



Placement Empowerment Program
Cloud Computing and DevOps Centre

100 Days of DevOps Challenge

Day 20 : Configure Nginx + PHP-FPM Using Unix Sock

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Configure Nginx + PHP-FPM Using Unix Sock

Objective :

The objective is to configure a web server on stapp03 to serve a PHP-based application. This involves installing Nginx and PHP-FPM, configuring Nginx to listen on port 8096 and use the document root /var/www/html, and integrating it with PHP-FPM to process PHP files.

Steps Performed :

□ Connect to the Server:

- SSH into the jump host: `ssh thor@jump_host`
- From the jump host, SSH into stapp01: `ssh tony@stapp01`

□ Install Required Software:

- Gain root access: `sudo -i`
- Install Nginx and PHP-FPM: `yum install nginx php-fpm -y`

□ Configure Nginx:

- Open the Nginx configuration file: `vim /etc/nginx/nginx.conf`
- In the server block, change `listen 80;` to `listen 8096;`
- Change `root /usr/share/nginx/html;` to `root /var/www/html;`
- Uncomment and modify the PHP block to use the correct socket:

Nginx

```
location ~ \.php$ {  
    fastcgi_pass unix:/run/php-fpm/www.sock;  
    fastcgi_index index.php;  
    fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;  
    include fastcgi_params;  
}
```

- Save and exit the editor.

□ Configure PHP-FPM:

- Open the PHP-FPM configuration file: `vim /etc/php-fpm.d/www.conf`
- Ensure the `listen` directive is set to the Unix socket: `listen = /run/php-fpm/www.sock`
- Save and exit.

□ Start and Enable Services:

Start the services:

- `systemctl start nginx`
- `systemctl start php-fpm`

Enable services to start on boot:

- `systemctl enable nginx`
- `systemctl enable php-fpm`

□ Verify and Test:

Test Nginx syntax: `nginx -t`

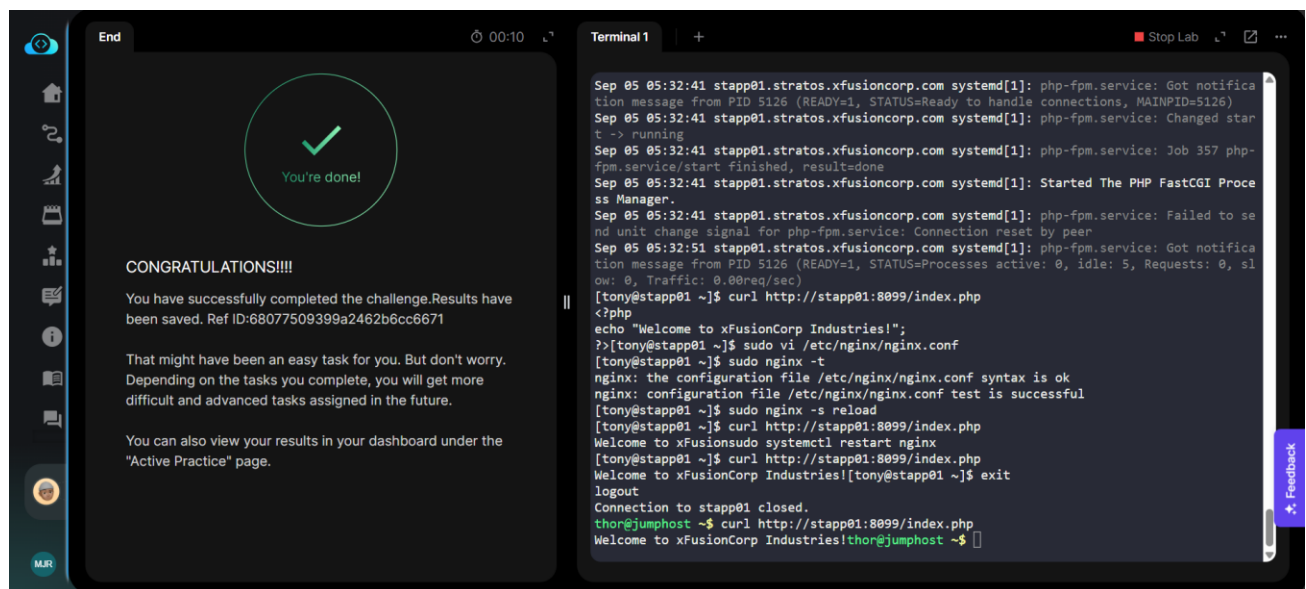
Restart services if the test is successful:

- `systemctl restart nginx`
- `systemctl restart php-fpm`

Return to the jump host.

Verify the website is working using curl:

- `curl http://stapp01:8096/index.php`





Congrats!

You have completed the task successfully.



**100 Days of
DevOps**

Day 20: Configure Nginx + PHP-FPM Usin...



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