NGINX

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Nginx ???1.20.1 ??

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- **Ubuntu 20.04**

```
echo "deb http://nginx.org/packages/mainline/ubuntu `lsb_release -cs` nginx" \
    | sudo tee /etc/apt/sources.list.d/nginx.list
curl -o /tmp/nginx_signing.key https://nginx.org/keys/nginx_signing.key
sudo mv /tmp/nginx_signing.key /etc/apt/trusted.gpg.d/nginx_signing.asc

sudo apt update
sudo apt install nginx -y
```

```
nginx -v
```

□ nginx 1.20 □□□□ /etc/nginx/site-enabled □□□□□□□□□□□□□□□□
□□ /etc/nginx/nginx.conf

```
http {
  #include /etc/nginx/conf.d/*.conf;
  include /etc/nginx/sites-enabled/*;
}
```

□□ nginx □□ nginx □□ user□□□□□□ www-data □□□□□□□□□□ nginx.conf □□□□□□□□

```
user  www-data;
#user  nginx;
```

```
/etc/init.d/nginx configtest

/etc/init.d/nginx restart
```

Nginx - ??Fail2ban????

????

- **Ubuntu 22.04**

??Fail2ban

```
# □□
apt install fail2ban -y

# □□□□□□□□□
systemctl enable --now fail2ban

# □□□□□
cp /etc/fail2ban/jail.conf /etc/fail2ban/jail.local
```

??Fail2ban

□□ **`/etc/fail2ban/jail.local`**

```
[nginx-4xx]
enabled = true
port = 80,443
logpath = %(nginx_access_log)s
maxretry = 10
findtime = 1m
bantime = 1d
[nginx-4xx-repeated]
enabled = true
port = 80,443
logpath = /var/log/fail2ban.log
maxretry = 3
findtime = 7d
bantime = 7d
```

```
□□nginx_access_log□□port 80 443 □□□□
1 □□□□□ IP □□ 10 □ 4xx □□□□□ 1 □
7 □□□□ IP □ 4xx □□□□□□□ 3 □□□□ 7□
```

??nginx-4xx

□□ `/etc/fail2ban/filter.d/nginx-4xx.conf`

```
[Definition]
failregex = ^<HOST>.*"(GET|POST).*" (400|403|404|444) .*$
ignoreregex =
```

> □□□□ 4XX□□□□

??nginx-4xx-repeated

□□ `/etc/fail2ban/filter.d/nginx-4xx-repeated.conf`

```
[Definition]
failregex = \[nginx-4xx]\s+[Bb]an\s+<HOST>
ignoreregex =
```

```
systemctl restart fail2ban
```

```
# □□ Fail2ban □□
fail2ban-client status
# □□ Filter □□
fail2ban-client status nginx-4xx
# □□□ ban □ IP
fail2ban-client get nginx-4xx banip
# □□□ ban □ IP
fail2ban-client set nginx-4xx unbanip <IP>
# □□□□□
fail2ban-client set nginx-4xx addignoreip <IP>
```

Nginx ????IP

Nginx??

□□ IP□□ Nginx□□□□□□ Nginx□ IP□□□ $remote_addr□□□□□ IP

```
location /{
            .....
            proxy_set_header X-Real-IP $remote_addr;
            proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}
```

PHP??IP??

```
if(!empty($_SERVER['HTTP_CLIENT_IP'])){
    $myip = $_SERVER['HTTP_CLIENT_IP'];
}else if(!empty($_SERVER['HTTP_X_FORWARDED_FOR'])){
    $myip = $_SERVER['HTTP_X_FORWARDED_FOR'];
}else{
    $myip= $_SERVER['REMOTE_ADDR'];
}
```

Nginx ??Let’s Encrypt Certbot ????SSL??

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- **Ubuntu 22.04**

??certbot

```
apt install certbot python3-certbot-nginx
```

```
certbot certonly --nginx -d your_frontend_fqdn
```

□□□□□□□□□

????SSL??

```
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Requesting a certificate for your_frontend_fqdn

Successfully received certificate.
Certificate is saved at: /etc/letsencrypt/live/your_frontend_fqdn/fullchain.pem
Key is saved at:         /etc/letsencrypt/live/your_frontend_fqdn/privkey.pem
```

??Nginx??

```
listen 443 ssl;
        ssl_certificate /etc/letsencrypt/live/your_frontend_fqdn/fullchain.pem;
        ssl_certificate_key /etc/letsencrypt/live/your_frontend_fqdn/privkey.pem;
```

```
nginx -t
systemctl restart nginx
```

□□□□□□□□ **https□□**

????

```
#□□□□□□
certbot renew
```

```
#□□□□□□□
certbot renew --dry-run
#□□□□□□□
certbot certificates
```

??CertBot ??????

□□ certbot.timer□□□□□

```
systemctl status certbot.timer
```

□□ `/lib/systemd/system/certbot.service`□□□ ExecStart

```
[Unit]
Description=Certbot
Documentation=file:///usr/share/doc/python-certbot-doc/html/index.html
Documentation=https://certbot.eff.org/docs
[Service]
Type=oneshot
ExecStart=/usr/bin/certbot -q renew --post-hook "systemctl reload nginx"
PrivateTmp=true
```

```
systemctl start certbot.service
```

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```
user@nginx-proxy:~#  service certbot status
* certbot.service - Certbot
     Loaded: loaded (/lib/systemd/system/certbot.service; static)
     Active: inactive (dead) since Thu 2025-07-17 15:30:48 CST; 11min ago
TriggeredBy: * certbot.timer
       Docs: file:///usr/share/doc/python-certbot-doc/html/index.html
             https://certbot.eff.org/docs
    Process: 3737646 ExecStart=/usr/bin/certbot -q renew --post-hook systemctl reload nginx
(code=exited, status=0/SUCCESS)
   Main PID: 3737646 (code=exited, status=0/SUCCESS)
        CPU: 8.533s

Jul 17 15:28:06 nginx-proxy systemd[1]: Starting Certbot...
Jul 17 15:30:48 nginx-proxy systemd[1]: certbot.service: Deactivated successfully.
Jul 17 15:30:48 nginx-proxy systemd[1]: Finished Certbot.
```

```
Jul 17 15:30:48 nginx-proxy systemd[1]: certbot.service: Consumed 8.533s CPU time.
```

Nginx ????? MSIE ??

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□□ **bookstack**□□□□□□□□□□□□□□□□□

```
<html> <head><title>500 Internal Server Error</title>
</head> <body> <center>
<h1>500 Internal Server Error</h1></center> <hr><center>nginx</center>
</body> </html> <!-- a padding to disable MSIE and Chrome friendly error page -->
<!-- a padding to disable MSIE and Chrome friendly error page -->
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```

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??

□□ `/var/log/nginx/error.log`□□□□□□□□

`[alert] 1719239#1719239: *241424 write() to "/var/log/nginx/access.log" failed (28: No space left on device) while logging request`

□□□□□□□□

```
root@nginx-proxy:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/loop3       30G   28G     0 100% /
```

docker□□ log□□□□

```
root@nginx-proxy:/var/log/nginx# service docker status
* docker.service - Docker Application Container Engine
...

Sep 01 12:40:30 nginx-proxy dockerd[344]: time="2025-09-01T12:40:30.998786583+08:00"
level=error msg="Error writing log message" driver=json-file error="error wri>
```

□□□□□□□□□□ docker□ docker□ log□□□□□□ docker
□□□□□□□□□□□□□□□ stop□□□□

Nginx ?????????

Nginx□□□□□□□□□□□□□□□ `autoindex` □□□□

```
location / {
        autoindex on;
        ...
}
```

□□□□

autoindex on; □□□□□□
autoindex_exact_size off; □□□ **on** □□□□□□□□□ **bytes**□ **off** □□□ **kB**□ **MB**□ **GB**
autoindex_localtime on; □□□ **off** □□□□□□□□□ **GMT**□ **on** □□ **Server** □□□□□

```
nginx -t


service nginx reload
```

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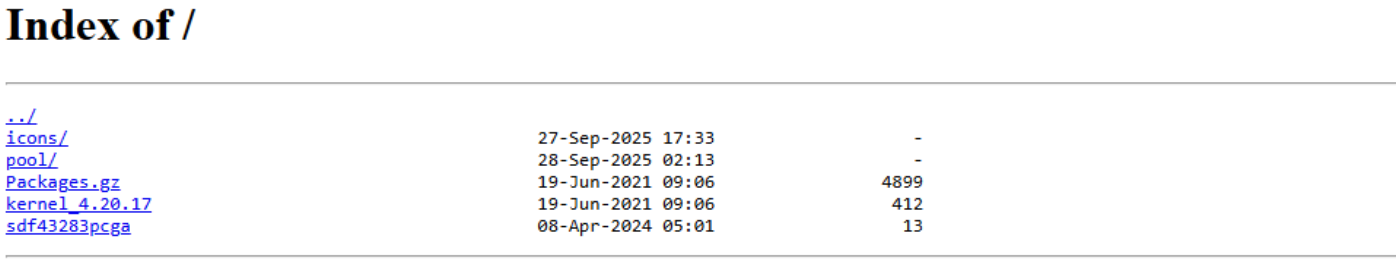

Index of /

../		
icons/	27-Sep-2025 17:33	-
pool/	28-Sep-2025 02:13	-
Packages.gz	19-Jun-2021 09:06	4899
kernel_4.20.17	19-Jun-2021 09:06	412
sdf43283pcga	08-Apr-2024 05:01	13