## **Installation of LEMP STACK (nginx)**

### **Check for update and upgrade**

**sudo apt update && sudo apt upgrade**

### **Install nginx server**

**sudo apt install nginx**

### **Allow ports in firewall**

**sudo ufw allow 80/tcp**

**sudo ufw allow 43/tcp**

### **Check status of nginx server**

**sudo systemctl status nginx**

### **Installing php**

**sudo add-apt-repository ppa:ondrej/nginx**

**sudo apt install php8.1**

**sudo apt install php8.1-fpm**

### **Check php8.1-fpm status**

**sudo systemctl status php8.1-fpm**

### **Installing MySQL**

**sudo apt install mysql-server**

### **Confirmation of MySql**

**sudo mysql**

**ALTER USER ‘root’@’localhost’ IDENTIFIED WITH mysql\_native\_password BY ‘password’;**

### **Installing additional packages**

**sudo apt search php8.1\***

### **Installation of Modules**

**sudo apt install php8.1-mysql php8.1-curl php8.1-xml**

### **Configure Nginx VirtualHost**

**sudo nano /etc/nginx/sites-enabled/default**

**Make Changes**

**Uncomment following lines**

**# location ~ \.php$ {**

**# include snippets/fastcgi-php.conf;**

**# fastcgi\_pass unix:/run/php/php8.1-fpm.sock;**

**# }**

**server {**

**listen 80;**

**root /var/www/example.com;**

**index index.php;**

**server\_name example.com www.example.com;**

**location / {**

**try\_files $uri $uri/ =404;**

**}**

**location ~ \.php$ {**

**include snippets/fastcgi-php.conf;**

**fastcgi\_pass unix:/run/php/php8.1-fpm.sock;**

**}**

**}**

**sudo nginx -t # This command will check the error.log file generated by nginx.conf, if any error is generated by nginx.conf file then it will not pass the nginx.conf file to execute.**

### **Verify Setup**

**create a PHP script (example: info.php) on the website document root and write the below content.**

**<?php**

**phpinfo();**

**?>**

**{on web browser} http://server-ip-or-domain-name/info.php**

### **Installing phpmyadmin in nginx**

**sudo mysql or sudo mysql -u root -p “{password}”**

**sudo apt install phpmyadmin**

**sudo mysql -u root -p “{password}”**

### **create a symbolic link from the installation files to Nginx’s document root directory**

**sudo ln -s /usr/share/phpmyadmin /var/www/html**

### **Check for phpmyadmin**

**http://localhost/phpmyadmin**