

Host Your Own Website on Arch Linux (KDE Edition)

1. Install a Web Server

Choose one (Apache or Nginx):

Apache:

```
sudo pacman -S apache  
sudo systemctl enable --now httpd
```

Nginx:

```
sudo pacman -S nginx  
sudo systemctl enable --now nginx
```

2. Add Your Website Files

Apache path: /srv/http/

Nginx path: /usr/share/nginx/html/

Example:

```
echo "<h1>Hello World</h1>" | sudo tee /srv/http/index.html
```

3. (Optional) Install PHP & Database

PHP (Apache):

```
sudo pacman -S php php-apache  
Edit /etc/httpd/conf/httpd.conf to include PHP module.
```

MariaDB:

```
sudo pacman -S mariadb  
sudo mariadb-install-db --user=mysql --basedir=/usr --datadir=/var/lib/mysql  
sudo systemctl enable --now mariadb
```

4. Allow Web Traffic Through Firewall

```
sudo ufw allow 80  
sudo ufw allow 443
```

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5. Set Up Internet Access

Port Forwarding: Forward port 80 to your Arch machine on your router.

Dynamic DNS: Use DuckDNS or No-IP to map your changing IP to a domain.

6. Enable HTTPS (Lets Encrypt)

Install:

```
sudo pacman -S certbot python-certbot-nginx
```

Run:

```
sudo certbot --nginx
```

Certbot handles SSL certificates and auto-renewal.

7. Test Your Website

Local: `http://localhost`

LAN: `http://<your-local-IP>`

Internet: `http://<your-public-IP>` or `http://yourdomain.com`

8. Make Updates

Edit files: `sudo nano /srv/http/index.html`

Replace site: `sudo cp -r ./newsite/* /srv/http/`

9. Useful Commands

Restart:

```
sudo systemctl restart httpd (or nginx)
```

Status:

```
systemctl status httpd/nginx
```

Logs:

```
sudo journalctl -u httpd/nginx
```

```
sudo tail -f /var/log/nginx/error.log
```

10. (Optional) Developer Tips

Use Git for versioning.

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Upload with SCP:

```
scp -r ./mywebsite user@host:/srv/http/
```

Use symlink:

```
sudo ln -s ~/mywebsite /srv/http
```