

# nginx

Web???nginx???

- [?????](#)
  - [Ubuntu 24.04?nginx?????](#)
  - [Ubuntu24.04????nginx?????????](#)

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# Ubuntu 24.04?nginx??????

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???apache?????????????????Ubuntu?????????nginx?????????

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- 1. ???????????????????
- 2. nginx???????????????
- 3. ????????????
- 4. ????????????

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- ??????????

```
sudo aptitude install curl gnupg2 ca-certificates lsb-release
```

- ???????

```
echo "deb http://nginx.org/packages/ubuntu/ $(lsb_release -cs) nginx" | sudo tee /etc/apt/sources.list.d/nginx.list
```

```
curl -fsSL https://nginx.org/keys/nginx_signing.key | sudo apt-key add -
```

nginx??????

- ????????????

```
sudo aptitude update
```

- nginx??????

```
sudo aptitude install nginx
```

- ?????????

```
nginx -v
```

nginx version: nginx/1.26.2 ???????(2024/10/25??)

- ??????

```
sudo systemctl start nginx.service
```

- ???????

```
systemctl status nginx.service
```

```
active(running) ??????
```

????(????)

????????????

?????:nginx????www-data????

- ???????

```
sudo cp -pi /etc/nginx/nginx.conf /path/to/backup/directory/nginx.conf.$(date +%Y%m%d)
```

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- ???????

```
diff -u /path/to/backup/directory/nginx.conf.$(date +%Y%m%d) /etc/nginx/nginx.conf
```

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- ???????

```
sudo sed -i 's/user nginx;/user www-data;/g' /etc/nginx/nginx.conf
```

- ???????

```
diff -u /path/to/backup/directory/nginx.conf.$(date +%Y%m%d) /etc/nginx/nginx.conf
```

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```
-user nginx;  
+user www-data;
```

- ???????

```
sudo systemctl restart nginx.service
```

- ???????

```
systemctl status nginx.service
```

active(running)`??????

?????:Web??????????????

- web???????????

```
sudo mkdir -p /home/www-data
```

```
sudo chown -R www-data:www-data /home/www-data
```

```
sudo chmod -R 755 /home/www-data
```

?????:passwd??????????

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- ????????

```
sudo cp -pi /etc/passwd /path/to/backup/directory/passwd.$(date +%Y%m%d)
```

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- ??????????

```
diff -u /path/to/backup/directory/passwd.$(date +%Y%m%d) /etc/passwd
```

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- ??????????

```
sudo sed -i 's|/var/www|/home/www-data|' /etc/passwd
```

- ??????

```
diff -u /path/to/backup/directory/passwd.$(date +%Y%m%d) /etc/passwd
```

??????????????

```
-www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
+www-data:x:33:33:www-data:/home/www-data:/usr/sbin/nologin
```

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?????nginx????????????????????



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# Ubuntu24.04?????nginx??????????????

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Ubuntu24.04????????????????nginx??apache????????????????????????????

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```
sudo mkdir -p /etc/nginx/sites-available
```

```
sudo mkdir -p /etc/nginx/sites-enabled
```

```
ls -ld /etc/nginx/sites*
```

`sites-available` ? `sites-enabled` ??????????????????

?????????????

- ??????????

```
sudo cp -pi /etc/nginx/nginx.conf /path/to/backup/directory/nginx.conf.$(date +%Y%m%d)
```

????????????????????

- ????????????

```
diff -u /path/to/backup/directory/nginx.conf.$(date +%Y%m%d) /etc/nginx/nginx.conf
```

????????????????????

- ????????

```
sudo sed -i 's/http {a \ include /etc/nginx/sites-enabled/*;' /etc/nginx/nginx.conf
```

- ????????????

```
diff -u /path/to/backup/directory/nginx.conf.$(date +%Y%m%d) /etc/nginx/nginx.conf
```

???????????????

```
+ include /etc/nginx/sites-enabled/*;
```

?????html???????

????????????????????

```
sudo -u www-data tee /home/www-data/index.html > /dev/null <<EOL
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Welcome to example.com</title>
</head>
<body>
<h1>Welcome to example.com!</h1>
<p>This is a sample page served by Nginx.</p>
</body>
</html>
EOL
```

????????????????????

?????server\_name????????????

- ???????

```
sudo tee /etc/nginx/sites-available/sample.conf > /dev/null <<EOL
server {
listen 80;
server_name example.com www.example.com;

root /home/www-data;
index index.html index.htm;

location / {
try_files $uri $uri/ =404;
}

# [] [] [] [] []
# [] [] [] [] []
server_tokens off;
```



```
# MIME配置
include /etc/nginx/mime.types;
default_type application/octet-stream;

# XSS配置
add_header X-Content-Type-Options nosniff;
add_header X-Frame-Options SAMEORIGIN;
add_header X-XSS-Protection "1; mode=block";

# 客户端请求限制
client_max_body_size 1M;

# 日志配置
access_log /var/log/nginx/example.com.access.log;
error_log /var/log/nginx/example.com.error.log;
}
EOL
```

## 配置验证

- 验证配置语法

```
sudo ln -s /etc/nginx/sites-available/sample.conf /etc/nginx/sites-enabled/
```

- 验证配置

```
sudo nginx -t
```

“ nginx: the configuration file /etc/nginx/nginx.conf syntax is ok  
nginx: configuration file /etc/nginx/nginx.conf test is successful

## 启动Nginx

- 启动Nginx

```
sudo systemctl restart nginx.service
```

## 访问测试

访问地址: <http://192.168.1.100:80>