

# GenieACS指南

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- 官网
- 安装
  - 安装nodejs
  - 安装MongoDB
    - Start MongoDB
    - Stop MongoDB
    - Restart MongoDB
  - 卸载MongoDB
  - 安装GenieACS
    - 从NPM安装
    - 配置systemd及配置文件：
    - 创建log文件夹
    - 创建systemd单元文件
- 环境变量
- Web UI访问

## 官网

GenieACS is an open source TR-069 remote management solution with advanced device provisioning capabilities.

- 官网: <https://genieacs.com/>
- 文档: <https://docs.genieacs.com/en/latest/>

## 安装

### 安装nodejs

```

sudo apt-get install nodejs
node -v
    
```

### 安装MongoDB

安装教程: <https://docs.mongoinc.com/install-mongodb>

ubuntu server上安装: <https://www.mongodb.com/docs/v4.2/tutorial/install-mongodb-on-ubuntu/>

1. Import the public key used by the package management system.

```

sudo apt-get install gnupg
# import the MongoDB public GPG Key from https://pgp.mongodb.com/server-4.2.asc
curl -fsSL https://pgp.mongodb.com/server-4.2.asc | \
    sudo gpg -o /usr/share/keyrings/mongodb-server-4.2.gpg \
    --dearmor
    
```

2. Create a list file for MongoDB.

```

# for ubuntu 18.04
echo "deb [ arch=amd64,arm64 signed-by=/usr/share/keyrings/mongodb-server-4.2.gpg ] https://repo.mongodb.org/apt/ubuntu"
    
```

3. Reload local package database.

```

sudo apt-get update
    
```

#### 4. Install the MongoDB packages.

```
sudo apt-get install -y mongodb-org
```

### 跑起MongoDB

By default, MongoDB runs using the mongodb user account. If you change the user that runs the MongoDB process, you must also modify the permission to the data and log directories to give this user access to these directories.

- 目录: /var/lib/mongodb, /var/log/mongodb
- 配置: /etc/mongod.conf

### Start MongoDB

```
sudo systemctl start mongod
sudo systemctl status mongod
sudo systemctl enable mongod #You can optionally ensure that MongoDB will start following a system reboot by issuing
```

### Stop MongoDB

```
sudo systemctl stop mongod
```

### Restart MongoDB

```
sudo systemctl restart mongod
# You can follow the state of the process for errors or important messages by watching the output in the /var/log/m
```

### 卸载MongoDB

```
#这里不要卸载
sudo service mongod stop
sudo apt-get purge mongodb-org*
sudo rm -r /var/log/mongodb
sudo rm -r /var/lib/mongodb
```

## 安装GenieACS

### 从NPM安装

```
sudo npm install -g genieacs@1.2.11
```

### 配置systemd及配置文件:

```
# 添加用户
sudo useradd --system --no-create-home --user-group genieacs
# 创建相应文件夹
sudo mkdir /opt/genieacs
sudo mkdir /opt/genieacs/ext
sudo chown genieacs:genieacs /opt/genieacs/ext
# 创建env文件
```

```
sudo vi /opt/genieacs/genieacs.env
```

```
# 写下内容:
```

```
GENIEACS_CWMP_ACCESS_LOG_FILE=/var/log/genieacs/genieacs-cwmp-access.log
GENIEACS_NBI_ACCESS_LOG_FILE=/var/log/genieacs/genieacs-nbi-access.log
GENIEACS_FS_ACCESS_LOG_FILE=/var/log/genieacs/genieacs-fs-access.log
GENIEACS_UI_ACCESS_LOG_FILE=/var/log/genieacs/genieacs-ui-access.log
GENIEACS_DEBUG_FILE=/var/log/genieacs/genieacs-debug.yaml
NODE_OPTIONS=--enable-source-maps
GENIEACS_EXT_DIR=/opt/genieacs/ext
```

```
# Generate a secure JWT secret and append to /opt/genieacs/genieacs.env
```

```
sudo chmod 777 /opt/genieacs/genieacs.env
```

```
node -e "console.log(\"GENIEACS_UI_JWT_SECRET=\" + require('crypto').randomBytes(128).toString('hex'))" >> /opt/genieacs/genieacs.env
```

```
# 更改权限
```

```
sudo chown genieacs:genieacs /opt/genieacs/genieacs.env
```

```
sudo chmod 600 /opt/genieacs/genieacs.env
```

## 创建log文件夹

```
sudo mkdir /var/log/genieacs
```

```
sudo chown genieacs:genieacs /var/log/genieacs
```

## 创建systemd单元文件

### 1. 创建 genieacs-cwmp 服务

```
sudo systemctl edit --force --full genieacs-cwmp
# 写入以下配置
[Unit]
Description=GenieACS CWMP
After=network.target

[Service]
User=genieacs
EnvironmentFile=/opt/genieacs/genieacs.env
ExecStart=/usr/bin/genieacs-cwmp

[Install]
WantedBy=default.target
```

### 2. 创建 genieacs-nbi 服务

```
sudo systemctl edit --force --full genieacs-nbi
# 写入
[Unit]
Description=GenieACS NBI
After=network.target

[Service]
User=genieacs
EnvironmentFile=/opt/genieacs/genieacs.env
ExecStart=/usr/bin/genieacs-nbi

[Install]
WantedBy=default.target
```

### 3. 创建 genieacs-fs 服务

```
sudo systemctl edit --force --full genieacs-fs
# 写入
[Unit]
Description=GenieACS FS
After=network.target

[Service]
User=genieacs
EnvironmentFile=/opt/genieacs/genieacs.env
ExecStart=/usr/bin/genieacs-fs

[Install]
WantedBy=default.target
```

### 4. 创建 genieacs-ui 服务

```
sudo systemctl edit --force --full genieacs-ui
# 写入
[Unit]
Description=GenieACS UI
After=network.target

[Service]
User=genieacs
EnvironmentFile=/opt/genieacs/genieacs.env
ExecStart=/usr/bin/genieacs-ui

[Install]
WantedBy=default.target
```

### 5. Configure log file rotation using logrotate

```
sudo vi /etc/logrotate.d/genieacs
# 写入
/var/log/genieacs/*.log /var/log/genieacs/*.yaml {
    daily
    rotate 30
    compress
    delaycompress
    dateext
}
```

### 6. 创建软链接

```
sudo ln -s /usr/local/lib/nodejs/node-v18.16.0-linux-x64/bin/genieacs-ui /usr/bin/genieacs-ui
sudo ln -s /usr/local/lib/nodejs/node-v18.16.0-linux-x64/bin/genieacs-cwmp /usr/bin/genieacs-cwmp
sudo ln -s /usr/local/lib/nodejs/node-v18.16.0-linux-x64/bin/genieacs-fs /usr/bin/genieacs-fs
sudo ln -s /usr/local/lib/nodejs/node-v18.16.0-linux-x64/bin/genieacs-nbi /usr/bin/genieacs-nbi
```

## 7. 跑起这4个服务

```
sudo systemctl enable genieacs-cwmp
sudo systemctl start genieacs-cwmp
sudo systemctl status genieacs-cwmp

sudo systemctl enable genieacs-nbi
sudo systemctl start genieacs-nbi
sudo systemctl status genieacs-nbi

sudo systemctl enable genieacs-fs
sudo systemctl start genieacs-fs
sudo systemctl status genieacs-fs

sudo systemctl enable genieacs-ui
sudo systemctl start genieacs-ui
sudo systemctl status genieacs-ui
```

## 环境变量

官网：<https://docs.genieacs.com/en/latest/environment-variables.html>

配置各种环境变量。

## Web UI访问

网址：<http://192.168.10.16:3000/>

账号密码：admin

无标签