Placement Empowerment Program

Cloud Computing and DevOps Centre

100 Days of DevOps Challenge

Day 16 *: Install and Configure Nginx as an LBR*

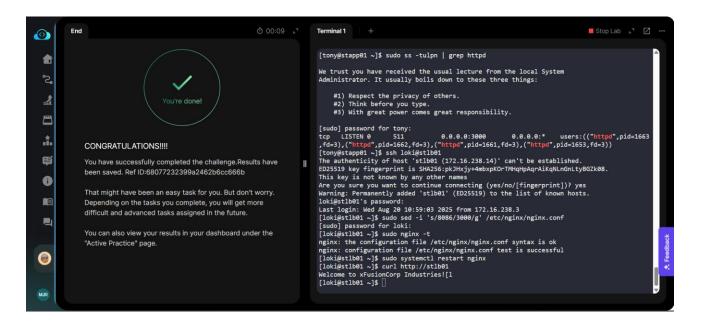*Name: Monisha J R*   *Department: CSE*

Install and Configure Nginx as an LBR

Objective :

Configure the Nginx load balancer on **stlb01** to forward requests correctly to Apache servers. The issue was that Apache was running on port **3000** instead of **8086**, which caused a 502 Bad Gateway.

Steps Performed :

☐ **Log in to the load balancer server**
  - ssh loki@stlb01

☐ **Update Nginx upstream ports from 8086 to 3000**
  - sudo sed -i 's/8086/3000/g' /etc/nginx/nginx.conf

☐ **Validate Nginx configuration**
  - sudo nginx -t

☐ **Restart Nginx service**
  - sudo systemctl restart nginx

☐ **Test load balancer access**
  - curl http://stlb01

✅ You should now see the application response instead of 502 Bad Gateway.

End
⏱ 00:09

✓
You're done!

CONGRATULATIONS!!!!

You have successfully completed the challenge. Results have been saved. Ref ID:68077232399a2462b6cc666b

That might have been an easy task for you. But don't worry. Depending on the tasks you complete, you will get more difficult and advanced tasks assigned in the future.

You can also view your results in your dashboard under the "Active Practice" page.

Terminal 1 +
■ Stop Lab

```
[tony@stapp01 ~]$ sudo ss -tulpn | grep httpd

We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

    #1) Respect the privacy of others.
    #2) Think before you type.
    #3) With great power comes great responsibility.

[sudo] password for tony:
tcp   LISTEN 0     511         0.0.0.0:3000        0.0.0.0:*    users:(("httpd",pid=1663
,fd=3),("httpd",pid=1662,fd=3),("httpd",pid=1661,fd=3),("httpd",pid=1653,fd=3))
[tony@stapp01 ~]$ ssh loki@stlb01
The authenticity of host 'stlb01 (172.16.238.14)' can't be established.
ED25519 key fingerprint is SHA256:pkJHxjy+4mbxpKOrTMHqHpAqrAiKqNLnGnLtyBGZk08.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'stlb01' (ED25519) to the list of known hosts.
loki@stlb01's password:
Last login: Wed Aug 20 10:59:03 2025 from 172.16.238.3
[loki@stlb01 ~]$ sudo sed -i 's/8086/3000/g' /etc/nginx/nginx.conf
[sudo] password for loki:
[loki@stlb01 ~]$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
[loki@stlb01 ~]$ sudo systemctl restart nginx
[loki@stlb01 ~]$ curl http://stlb01
Welcome to xFusionCorp Industries![1
[loki@stlb01 ~]$ 
```

♣ Feedback

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⊞ ☐ All Bookmarks

Welcome to xFusionCorp Industries!

✕

✓
Congrats!
You have completed the task successfully.

100 Days of DevOps
Day 16: Install and Configure Ngin... ✓

80 🪙 800 💎 ◄ Share your success card