

WANFi Control and Billing Management System

准备工作

- 硬件要求

```
CPU:    >= 4 core
Memory: >= 16GiB
Storage:
  OS:    >= 50GiB
  /opt/wfc: >= 50GiB # work and database storage
  /var/lib/docker: >= 50GiB
```

- 系统环境

```
Linux >= Ubuntu 22.04
JDK >= 1.8 (Recommended version 1.8) (用于Omada SDN Controller)
docker >= 24.0.7, build 24.0.7-0ubuntu2~22.04.1
docker-compose >= v2.10.0
```

- 安装docker和docker-compose

```
sudo apt-get update
sudo apt-get install -y docker.io
sudo curl -L
"https://github.com/docker/compose/releases/download/v2.10.0/docker-
compose-$(uname -s | tr '[:upper:]' '[:lower:]')-$(uname -m)" -o
/usr/bin/docker-compose
sudo chmod +x /usr/bin/docker-compose
```

- 请确认docker和docker-compose的版本是否符合要求

```
docker -v
docker-compose -v
```

获取安装包

安装包名：wfc-1.0.2-20241212.tar.gz

说明：

- 版本号：1.0.2

- 构建日期：20241212

根据情况获取最新版本的软件安装包

安装和配置软件

- 创建安装目录

```
sudo mkdir /opt/wfc
```

- 解压软件包至安装目录

```
sudo tar xvfz wfc-1.0.2-20241212.tar.gz -C /opt/wfc
```

- 安装后目录树

```
/opt/wfc                                     # work root directory
├── bin                                       # shell script and binary file
├── docker                                   # docker compose work directory
│   ├── env                                 # default docker environment file, will be
copy to docker compose work directory
│   ├── java                               # java image directory
│   ├── mysql                              # mysql database container directory
│   │   ├── conf
│   │   ├── conf.d
│   │   ├── data
│   │   ├── db
│   │   ├── logs
│   │   └── tmp
│   ├── nacos                             # nacos container directory
│   │   ├── conf
│   │   └── logs
│   ├── nginx                             # nginx container directory
│   │   ├── conf
│   │   ├── conf.d
│   │   ├── html
│   │   │   └── dist
│   │   │       ├── sys # system portal
│   │   │       └── u   # user portal
│   │   └── logs
│   ├── redis                             # redis container directroy
│   │   ├── conf
│   │   └── data
│   └── wfc                                # wfc container root directory
│       ├── auth                          # auth root directory
│       │   └── jar
│       ├── gateway                       # gateway root directory
│       └── jar
```

```

├── modules                                # modules root directory
│   ├── file
│   │   └── jar
│   ├── gen
│   │   └── jar
│   ├── job
│   │   └── jar
│   ├── payment
│   │   └── jar
│   ├── system
│   │   └── jar
│   └── user
│       └── jar
├── upload                                # file upload directory
├── visual
│   └── monitor
│       └── jar
└── systemd                               # service daemon file , will be copy to
    /etc/systemd/system
        └── system

```

- 配置软件

```

cd /opt/wfc/bin
sudo ./wfcsetup.sh all 192.168.13.128 # 参数2是宿主机IP地址

```

- 修改docker环境参数

根据实际情况修改如下环境参数配置(*WFC_SERVER_IP的地址已经在上面配置过程被替换)：

```

cd /opt/wfc/docker
cat .env
WFC_CONFIG_DATABASE=wfc_config_db
WFC_SYSTEM_DATABASE=wfc_system_db
WFC_USER_DATABASE=wfc_user_db
MYSQL_SERVICE_NAME=wfc-mysql
MYSQL_SERVICE_PORT=3306
MYSQL_ROOT_PASSWORD=123456
MYSQL_SERVICE_USER=root
MYSQL_SERVICE_PASSWORD=123456
REDIS_PORT=6379
NACOS_PROFILE_NAME=prod
NACOS_NAME_SPACE=wfc-prod
NACOS_SERVER_NAME=wfc-nacos
WFC_SERVER_PORT=80
NACOS_SERVER_PORT=8848
GATEWAY_SERVER_PORT=8080
AUTH_SERVER_PORT=8081
WFC_FILE_PORT=9201

```

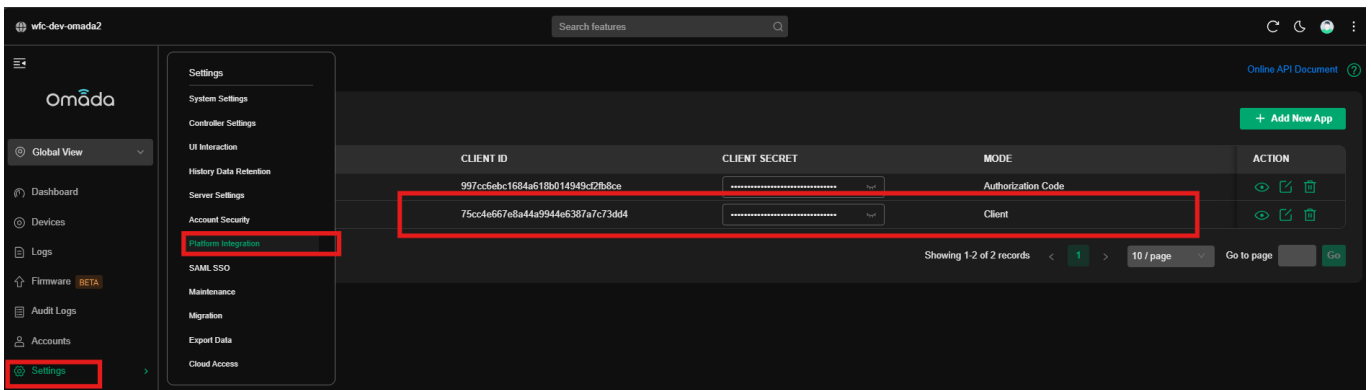
```

WFC_JOB_PORT=9203
WFC_PAYMENT_PORT=9204
WFC_SYSTEM_PORT=9205
WFC_USER_PORT=9206
WFC_SERVER_IP=192.168.13.128
NACOS_SERVER_IP=${WFC_SERVER_IP}
GATEWAY_SERVER_IP=${WFC_SERVER_IP}
RESTART_OPTION=on-failure:5

```

配置整合Omada平台的连接参数

- 从Omada服务中获取门户平台整合连接参数，如下图：



注意：连接的MODE采用Client，具体的配置方式可参考Omada的相关文档

- 修改配置文件

修改如下omada的配置项

```

cd /opt/wfc/conf
cat application-common.yml
spring:
  autoconfigure:
    exclude:
com.alibaba.druid.spring.boot.autoconfigure.DruidDataSourceAutoConfigure
  mvc:
    pathmatch:
      matching-strategy: ant_path_matcher
  # 资源信息
  messages:
    # 国际化资源文件路径
    basename: i18n/messages

# feign 配置
feign:
  sentinel:
    enabled: true
  okhttp:
    enabled: false
  httpclient:

```

```
        enabled: true
        disable-ssl-validation: true
    client:
        config:
        default:
            connectTimeout: 60000
            readTimeout: 60000
    compression:
        request:
        enabled: true
        min-request-size: 8192
        response:
        enabled: true

# 暴露监控端点
management:
    endpoints:
        web:
        exposure:
            include: '*'

# Omada 配置
omada:
    omada-url: 'https://192.168.2.249:8043'
    omadac-id: 'f3aa6e479b94222581523710cc2c2a9d'
    client-id: '5036e77c81a74008821c694a715fe2b8'
    client-secret: '29faa06fb7f244b094377b48eb3083a7'
```

- 启动/查看/停止/版本软件

```
cd /opt/wfc/bin
sudo ./wfccontrol.sh start/restart/status/stop/version
```

通过浏览器访问客户平台和用户平台

- 客户平台门户地址：

```
http://192.168.13.128/sys
```

- 用户平台门户地址：

```
http://192.168.13.128/u
```