MB/s
                                                               670 kB
                                                                           00:00
(6/7): nginx-mimetypes-2.1.49-3.amzn2023.0.3.no 1.1 MB/s
                                                                21 kB
                                                                           00:00
(7/7): nginx-filesystem-1.26.2-1.amzn2023.0.1.n 327 kB/s
                                                               9.9 kB
                                                                           00:00
                                                   7.7 MB/s | 1.1 MB
                                                                           00:00
Running transaction check
```

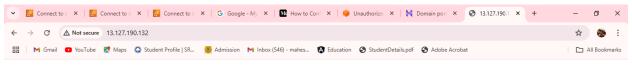
```
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing
                                                                                  1/7
1/7
2/7
  Running scriptlet: nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
                    : nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
  Installing
  Installing
                    : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
  Installing
                    : libunwind-1.4.0-5.amzn2023.0.2.x86_64
                                                                                  4/7
5/7
                      gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
  Installing
  Installing
                      nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
                    : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
                                                                                  6/7
7/7
7/7
1/7
2/7
3/7
  Installing
  Installing
                    : nginx-1:1.26.2-1.amzn2023.0.1.x86_64
  Running scriptlet: nginx-1:1.26.2-1.amzn2023.0.1.x86_64
  Verifying
                   : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  Verifying
                    : gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
  Verifying
                    : libunwind-1.4.0-5.amzn2023.0.2.x86_64
  Verifying
                    : nginx-1:1.26.2-1.amzn2023.0.1.x86_64
                                                                                  4/7
  Verifying
                    : nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
                    : nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
  Verifying
 Verifying
                    : nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
Installed:
  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
  gperftools-libs-2.9.1-1.amzn2023.0.3.x86_64
  libunwind-1.4.0-5.amzn2023.0.2.x86_64
  nginx-1:1.26.2-1.amzn2023.0.1.x86_64
  nginx-core-1:1.26.2-1.amzn2023.0.1.x86_64
nginx-filesystem-1:1.26.2-1.amzn2023.0.1.noarch
  nginx-mimetypes-2.1.49-3.amzn2023.0.3.noarch
Complete!
 root@www ec2-user]# cd /etc/nginx/conf.d/
 root@www conf.d]# vim www2.conf
[root@www_conf.d]# cd /usr/share/nginx/html/
 root@www html]# mv index.html index.html.orig
[root@www html]# vim index.html
[root@www html]# nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
[root@www html]# systemctl restart nginx
[root@www html]# systemctl enable nginx
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service - /usr
/lib/systemd/system/nginx.service.
[root@www html]# cd /
[root@www /]# cd /
[root@www /]# sudo su
[root@www /]# ping 3.111.38.157
PING 3.111.38.157 (3.111.38.157) 56(84) bytes of data.
```

RESULT

Now when we enter the LB machine IP (13.127.190.132) it will balance the traffic and spin out to the two nginx servers such as NGINX Server 01 (3.110.121.49),NGINX Server 02(3.111.38.157)



Welcome to Mahesh Portfolio Site -Web1



welcome to mahesh webpage 02