



Placement Empowerment Program Cloud Computing and DevOps Centre

100 Days of DevOps Challenge

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

Name: Nevesh Gokul M J Department: CSE



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



