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|  <b>国信互通</b><br>— caniot — | <b>系统软件部署操作手册</b> |  | 文件编号 | DII-SW-S-HS |
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# 系统软件部署操作手册

北京国信互通科技有限公司

|                                                                                                             |                   |  |      |             |
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## 前言

非常感谢您购买我司的产品，如果您有任何疑问或需要请随时联系我们。

本手册可能包含技术上不准确的地方、或与产品功能及操作不相符的地方、或印刷错误。我司将根据产品功能的增强而更新本手册的内容，并将定期改进或更新本手册中描述的产品或程序。更新的内容将会在本手册的新版本中加入，恕不另行通知。

|                                                                                   |            |      |             |
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## 一、软件简介

### 1.1 概述

视频监控系统软件采用分布式集群架构，结合智能视频分析和手机监控，将分散、独立的现场监控点进行联网，实现跨区域、统一监控和统一管理，为各行各业的管理决策者提供了一种全新的、直观的管理工具。除了具备对监控图像的实时监看、回放、检索功能，支持对前端设备的控制与管理，并可结合各行业业务流程，与行业业务系统实现融合对接，全面实现监控、取证、调度、管理等应用。

### 1.2 运行环境

操作系统：linux 系统版本为 ubuntu20.04

数据库：Mysql 5.5 版本以上。

安装平台，需要映射的基本端口有：

|                         |              |                    |
|-------------------------|--------------|--------------------|
| emqx: 26883 26884 26885 | nacos: 38848 | nginx: 28899 28868 |
| rabbitmq: 27658 27656   | redis: 36379 | mysql: 36457       |
| srs: 19935 19080        | api接口: 21188 |                    |

## 二、平台安装

### 1 基础环境

**`vim /etc/netplan/00-installer-config.yaml`** #进入网络配置（文件修改永久固定 ip）使用桥接  
修改格式如下：

|                                                                                                      |            |  |      |             |
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```
# This is the network config written by 'subiquity'
network:
  ethernet:
    ens33:
      dhcp4: no
      addresses: [192.168.50.61/24]
      gateway4: 192.168.50.1
      nameservers:
        addresses: [8.8.8.8]
  version: 2
```

`netplan apply` #刷新

`apt-get install gcc g++ cmake` #使用默认源提前安装这些依赖（因系统版本过高更改国内源后，国内源没有高版本依赖导致错误）

## 2 安装 docker

`apt-get remove docker docker-engine docker-ce docker.io` #卸载旧版本 docker

`apt-get update` #更新 apt 包索引

`apt-get install -y apt-transport-https ca-certificates curl software-properties-common` #安装以下包使 apt 可以通过 https 使用存储库（repository）

`curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -` #（添加 GPG 密钥）

```
root@ubuntu:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg |
sudo apt-key add -
OK
```

`add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"` #设置 stable 存储库

`apt-get update` #在更新下 apt 包索引

`apt-get install -y docker-ce` #安装最新版本 docker-ce

`systemctl status docker` #查看 docker 服务是否启动



```
root@ubuntu:~# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor>
   Active: active (running) since Tue 2021-11-30 07:21:22 UTC; 3min 42>
   TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
   Main PID: 8914 (dockerd)
   Tasks: 9
   Memory: 29.8M
   CGroup: /system.slice/docker.service
           └─8914 /usr/bin/dockerd -H fd:// --containerd=/run/contain>

Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.05676399>
Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.05677107>
Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.05677486>
Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.05688838>
Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.30208967>
Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.36080951>
Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.38156004>
Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.38171616>
Nov 30 07:21:22 ubuntu systemd[1]: Started Docker Application Container>
Nov 30 07:21:22 ubuntu dockerd[8914]: time="2021-11-30T07:21:22.40461562>
lines 1-21/21 (END)
```

若未启动，则启动 docker 服务：

`systemctl start docker`

测试

`docker run hello-world`

```
e4f685
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly
.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs
    the executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which se
    nt it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/

root@ubuntu:~#
```

|                                                                                                      |            |  |      |             |
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#成功

### 3 配置阿里云镜像加速

`mkdir -p /etc/docker` #创建目录

`vim /etc/docker/daemon.json` #进入 daemon.json 添加如下

```
{ "registry-mirrors": ["https://vw2t5h4k.mirror.aliyuncs.com"],  
  "insecure-registries":["106.14.214.143:5000"] }
```

```
"registry-mirrors": ["https://vw2t5h4k.mirror.aliyuncs.com"],  
"insecure-registries": ["106.14.214.143:5000"]
```

`systemctl daemon-reload` #重新加载配置文件

`systemctl restart docker` #重启 docker

如果提示 `systemctl` 找不到, 执行 `apt-get install --reinstall systemd`

### 4 部署 docker-compose

`curl -L`

`"https://get.daocloud.io/docker/compose/releases/download/1.29.1/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose` #部署 docker-compose (docker 管理工具)

`chmod +x /usr/local/bin/docker-compose` #添加执行权限

`docker-compose -v` #查看版本

`apt install lrzsz` #安装 lrzsz 包使用 rz sz 命令

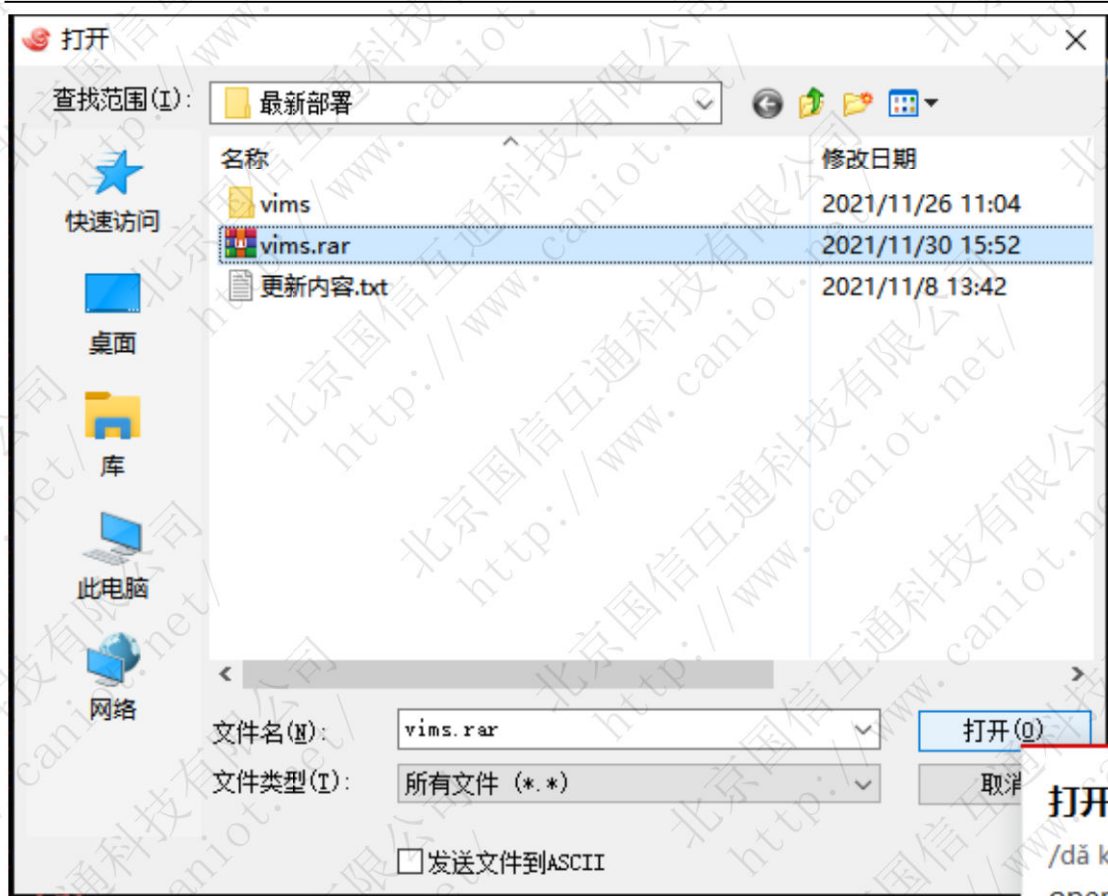
### 5 修改其他配置

`rz -be` #上传 vims.rar 到/目录下



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```
unrar x vims.rar #解压到/  
docker network create vims #创建 vims 网络  
vim /vims/docker-compose/#  
vim /vims/docker-compose/docker-compose.yml #进入 docker-compose 修改配置注意版本更新
```

```
back:  
  image: 106.14.214.143:5000/vims_back_2021_11_26:1.0  
  # image: vims_back:latest  
  container_name: vims_back  
  ports:  
    - 8088:8088  
  networks:  
    - vims  
  environment:  
    - HOST_IP=http://192.168.50.61:88 # 在这设置  
  depends_on:  
    - gateway  
  volumes:  
    - /vims/apk:/usr/apk/  
    - ./entrypoint.sh:/entrypoint.sh  
    - /etc/timezone:/etc/timezone  
    - /etc/localtime:/etc/localtime  
  tty: true
```

HOST\_IP设置为虚拟机IP



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```
ports:
  - 9003:9003
networks:
  - vims
depends_on:
  - mqtt
environment:
  - HOST_IP=http://192.168.50.61:88 # 在这设置
  - HOST_IMAGE_HTTPS_IP=https://192.168.50.61:9999
volumes:
  - ./entrypoint.sh:/entrypoint.sh
  - /vims/compare:/usr/compare/
  - /vims/image:/usr/image/
  - /etc/timezone:/etc/timezone
  - /etc/localtime:/etc/localtime
tty: true
```

HOST\_IP设置为虚拟机ip  
HOST\_IMAGE\_HTTPS\_IP设置为  
nginx中配置的ip的https端口

`:wq` #保存退出

`cd /vims/nginx/data/system/dist/` #进入 dist 目录

`vim conf.js` #进入 conf.js 配置文件 修改如下

```
//
//接口地址
window.server_ip = {
  // BASE_URL:"http://39.99.158.36:15465/api",
  // BASE_URL:"http://47.103.39.109:15465/api",
  // BASE_URL:"http://106.14.214.143:88/api",
  BASE_URL:"http://192.168.50.61:88/api", BASE_URL修改为虚拟机IP
};
~
```

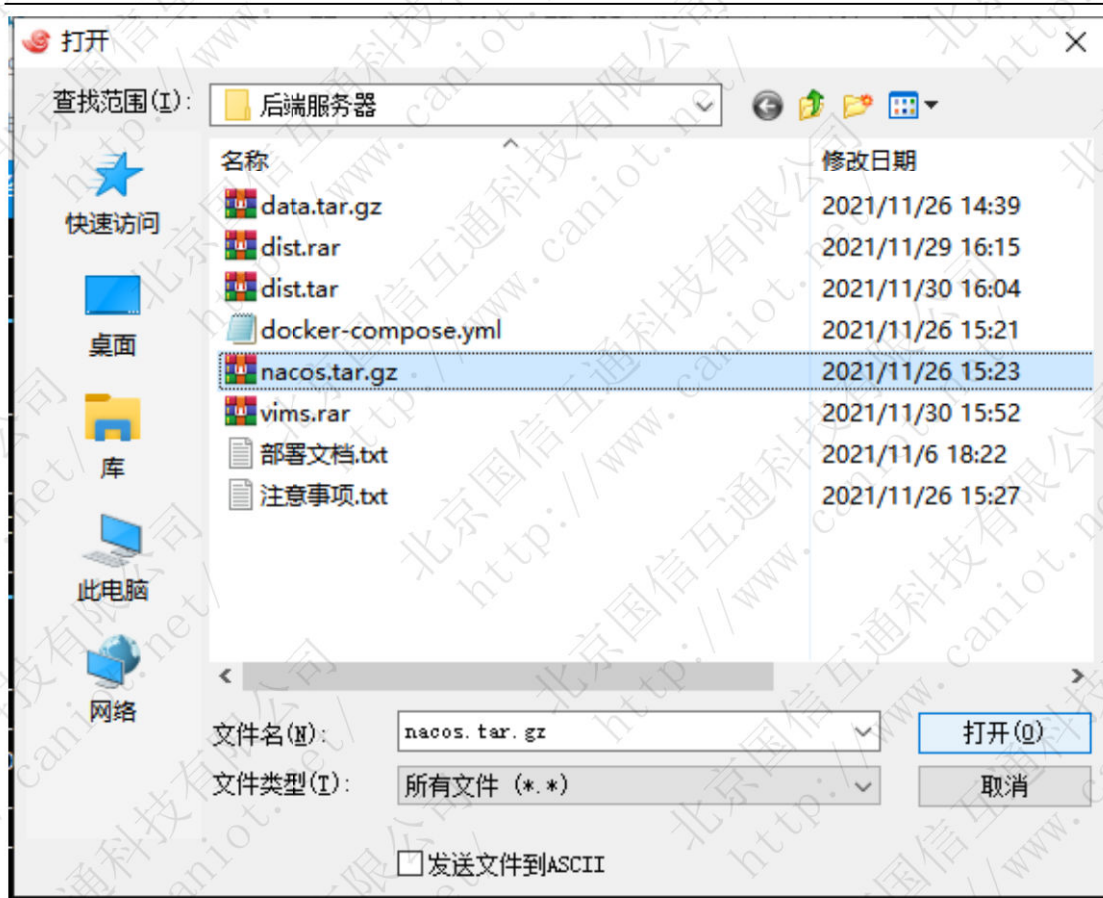
`rm -rf /vims/nacos` #删除原 nacos 目录 (版本更新)

`rz` #上传新 nacos.tar.gz



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`tar -zxvf nacos.tar.gz` #解压到/vims 中

`rm -rf /vims/mysql/data/` #删除 data 目录 (版本更新)

`rz` #上传到新版本 data 到/vims/mysql

`tar -zxvf data.tar.gz` #解压

`cd /vims/docker-compose/` #进入到这个目录

`docker-compose up` #使用 docker-compose 一键部署在 docker 中的其他服务

```
root@ubuntu:/vims/docker-compose# docker-compose up
Pulling gateway (106.14.214.143:5000/vims_gateway_2021_11_26:1.0)...
1.0: Pulling from vims_gateway_2021_11_26
7448db3b31eb: Downloading [=====] 42.66MB/52.47MB
c36604fa7939: Download complete
29e8ef0e3340: Download complete
a0c934d2565d: Download complete
a360a17c9cab: Download complete
cfcc996af805: Download complete
2cf014724202: Downloading [=====] 54.82MB/131.6MB
4bc402a00dfe: Download complete
17fd1ea71d4e: Download complete
32b8ce3376d3: Download complete
c1c9054ff209: Download complete
8bb897e16cca: Download complete
077cb0596b1d: Download complete
ea6183680b36: Download complete
f5cd76f202b2: Download complete
11796527f140: Download complete
d49f1becf4f7: Downloading [=====] 23.27MB/52.91MB
190465aee75a: Waiting
```

稍等几分钟



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```
status: Downloaded newer image for nginx:latest
Creating nginx ... done
Creating mysql_5.7 ... done
Creating emq ... done
Creating rabbitmq ... done
Creating vims_gateway ... error
Creating nacos ... done
Creating redis ... done

ERROR: for vims_gateway Cannot start service gateway: OCI runtime create failed: container_linux
Creating redis ... done
```

```
ERROR: for gateway Cannot start service gateway: OCI runtime create failed: container_linux.go:3
80: starting container process caused: exec: "/entrypoint.sh": permission denied: unknown
ERROR: Encountered errors while bringing up the project.
```

```
root@ubuntu:/vims/docker-compose#
```

vims\_gateway 显示 error (经检查是/vims/docker-compose/下的文件需要给上执行权限)

chmod +x docker-compose.yml

chmod +x entrypoint.sh

顺便修改如下:

vim /vims/nginx/conf/default.conf #进入配置文件

```
#转发https-flv流的地址==下面ip要随着不同服务器ip进行修改
location ^~ /video/ {
    proxy_set_header X-Forwarded-Proto $scheme;
    proxy_set_header Host $http_host;
    proxy_set_header X-Real-IP $remote_addr;
    add_header Access-Control-Allow-Origin *;
    add_header Access-Control-Allow-Methods 'GET, POST, OPTIONS';
    add_header Access-Control-Allow-Headers 'DNT,X-Mx-ReqToken,Keep-Alive
,User-Agent,X-Requested-With,If-Modified-Since,Cache-Control,Content-Type,Authori
zation';
    proxy_pass http://192.168.50.6:8080/; 修改对应到srs的flv和端口
}
```

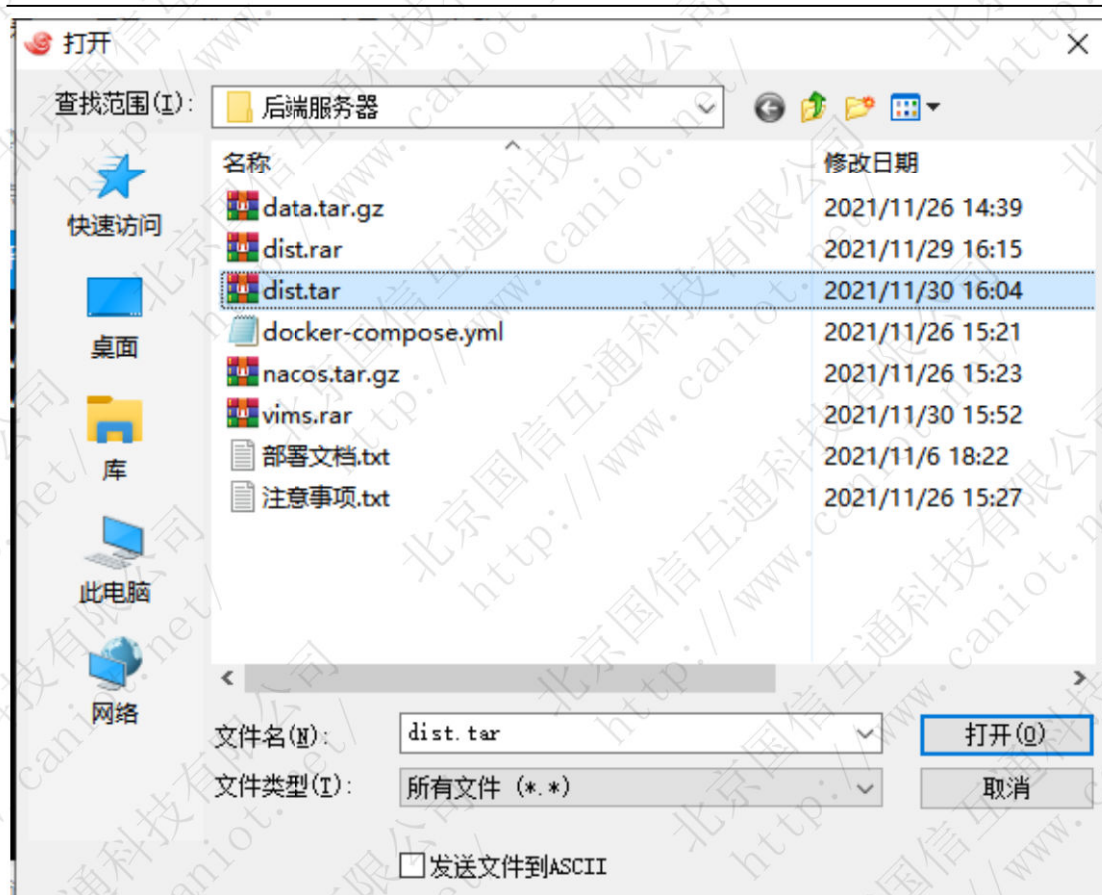
cd /vims/nginx/data/web/

rz #上传 dist 包



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tar xvf dist.tar #解压到/vim/nginx/data/web/

vim /vims/nginx/data/web/dist/conf.js #进入到配置文件中 修改如下

```
//mqtt 服务器地址
window.server_mqtt_ip = {
  // BASE_URL:"47.105.202.28",
  //BASE_URL:"192.168.2.235",
  // BASE_URL:"192.168.146.131"
  BASE_URL:"192.168.50.61"
}
//srs服务器里nginx服务器里的live文件保存录像，filelist推的是live里的文件夹
window.server_file_ip = {
  //BASE_URL:"http://192.168.2.235:88/api/back/srsRecord/getRecordVideo",
  BASE_URL:"http://192.168.50.61:88/api/back/srsRecord/getRecordVideo",
  BASE_URL_live:"http://192.168.50.61:8080/live/"
}
//Gps查询的地址
window.server_gps_ip = {
  //BASE_URL:"http://192.168.2.235:88/api/search/gps/getGpsForHistoryRunData"
  BASE_URL:"http://192.168.50.61:88/api/search/gps/getGpsForHistoryRunData"
```

docker ps #查看当前运行容器



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```
ff7c552955dc  nginx:latest  "/docker-entrypoint...."  14 minutes a
go  Restarting (1) 33 seconds ago

nginx
root@ubuntu:/vims/nginx/data/web/dist# docker stop ff7
ff7
root@ubuntu:/vims/nginx/data/web/dist# docker start ff7
ff7
root@ubuntu:/vims/nginx/data/web/dist#
```

重启下 nginx 的容器

`cd /vims/docker-compose` #重新进入此目录

`docker-compose up` #重新启动

```
stem property archaius.configurationSource.additionalUrls or make config.properties a
vailable on classpath.
vims_search | 2021-12-01 10:01:34.785 WARN 54 --- [          main] c.n.c.sources.UR
LConfigurationSource : No URLs will be polled as dynamic configuration sources.
vims_search | 2021-12-01 10:01:34.786 INFO 54 --- [          main] c.n.c.sources.UR
LConfigurationSource : To enable URLs as dynamic configuration sources, define Sy
stem property archaius.configurationSource.additionalUrls or make config.properties a
vailable on classpath.
vims_search | 2021-12-01 10:01:34.862 INFO 54 --- [          main] o.s.s.concurrent
.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
vims_search | 2021-12-01 10:01:35.133 INFO 54 --- [          main] o.s.s.c.ThreadPo
olTaskScheduler : Initializing ExecutorService
vims_search | 2021-12-01 10:01:35.419 INFO 54 --- [          main] o.s.b.w.embedded
.Tomcat.TomcatWebServer : Tomcat started on port(s): 9003 (http) with context path '
'
vims_search | 2021-12-01 10:01:35.479 INFO 54 --- [          main] c.a.c.n.registry
.NacosServiceRegistry : nacos registry, vims-search 172.18.0.11:9003 register fini
shed
vims_search | 2021-12-01 10:01:35.969 INFO 54 --- [          main] com.vims.search.
VimsSearchApplication : Started VimsSearchApplication in 8.845 seconds (JVM runnin
g for 9.361)
emq | 2021-12-01T10:01:47.105101+00:00 [warning] [Alarm Handler] Alarm high_s
ystem_memory_usage is activated, System memory usage is higher than 70%
nginx | 192.168.50.103 - - [01/Dec/2021:10:02:14 +0000] "GET /conf.js HTTP/1.1"
304 0 "http://192.168.50.61:28848/" "Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKi
```

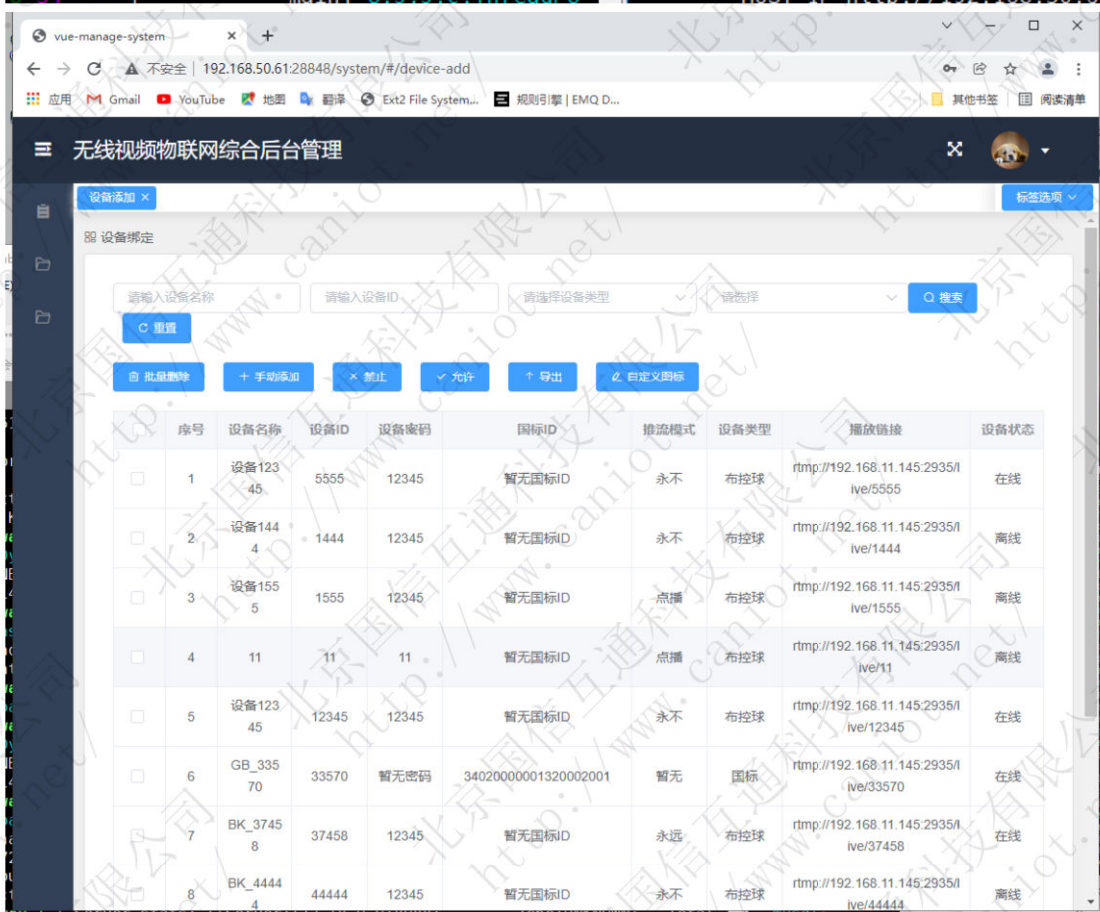
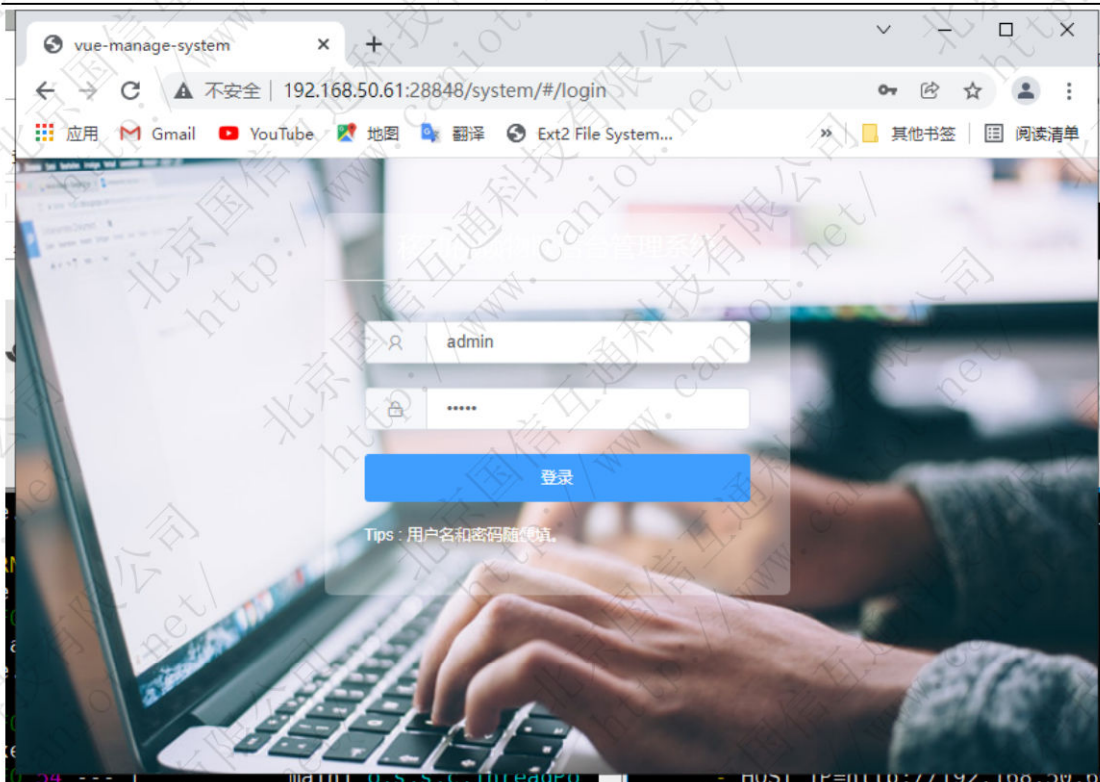
没有报错 到平台测试下

浏览器输入 192.168.50.61:28848/system id:admin passwd:12345



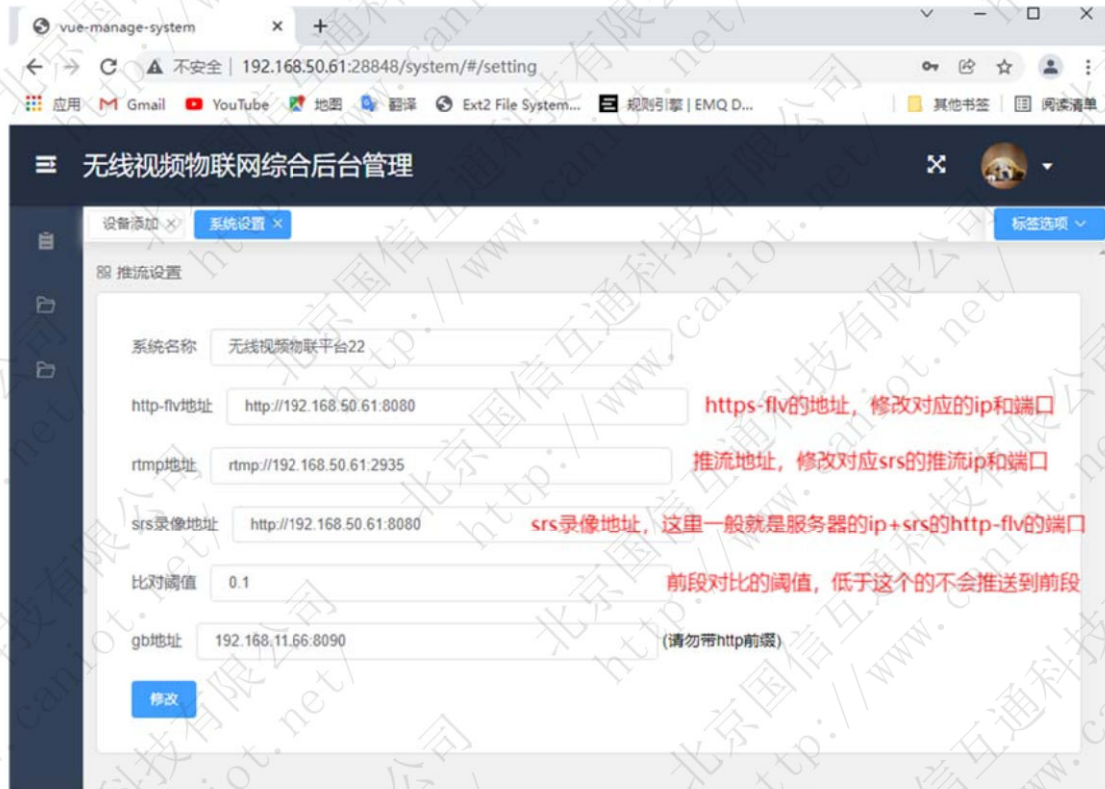
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可以登录 web 上直接修改配置



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