

# **Install and Configure Nginx**

## **Step 1: Install Nginx**

```
rpm -qa | grep nginx
```

```
dnf install nginx -y
```

## **Step 2: Start and Enable Nginx Services**

```
systemctl start nginx
```

```
systemctl enable nginx
```

```
systemctl status nginx
```

## **Step 3: Disable Firewall**

```
systemctl stop firewalld
```

```
systemctl disable firewalld
```

## **Step 4: Configuring Nginx**

```
vi /etc/nginx/nginx.conf
```

```
vi /etc/nginx/conf.d/myfirstlinuxos.conf
```

```
server {
```

```
    listen 80;
```

```
    server_name 192.168.100.161;
```

```
    root /var/www/myfirstlinuxos/html;
```

```
    index index.html;
```

```
    location / {
```

```
        try_files $uri $uri/ =404;
```

```
    }
```

```
}
```

### **Step 5: Creating the Directory and Content**

```
mkdir -p /var/www/myfirstlinuxos/html/  
cd /var/www/myfirstlinuxvm/html/  
vi index.html  
<h1> Hello from MyFirstLinuxOS </h1>
```

### **Step 6: Testing Configuration & Accessing the Website**

```
nginx -t  
systemctl restart nginx  
http://192.168.100.161
```

### **Step 7: Repeat the process of installation and configuration on the new machine**

```
dnf install nginx -y  
systemctl start nginx  
systemctl enable nginx  
systemctl stop firewalld  
systemctl disable firewalld  
vi /etc/nginx/nginx.conf  
vi /etc/nginx/conf.d/centosserver.conf  
server {  
    listen 80;  
    server_name 192.168.100.162;  
  
    root /var/www/centosserver/html;  
    index index.html;  
  
    location / {  
        try_files $uri $uri/ =404;  
    }  
}
```

```
mkdir -p /var/www/centosserver/html
cd /var/www/centosserver/html/
vi index.html
<h1> Hello from CentOS Server </h1>
nginx -t
systemctl restart nginx
http://192.168.100.162
```

### **Step 8: Setting Up a Reverse Proxy**

```
server {
    listen 80;
    server_name 192.168.100.161;

    location / {
        proxy_pass http://192.168.100.162;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
}
```

### **Step 9: Final Testing & Accessing Website Through Reverse Proxy**

```
nginx -t
systemctl restart nginx
http://192.168.100.162
```