

# openITCOCKPIT behind a reverse proxy

- [Nginx](#)
- [Apache2](#)

To run openITCOCKPIT behind a reverse proxy no configuration options to the Nginx configuration on the openITCOCKPIT host is required.

Example values that needs to be replaced:

Value	Description
openitcockpit.example.org	Subdomain used to access the openITCOCKPIT web frontend
/etc/ssl/certs/ssl-cert-snakeoil{.pem .key}	File path to the TLS certificate to enable HTTPS
207.154.223.22	Public IPv4 address of the reverse proxy
157.230.114.24	IPv4 address of the openITCOCKPIT server

## Nginx

1. Copy the following configuration to /etc/nginx/sites-available/openitcockpit-proxy

### /etc/nginx/sites-available/openitcockpit-proxy

```
server {
    listen 80;
    listen [::]:80;
    server_name openitcockpit.example.org;

    server_tokens off;
    return 301 https://$host$request_uri;
}

server {

    listen 443 ssl http2;
    listen [::]:443 ssl http2;
    server_name openitcockpit.example.org;

    server_tokens off;

    # Set the IP Address or FQDN of your openITCOCKPIT Monitoring Server here
    set $oitcserver 157.230.114.24;

    # Set the TLS certificate you like to use - for example Let's Encrypt
    ssl_certificate /etc/ssl/certs/ssl-cert-snakeoil.pem;
    ssl_certificate_key /etc/ssl/private/ssl-cert-snakeoil.key;

    # Proxy openITCOCKPIT HTTP requests
    location / {
        proxy_pass https://$oitcserver;
        proxy_ssl_verify off;

        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
    }

    # Proxy Web Socket Connections
    location ~ ^/(sudo_server|push_notifications|nsta)$ {
        proxy_pass https://$oitcserver;
        proxy_ssl_verify off;

        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;

        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
    }
}
```

Please make sure to replace all ip addresses.

### 2. Enable the configuration

```
ln -s /etc/nginx/sites-available/openitcockpit-proxy /etc/nginx/sites-enabled/openitcockpit-proxy
```

### 3. Restart the web server

```
systemctl restart nginx
```

## Apache2

1. Copy the following configuration to `/etc/apache2/sites-available/openitcockpit-proxy.conf`

### `/etc/apache2/sites-available/openitcockpit-proxy.conf`

```
<VirtualHost 207.154.223.22:80>
    ServerName openitcockpit.example.org
    Redirect / https://openitcockpit.example.org/

    ErrorLog ${APACHE_LOG_DIR}/openitcockpit_error.log
    CustomLog ${APACHE_LOG_DIR}/openitcockpit_access.log combined
</VirtualHost>

<VirtualHost 207.154.223.22:443>
    ServerName openitcockpit.example.org

    # Set the IP Address or FQDN of your openITCOCKPIT Monitoring Server here
    Define oitcserver 157.230.114.24

    ServerSignature Off

    # HTTPS
    SSLEngine on
    SSLCertificateKeyFile /etc/ssl/private/ssl-cert-snakeoil.key
    SSLCertificateFile /etc/ssl/certs/ssl-cert-snakeoil.pem

    # Logging
    ErrorLog ${APACHE_LOG_DIR}/openitcockpit_error.log
    CustomLog ${APACHE_LOG_DIR}/openitcockpit_access.log combined

    # Reverse Proxy Settings
    ProxyPreserveHost On
    SSLProxyEngine On
    SSLProxyCheckPeerName Off

    RequestHeader set X-Forwarded-Proto "https"
    RequestHeader set X-Forwarded-Port "443"
    RequestHeader set X-Forwarded-Ssl on

    # Proxy WebSocket requests
    RewriteEngine On
    RewriteCond %{HTTP:Upgrade} =websocket [NC]
    RewriteRule /(.*) wss://${oitcserver}/${$1} [P,L]

    ProxyPass / https://${oitcserver}/
    # If you use a FQDN for external access
    ProxyPassReverse / https://openitcockpit.example.org/
    # If you use an ip address for external access
    #ProxyPassReverse / https://207.154.223.22/

</VirtualHost>
```

Please make sure to replace all ip addresses.

2. Load all required Apache Modules

```
a2enmod http2
a2enmod ssl
a2enmod proxy
a2enmod proxy_http
a2enmod proxy_wstunnel
a2enmod headers
a2enmod rewrite
```

3. Enable the configuration

```
a2ensite openitcockpit-proxy
```

4. Restart the web server

```
systemctl restart apache2
```