

# Nginx

Создать директорию nginx\_config.conf и внутри файл python\_microservices

```
server {  
    listen 8080;  
  
    location /api/firstendpoint {  
        proxy_pass http://firstendpoint:8000/api/firstendpoint;  
    }  
  
    location /api/secondendpoint {  
        proxy_pass http://secondendpoint:8000/api/secondendpoint;  
    }  
}
```

Compose:

```
version: '3.7'  
  
services:  
    nginx:  
        image: nginx:latest  
        ports:  
            - "8080:8080"  
        volumes:  
            - ./nginx_config.conf:/etc/nginx/conf.d/default.conf  
        depends_on:  
            - cast_service  
            - movie_service
```

[Источник](#)

## NGINX reverse proxy с https терминацией

Обслуживает несколько доменов, для одного из доменов путь /auth ведет на отдельный сервер

## Структура проекта:

```
>certs
.env
docker-compose.yaml
nginx.conf.template
```

**Директория certs:** сертификаты в формате <domain name>.cert и <domain name>.key

### .env

```
# Backend сервисы
WOOD_BACKEND_IP=192.168.1.194
WOOD_BACKEND_PORT=8000
HUB_BACKEND_IP=192.168.1.194
HUB_BACKEND_PORT=8021
HUB_BACKEND_WEB_PORT=8020

WOOD_AUTH_IP=192.168.1.194
WOOD_AUTH_PORT=8001

# Домены
HUB_DOMAIN=hub.bobrobotirk.ru
HUB_WEB_DOMAIN=hubui.bobrobotirk.ru
WOOD_DOMAIN=wood.bobrobotirk.ru
```

### nginx.conf.template

```
worker_processes auto;

events {
    worker_connections 1024;
}

http {
    include mime.types;
    default_type application/octet-stream;
    sendfile on;
    keepalive_timeout 65;

    # SSL-настройки
```

```
ssl_protocols TLSv1.2 TLSv1.3;
ssl_prefer_server_ciphers on;
ssl_ciphers 'ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-ECDSA-AES256-
GCM-SHA384:ECDHE-RSA-AES256-GCM-SHA384';
ssl_session_timeout 1d;
ssl_session_cache shared:SSL:50m;

# Upstreams
upstream hub_backend {
    server ${HUB_BACKEND_IP}:${HUB_BACKEND_PORT};
}

upstream hub_backend_web {
    server ${HUB_BACKEND_IP}:${HUB_BACKEND_WEB_PORT};
}

upstream wood_backend {
    server ${WOOD_BACKEND_IP}:${WOOD_BACKEND_PORT};
}

upstream wood_auth_backend {
    server ${WOOD_AUTH_IP}:${WOOD_AUTH_PORT};
}

# HTTP → HTTPS редирект
server {
    listen 80;
    server_name ${HUB_DOMAIN} ${WOOD_DOMAIN};
    return 301 https://$host$request_uri;
}

# Конфиг для hub.bobrobotirk.ru
server {
    listen 443 ssl;
    server_name ${HUB_DOMAIN};

    ssl_certificate /etc/nginx/certs/${HUB_DOMAIN}.crt;
    ssl_certificate_key /etc/nginx/certs/${HUB_DOMAIN}.key;

    location / {
```

```

    proxy_pass http://hub_backend;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-Proto $scheme;
}
}

server {
    listen 443 ssl;
    server_name ${HUB_WEB_DOMAIN};

    ssl_certificate /etc/nginx/certs/${HUB_WEB_DOMAIN}.cert;
    ssl_certificate_key /etc/nginx/certs/${HUB_WEB_DOMAIN}.key;

    location / {
        proxy_pass http://hub_backend_web;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
    }
}

# Конфиг для wood.bobrobotirk.ru
server {
    listen 443 ssl;
    server_name ${WOOD_DOMAIN};

    ssl_certificate /etc/nginx/certs/${WOOD_DOMAIN}.cert;
    ssl_certificate_key /etc/nginx/certs/${WOOD_DOMAIN}.key;

    location /auth {
        proxy_pass http://wood_auth_backend;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
    }

    location / {
        proxy_pass http://wood_backend;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
    }
}

```

```
}  
}
```

## docker-compose.yml

```
services:  
  nginx-proxy:  
    image: nginx:latest  
    container_name: nginx-proxy  
    hostname: nginx-proxy  
    ports:  
      - "80:80"  
      - "443:443"  
    volumes:  
      - ./nginx.conf.template:/etc/nginx/templates/nginx.conf.template  
      - ./certs:/etc/nginx/certs  
    env_file:  
      - .env # Подключаем переменные из файла  
    command: >  
      /bin/sh -c "  
        envsubst '${HUB_BACKEND_IP} ${HUB_BACKEND_PORT} ${HUB_BACKEND_WEB_PORT}  
        ${WOOD_BACKEND_IP}  
        ${WOOD_BACKEND_PORT} ${WOOD_AUTH_IP} ${WOOD_AUTH_PORT}  
        ${HUB_DOMAIN} ${HUB_WEB_DOMAIN} ${WOOD_DOMAIN}'  
        < /etc/nginx/templates/nginx.conf.template  
        > /etc/nginx/nginx.conf  
        && nginx -g 'daemon off;'  
      "  
    restart: no
```

Revision #3

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