

# GenieACS

- 
- 
- GenieACS
  - GenieACS
  - GenieACS
- GenieACS

SNR-CPE telegram		SNR-CPE Config Google Play	SNR-CPE telegram
 @SNR_CPE_CHAT			 @SNR_CPE

GenieACS - TR-069.



GenieACS Node.js v12.13 MongoDB v3.6

## GenieACS

### GenieACS



GenieACS, , Node.js, MongoDB NPM

1. GenieACS NPM.

```
sudo npm install -g genieacs@1.2.5
```

2. GenieACS.

```
sudo useradd --system --no-create-home --user-group genieacs
```

3. , . /opt/genieacs/ext/ ( ).

```
mkdir /opt/genieacs
mkdir /opt/genieacs/ext
chown genieacs:genieacs /opt/genieacs/ext
```

4. /opt/genieacs/genieacs.env , GenieACS . . . . .

```
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
GENIEACS_UI_JWT_SECRET=secret
```

5. . . . .

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

6. . . . .

```
mkdir /var/log/genieacs
chown genieacs:genieacs /var/log/genieacs
```

7. systemd GenieACS. , EnvironmentFile . . . . .  
8. , genieacs-cwmp . . . . .

```
sudo systemctl edit --force --full genieacs-cwmp
```

9. . . . .

```
[Unit]
Description=GenieACS CWMP
After=network.target

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

[Install]
WantedBy=default.target
```

10. , genieacs-nbi . . . . .

```
sudo systemctl edit --force --full genieacs-nbi
```

11. . . . .

```
[Unit]
Description=GenieACS NBI
After=network.target

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

[Install]
WantedBy=default.target
```

12. , genieacs-fs .

```
sudo systemctl edit --force --full genieacs-fs
```

13. .

```
[Unit]
Description=GenieACS FS
After=network.target

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

[Install]
WantedBy=default.target
```

14. , genieacs-ui .

```
sudo systemctl edit --force --full genieacs-ui
```

15. .

```
[Unit]
Description=GenieACS UI
After=network.target

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

[Install]
```

16. logrotate.

/etc/logrotate.d/genieacs . . .

```
/var/log/genieacs/*.log /var/log/genieacs/*.yaml {
    daily
    rotate 30
    compress
    delaycompress
    dateext
}
```

17. , .

```

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

```

## GenieACS

**Node.js ( curl npm ) MongoDB.**



Ubuntu 20.04 LTS.

acs.sh

```
sudo chmod +x acs.sh
```

```

#!/bin/sh
#logs
genieacs_setup_errors=/var/log/genieacs_setup_errors
genieacs_setup_status=/var/log/genieacs_setup_status
exec 2>$genieacs_setup_errors
#
#
#
#
apt update
#
### Install curl ####
apt install -y curl
#
## Install NodeJS ####
cd ~
curl -sL https://deb.nodesource.com/setup_20.x -o nodesource_setup.sh
chmod +x nodesource_setup.sh
bash nodesource_setup.sh
apt install -y nodejs
apt install -y npm --global
#
### Install libssl1.1 ####
echo "deb http://security.ubuntu.com/ubuntu focal-security main" | sudo tee /etc/apt/sources.list.d
/focal-security.list
apt update
apt install -y libssl1.1
#
### Install MongoDB actual version for ubuntu 20.04 ####
apt install -y gnupg
curl -fsSL https://www.mongodb.org/static/pgp/server-7.0.asc | \
sudo gpg -o /usr/share/keyrings/mongodb-server-7.0.gpg \
--dearmor
echo "deb [ arch=amd64,arm64 signed-by=/usr/share/keyrings/mongodb-server-7.0.gpg ] https://repo.mongodb.
org/apt/ubuntu focal/mongodb-org/7.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-7.0.list

```

```

## for ubuntu 22.04 ##
#echo "deb [ arch=amd64,arm64 signed-by=/usr/share/keyrings/mongodb-server-7.0.gpg ] https://repo.mongodb.org/apt/ubuntu jammy/mongodb-org/7.0 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-7.0.list
## for actual version for ubuntu 20.04 ##
apt-get update
apt install -y mongodb-org
#if you want install specific release
#apt install -y mongodb-org=7.0.6 mongodb-org-database=7.0.6 mongodb-org-server=7.0.6 mongodb-mongosh=7.0.6 mongodb-org-mongos=7.0.6 mongodb-org-tools=7.0.6 #(for release 7.0.6)
systemctl start mongod.service
systemctl enable mongod
#
#
#
#
### Install GenieACS ####
npm install -g genieacs@1.2.5
sudo useradd --system --no-create-home --user-group genieacs
mkdir /opt/genieacs
mkdir /opt/genieacs/ext
chown genieacs:genieacs /opt/genieacs/ext
cd /opt/genieacs && touch genieacs.env
echo '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
GENIEACS_UI_JWT_SECRET=secret' | tee -a /opt/genieacs/genieacs.env
sudo chown genieacs:genieacs /opt/genieacs/genieacs.env
sudo chmod 600 /opt/genieacs/genieacs.env
mkdir /var/log/genieacs
chown genieacs:genieacs /var/log/genieacs
cd /etc/systemd/system
touch genieacs-cwmp.service
touch genieacs-nbi.service
touch genieacs-fs.service
touch genieacs-ui.service
echo '[Unit]
Description=GenieACS CWMP
After=network.target

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

[Install]
WantedBy=default.target' | sudo tee -a /etc/systemd/system/genieacs-cwmp.service

echo '[Unit]
Description=GenieACS NBI
After=network.target

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

[Install]
WantedBy=default.target' | sudo tee -a /etc/systemd/system/genieacs-nbi.service

echo '[Unit]
Description=GenieACS FS
After=network.target

[Service]
User=genieacs
EnvironmentFile=/opt/genieacs/genieacs.env

```

```

ExecStart=/usr/bin/genieacs-fs

[Install]
WantedBy=default.target' | sudo tee -a /etc/systemd/system/genieacs-fs.service

echo '[Unit]
Description=GenieACS UI
After=network.target

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

[Install]
WantedBy=default.target' | sudo tee -a /etc/systemd/system/genieacs-ui.service

cd /etc/logrotate.d
touch genieacs
echo '/var/log/genieacs/*.log /var/log/genieacs/*.yaml {
    daily
    rotate 30
    compress
    delaycompress
    dateext
}' | sudo tee -a /etc/logrotate.d/genieacs
systemctl daemon-reload
systemctl enable genieacs-cwmp
systemctl start genieacs-cwmp
systemctl enable genieacs-nbi
systemctl start genieacs-nbi
systemctl enable genieacs-fs
systemctl start genieacs-fs
systemctl enable genieacs-ui
systemctl start genieacs-ui
#check
echo 'version nodejs' && nodejs -v | tee $genieacs_setup_status
systemctl -l --no-pager status mongod | tee -a $genieacs_setup_status
mongo --eval 'db.runCommand({ connectionStatus: 1 })' | tee -a $genieacs_setup_status
systemctl -l --no-pager status genieacs-cwmp genieacs-nbi genieacs-fs genieacs-ui | tee -a
$genieacs_setup_status

```

```
sudo ./acs.sh
```

, ( 3-5 ). **GenieACS**

**Node.js MongoDB, GenieACS.**

```

Node.js version: v20.11.1
Unit mongodb.service could not be found.
MongoDB shell version v3.6.8
connecting to: mongodb://127.0.0.1:27017
Implicit session: session { "id" : UUID("65e49a2e-fd41-41c4-b9fa-6317448f7cb2") }
MongoDB server version: 7.0.6
WARNING: shell and server versions do not match
{
    "authInfo" : {
        "authenticatedUsers" : [ ],
        "authenticatedUserRoles" : [ ]
    },
    "ok" : 1
}
● genieacs-cwmp.service - GenieACS CWMP
   Loaded: loaded (/etc/systemd/system/genieacs-cwmp.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-03-13 15:07:19 +05; 5min ago
     Main PID: 6359 (node)
       Tasks: 33 (limit: 4599)
      Memory: 55.7M
     CGroup: /system.slice/genieacs-cwmp.service
             ├─6359 node /usr/bin/genieacs-cwmp
             ├─6389 /usr/bin/node /usr/bin/genieacs-cwmp
             └─6390 /usr/bin/node /usr/bin/genieacs-cwmp

map 13 15:07:19 admin123-VirtualBox systemd[1]: Started GenieACS CWMP.
map 13 15:07:19 admin123-VirtualBox genieacs-cwmp[6359]: 2024-03-13T10:07:19.271Z [INFO] genieacs-cwmp starting; pid=6359 version="1.2.5+20210312233623"
map 13 15:07:19 admin123-VirtualBox genieacs-cwmp[6359]: 2024-03-13T10:07:19.578Z [INFO] Worker listening; pid=6389 address="0.0.0.0" port=7547
map 13 15:07:19 admin123-VirtualBox genieacs-cwmp[6359]: 2024-03-13T10:07:19.594Z [INFO] Worker listening; pid=6390 address="0.0.0.0" port=7547
● ● genieacs-nbi.service - GenieACS NBI
   Loaded: loaded (/etc/systemd/system/genieacs-nbi.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-03-13 15:07:19 +05; 5min ago
     Main PID: 6409 (node)
       Tasks: 33 (limit: 4599)
      Memory: 50.3M
     CGroup: /system.slice/genieacs-nbi.service
             ├─6409 node /usr/bin/genieacs-nbi
             ├─6471 /usr/bin/node /usr/bin/genieacs-nbi
             └─6472 /usr/bin/node /usr/bin/genieacs-nbi

map 13 15:07:19 admin123-VirtualBox systemd[1]: Started GenieACS NBI.
map 13 15:07:19 admin123-VirtualBox genieacs-nbi[6409]: 2024-03-13T10:07:19.832Z [INFO] genieacs-nbi starting; pid=6409 version="1.2.5+20210312233623"
map 13 15:07:20 admin123-VirtualBox genieacs-nbi[6409]: 2024-03-13T10:07:20.301Z [INFO] Worker listening; pid=6471 address="0.0.0.0" port=7557
map 13 15:07:20 admin123-VirtualBox genieacs-nbi[6409]: 2024-03-13T10:07:20.343Z [INFO] Worker listening; pid=6472 address="0.0.0.0" port=7557
● ● genieacs-fs.service - GenieACS FS
   Loaded: loaded (/etc/systemd/system/genieacs-fs.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-03-13 15:07:19 +05; 5min ago
     Main PID: 6441 (node)
       Tasks: 33 (limit: 4599)
      Memory: 48.2M
     CGroup: /system.slice/genieacs-fs.service
             ├─6441 node /usr/bin/genieacs-fs
             ├─6513 /usr/bin/node /usr/bin/genieacs-fs
             └─6514 /usr/bin/node /usr/bin/genieacs-fs

map 13 15:07:19 admin123-VirtualBox systemd[1]: Started GenieACS FS.
map 13 15:07:20 admin123-VirtualBox genieacs-fs[6441]: 2024-03-13T10:07:20.218Z [INFO] genieacs-fs starting; pid=6441 version="1.2.5+20210312233623"
map 13 15:07:20 admin123-VirtualBox genieacs-fs[6441]: 2024-03-13T10:07:20.650Z [INFO] Worker listening; pid=6513 address="0.0.0.0" port=7567
map 13 15:07:20 admin123-VirtualBox genieacs-fs[6441]: 2024-03-13T10:07:20.667Z [INFO] Worker listening; pid=6514 address="0.0.0.0" port=7567
● ● genieacs-ui.service - GenieACS UI
   Loaded: loaded (/etc/systemd/system/genieacs-ui.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-03-13 15:07:19 +05; 5min ago
     Main PID: 6497 (node)
       Tasks: 33 (limit: 4599)
      Memory: 63.9M
     CGroup: /system.slice/genieacs-ui.service
             ├─6497 node /usr/bin/genieacs-ui
             ├─6535 /usr/bin/node /usr/bin/genieacs-ui
             └─6538 /usr/bin/node /usr/bin/genieacs-ui

map 13 15:07:19 admin123-VirtualBox systemd[1]: Started GenieACS UI.
map 13 15:07:20 admin123-VirtualBox genieacs-ui[6497]: 2024-03-13T10:07:20.313Z [INFO] genieacs-ui starting; pid=6497 version="1.2.5+20210312233623"
map 13 15:07:20 admin123-VirtualBox genieacs-ui[6497]: 2024-03-13T10:07:20.897Z [INFO] Worker listening; pid=6538 address="0.0.0.0" port=3000
map 13 15:07:20 admin123-VirtualBox genieacs-ui[6497]: 2024-03-13T10:07:20.904Z [INFO] Worker listening; pid=6535 address="0.0.0.0" port=3000

```

,

-:

/var/log/genieacs\_setup\_errors - , . , .

/var/log/genieacs\_setup\_status - Node.js, MongoDB, GenieACS.

## GenieACS

Web- 127.0.0.1:3000. ABRACADABRA, Log in - admin/admin.

The screenshot shows a Firefox browser window with the URL [127.0.0.1:3000/#/wizard](http://127.0.0.1:3000/#/wizard). The page title is "Initialization wizard". It features the genieacs logo and version v1.2.5+20210312233623. A "Log in" link is in the top right. The main content area is titled "Initialization wizard" and contains a message: "This wizard will seed the database with a minimal initial configuration to serve as a starting point. Select what you want to initialize and click 'ABRACADABRA!'." Below this is a list of checked items: "Users, roles and permissions", "Presets and provisions", "Devices predefined search filters", "Device details page", "Devices listing page", and "Overview page". At the bottom is a yellow button labeled "ABRACADABRA!".

TR-69 (CWMP) CPE 7547. , IP- 192.168.1.210.

Адрес ACS

Devices GenieACS, SNR-CPE.

The screenshot shows a Firefox browser window with the URL [127.0.0.1:3000/#/devices](http://127.0.0.1:3000/#/devices). The page title is "Devices - GenieACS". It features the genieacs logo and version v1.2.5+20210312233623. A "Log out" link is in the top right. The main content area is titled "Listing devices". It includes a "Filter" section with columns: Serial number, Product class, Software version, IP, SSID, Last inform, and Tags. One item is listed: SNR-CPE-W4N2006007755, SNR-CPE, 1.8.4.1102211617, 169.254.89.71, SNR-CPE-A825, 4/16/2021, 7:57:54 AM, Online now. At the bottom are buttons for Reboot, Reset, Push file, Delete, Tag, and Untag.

SNR-CPE Devices.

F8F082-SNR%2DCPE-SN

Queued: 10 Pending: 0 Fault: 0 Stale: 11

admin Log ou

**genieacs** v1.2.5+20210312233623

Overview Devices Faults Admin

**Manufacturer** NAG  
**Hardware version** SNR-CPE-W4N  
**Software version** 1.8.4.1102211617  
**MAC** F8:F0:82:A8:A8:25  
**IP** 169.254.89.71  
**WLAN SSID** SNR-CPE-A825  
**WLAN passphrase** KkwZd5NnUy3W

**WLAN hosts**

Host name	IP address	MAC address
blank	192.168.1.87	08:97:98:df:cb:f6
blank	192.168.1.210	08:00:27:ae:96:ae

**Faults**

Channel	Code	Message	Detail	Retries	Timestamp
task_607941869926680a2db840bd	session_terminated	The TR-069 session was unsuccessfully termina...	0		4/16/2021, 7:55:55 AM

**All parameters**

Parameter	Value	Unit	Description
InternetGatewayDevice.ManagementServer.ConnectionRequestPassword	ct5bkbbtt		Connection request password
InternetGatewayDevice.ManagementServer.ConnectionRequestURL	http://169.254.89.71:1008		Connection request URL
InternetGatewayDevice.ManagementServer.ConnectionRequestUsername	F8F082-SNR%2DCPE-SNR%2DCPE%2DW4N20060077...		Connection request username
InternetGatewayDevice.ManagementServer.ParameterKey	blank		Parameter key
InternetGatewayDevice.ManagementServer.Password			Management server password
InternetGatewayDevice.ManagementServer.PeriodicInformEnable	true		Periodic inform enable
InternetGatewayDevice.ManagementServer.PeriodicInformInterval	300		Periodic inform interval
InternetGatewayDevice.ManagementServer.PeriodicInformTime	60038966		Periodic inform time
InternetGatewayDevice.ManagementServer.URL	http://192.168.1.210:7547		Management server URL

Show Applications | Push file | Delete

: <https://genieacs.com/>