

Secured Nginx and Cockpit

Instalacija NGINX, CERTBOT i osiguravanje

- instalacija servisa

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▣ Korak 1: Instaliraj Nginx i omogući HTTPS

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

▣ Korak 2: Instaliraj Certbot (Let's Encrypt) za HTTPSb

```
sudo apt install certbot python3-certbot-nginx -y
```

Generiraj certifikat za pi.local i docs.pi.local:

```
sudo certbot --nginx -d pi.local -d docs.pi.local
```

Certbot će automatski konfigurirati Nginx za HTTPS.

▣ Konfiguracija Nginx za Cockpit (HTTPS)

Cockpit već radi na portu 9090, ali želimo ga preusmjeriti na https://pi.local.

1. Omogući HTTPS u Cockpitu

Dodaj:

```
iniCopy[WebService] Origins = https://pi.local ProtocolHeader = X-Forwarded-Proto
AllowUnencrypted = false
```

Ponovo pokreni Cockpit:

```
bashCopysudo systemctl restart cockpit2. Postavi Nginx Reverse Proxy za Cockpit
bashCopysudo nano /etc/nginx/sites-available/cockpit
```

Dodaj:

```
nginxCopyserver { listen 443 ssl; server_name pi.local; ssl_certificate
/etc/letsencrypt/live/pi.local/fullchain.pem; ssl_certificate_key
/etc/letsencrypt/live/pi.local/privkey.pem; location / { proxy_pass https://localhost:9090;
proxy_set_header Host $host; proxy_set_header X-Forwarded-Proto $scheme; } }
```

Omogući konfiguraciju i restartaj Nginx:

```
bashCopysudo ln -s /etc/nginx/sites-available/cockpit /etc/nginx/sites-enabled/ sudo systemctl
restart nginx
```

Sada možeš pristupiti Cockpitu na:

🔗 <https://pi.local>

🔗 **Korak 3: Dodaj Domenu docs.pi.local1. Uredi hosts datoteku (na klijentskom računalu)**bashCopy# Na Linux/macOS uređuješ /etc/hosts # Na Windows:

C:\Windows\System32\drivers\etc\hosts 192.168.5.26 docs.pi.local**2. Postavi Nginx za docs.pi.local**bashCopysudo nano /etc/nginx/sites-available/docs

Dodaj:

```
nginxCopyserver { listen 443 ssl; server_name docs.pi.local; ssl_certificate
/etc/letsencrypt/live/pi.local/fullchain.pem; ssl_certificate_key
/etc/letsencrypt/live/pi.local/privkey.pem; root /var/www/docs; index index.html; location / {
try_files $uri $uri/ =404; } }
```

Napravi direktorij i testnu stranicu:

```
bashCopysudo mkdir -p /var/www/docs echo "<h1>🔗 Dobrodošli na docs.pi.local!</h1>" | sudo
tee /var/www/docs/index.html
```

Omogući konfiguraciju i restartaj Nginx:

```
bashCopysudo ln -s /etc/nginx/sites-available/docs /etc/nginx/sites-enabled/ sudo systemctl restart
nginx
```

Sada možeš pristupiti dokumentaciji na:

🔗 <https://docs.pi.local>

🔗 **Korak 4: Instaliraj PHP 8 i MySQL 81. Dodaj ondrej/php repozitorij**bashCopysudo apt
install lsb-release ca-certificates apt-transport-https software-properties-common -y sudo add-apt-
repository ppa:ondrej/php -y sudo apt update**2. Instaliraj PHP 8.3 + potrebni moduli**
bashCopysudo apt install php8.3-fpm php8.3-mysql php8.3-curl php8.3-gd php8.3-mbstring -y**3.
Instaliraj MySQL 8**bashCopysudo apt install mysql-server-8.0 -y sudo mysql_secure_installation #
Postavi root lozinku**4. Postavi Nginx za PHP**bashCopysudo nano /etc/nginx/sites-available/php

Dodaj:

```
nginxCopyserver { listen 443 ssl; server_name db.pi.local; ssl_certificate
/etc/letsencrypt/live/pi.local/fullchain.pem; ssl_certificate_key
/etc/letsencrypt/live/pi.local/privkey.pem; root /var/www/php; index index.php index.html; location /
{ try_files $uri $uri/ =404; } location ~ \.php$ { include snippets/fastcgi-php.conf; fastcgi_pass
unix:/run/php/php8.3-fpm.sock; } }
```

Napravi direktorij i testnu PHP stranicu:

```
bashCopysudo mkdir -p /var/www/php echo "<?php phpinfo(); ?>" | sudo tee /var/www/php/index.php
```

Omogući konfiguraciju i restartaj Nginx:

```
bashCopysudo ln -s /etc/nginx/sites-available/php /etc/nginx/sites-enabled/ sudo systemctl restart nginx
```

Sada možeš testirati PHP na:

☐ **<https://db.pi.local>**

☐ **Korak 5: Instaliraj phpMyAdmin1. Preuzmi i instaliraj phpMyAdmin**

```
bashCopysudo apt install phpmyadmin -y
```

- Odaberi **Nginx** prilikom instalacije.
- Poveži phpMyAdmin s MySQL-om.

2. Postavi Nginx za phpMyAdmin

```
bashCopysudo nano /etc/nginx/sites-available/phpmyadmin
```

Dodaj:

```
nginxCopyserver { listen 443 ssl; server_name db.pi.local; ssl_certificate /etc/letsencrypt/live/pi.local/fullchain.pem; ssl_certificate_key /etc/letsencrypt/live/pi.local/privkey.pem; root /usr/share/phpmyadmin; index index.php; location / { try_files $uri $uri/ =404; } location ~ \.php$ { include snippets/fastcgi-php.conf; fastcgi_pass unix:/run/php/php8.3-fpm.sock; } }
```

Omogući konfiguraciju i restartaj Nginx:

```
bashCopysudo ln -s /etc/nginx/sites-available/phpmyadmin /etc/nginx/sites-enabled/ sudo systemctl restart nginx
```

Sada možeš pristupiti phpMyAdmin-u na:

☐ **<https://db.pi.local>**

☐ **Korak 6: Finalni Test**

- **Cockpit:** <https://pi.local>
- **Dokumentacija:** <https://docs.pi.local>
- **MySQL + phpMyAdmin:** <https://db.pi.local>

☐ **Savjet:** Ako koristiš **Cloudflare**, možeš postaviti **Tunnel** za sigurnu izloženost na internetu.