Pangolin

Pangolin Install and Setup Guide

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Pangolin Install Guide

Pangolin is

Most of the guide is from their doc page, however, there is a part missing for making proxy redirect work properly.

Pangolin Quick Install Guide

VPS Hardening Security Guide

Pangolin Install Guide

This will resolve an issue of https://pangolin.cyberpaw.org/auth/initial-setup site not being reachable, or getting Invalid ssl cert error.

1. Login trough SSH to VPS server that is preset with necessary security steps
2. Download the installer

```
curl -fsSL https://digpangolin.com/get-installer.sh | bash
```

3. Run the installer

```
sudo ./installer
```

4. Once installer is finished Configure basic Settings from prompts. The installer will prompt you for essential configuration:
    1. Base Domain: Enter your root domain without subdomains (e.g., example.com)
    2. Dashboard Domain: Press Enter to accept the default pangolin.example.com or enter a custom domain
    3. Let’s Encrypt Email: Provide an email for SSL certificates and admin login
    4. Tunneling: Choose whether to install Gerbil for tunneled connections (default: yes). You can run Pangolin without tunneling. It will function as a standard reverse proxy.
    5. Email Configuration: Say no, if you don't have SMTP server set up
    6. CrowdSec: say Yes to install and self manager CrowdSec
5. Once installer is ready try to go to:

```
https://pangolin.example.com/auth/initial-setup
```

If you get Invalid SSL Certificate error or Site can't be reached continue with steps below

Traefik dynamic_config.yml Change

1. Navigate to Traefik Config Directory

```
cd /config/traefik
```

2. Backup existing file

```
cp dynamic_config.yml dynamic_config.yml.bak
```

3. Edit yml

```
nano dynamic_config.yml
```

4. Add new line in router part

```
    setup-router:
      rule: "Host(`pangolin.cyberpaw.org`) && PathPrefix(`/auth`)"
      service: api-service
      entryPoints:
        - websecure
      tls:
        certResolver: letsencrypt
```

5. Save and Exit
6. Restart traefik container

```
docker restart <traefik_container_name>
```

Now try to go to initial setup and follow initial steps.

Post Install ACME Falining Fix

This guide walks you through the exact steps to diagnose and fix ACME certificate issues during a Pangolin installation. These steps cover the most common real-world causes: DNS mismatches, blocked ports, Traefik misconfiguration, and redirect loops. Follow the checklist in order—each step rules out a specific failure point so you can quickly identify what’s wrong and get ACME issuing certificates again.

Troubleshoot Steps

Verify DNS is pointing to the correct server

ACME will always fail if DNS points to the wrong IP.

- `A yourdomain.com → <your VPS IP>`
- `A *.yourdomain.com → <your VPS IP>`

1. Check your server’s public IP and make sure it matches your DNS records

```
curl ifconfig.me
```

Test port 80 from outside the server

ACME HTTP-01 requires port 80 to be reachable publicly.

1. From your laptop or phone:

```
curl -I http://yourdomain.com
```

Interpret the result:

- **200 / 301 / 404** → Port 80 is open (good)
- **Timeout** → Firewall or provider is blocking port 80
- **Connection refused** → Traefik is not listening on port 80

Check VPS firewall (UFW)

```
sudo ufw status
```

You should see

```
80/tcp   ALLOW
443/tcp  ALLOW
```

If missing:

```
sudo ufw allow 80/tcp
sudo ufw allow 443/tcp
```

Check hosting provider firewall

For example Hetzner has an external firewall that overrides UFW

1. Go to your VPS dashboard
2. Server → Networking → Firewalls

```
TCP 80
TCP 443
```

If port 80 is missing → ACME will fail every time.

Confirm Traefik is listening on port 80

1. SSH into server and run following command

```
sudo ss -tulpn | grep :80
```

Expected:

```
docker-proxy ... LISTEN ... :80
```

If nothing is listening → Traefik didn’t bind to port 80.

Disable HTTP?HTTPS redirect during ACME

This is the most common Traefik issue.

If Traefik redirects ACME requests to HTTPS before a certificate exists, ACME fails.

1. SSH into the server, and go to dynamic-compose.yaml. Usually in config > traefik folder

```
main-app-router-redirect:
  entryPoints:
    - web
  middlewares:
    - redirect-to-https
```

2. Temporarily comment out the redirect:

```
# - redirect-to-https
```

3. Restart Traefik:

```
sudo docker compose restart traefik
```

Uncomment the redirect after successful redirect

Ensure ACME is using HTTP?01 on the correct entrypoint

In traefik onfig yaml

```
httpChallenge:
  entryPoint: web
```

Entrypoints must be:

```
entryPoints:
  web:
    address: ":80"
  websecure:
    address: ":443"
```