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Category	■FAQ □SOP	Related OS	N/A
Abstracta	How to launch Mosquitto broker on ECU-1051?		
Keyword	Mosquitto		
Related Product	ADAM-3600, ECU-1152, ECU-1251, ECU-1051		

■ **Problem Description:**

This document explains how to launch Mosquitto broker on ECU-1051.

Please note that only the image **with EdgeLink** content this process.

This document contents 3 parts:

1. The method of launching Mosquitto broker.
2. The method of modify the listening port number.
3. The method of modify the MQTT username/password.

More detail of the Mosquitto application please refer to the Mosquitto official website.

https://mosquitto.org/

■ **Answer:**

Part 1. The method of launching Mosquitto broker.

Step 1.   Go to the folder "/home/sysuser/util" and launch Mosquitto broker with the following command.

    # mosquitto -v


```
root@ecu1051:/home/sysuser/util# mosquitto -v
1631253727: mosquitto version 1.6.3 starting
1631253727: Using default config.
1631253727: Opening ipv4 listen socket on port 1883.
1631253727: Opening ipv6 listen socket on port 1883.
```

Part 2. The method of modify the listening port number.

Step 1.   Download "" file from the Mosquitto official website and do the following modifications marked in yellow.

```
192  # When run as root, drop privileges to this user and its primary
193  # group.
194  # Set to root to stay as root, but this is not recommended.
195  # If run as a non-root user, this setting has no effect.
196  # Note that on Windows this has no effect and so mosquitto should
197  # be started by the user you wish it to run as.
198  #user mosquitto
199  user nobody
```

The following example is let the broker listening on port 8883.

```
201  # ================================================================
202  # Default listener
203  # ================================================================
204
205  # IP address/hostname to bind the default listener to. If not
206  # given, the default listener will not be bound to a specific
207  # address and so will be accessible to all network interfaces.
208  # bind_address ip-address/host name
209  #bind_address
210
211  # Port to use for the default listener.
212  #port 1883
213  port 8883
```

Step 2.   Put this file under the folder of the ECU-1051 and modify the privilege.

Folder path: /home/sysuser/project

chmod +x /home/sysuser/project/mosquitto.conf

```
-sh: /home/sysuser/project/mosquitto.conf: Permission denied
root@ecu1051:/home/sysuser/util# chmod +x /home/sysuser/project/mosquitto.conf
root@ecu1051:/home/sysuser/util# ll
total 676
-rwxr-xr-x    1 sysuser  sysuser      31024 May 31 20:17 AdvFirmupdate
-rwxr-xr-x    1 sysuser  sysuser       7792 May 31 20:17 DataLoggerSDKTest
```

Step 3.   Run the following command to launch the Mosquitto broker.

mosquitto -c /home/sysuser/project/mosquitto.conf –v

```
10.0.0.1 - PuTTY                                           —  □  ✕
1631253128: mosquitto version 1.6.3 starting
1631253128: Config loaded from /home/sysuser/project/mosquitto.conf.
1631253128: Opening ipv4 listen socket on port 8883.
1631253128: Opening ipv6 listen socket on port 8883.
1631253128: Warning: Mosquitto should not be run as root/administrator.
^C1631253227: mosquitto version 1.6.3 terminating
root@ecu1051:/home/sysuser/util# mosquitto -c /home/sysuser/project/mosquitto.conf -v
1631253229: mosquitto version 1.6.3 starting
1631253229: Config loaded from /home/sysuser/project/mosquitto.conf.
1631253229: Opening ipv4 listen socket on port 8883.
1631253229: Opening ipv6 listen socket on port 8883.
1631253241: New connection from 10.0.0.101 on port 8883.
1631253241: New client connected from 10.0.0.101 as paho-19457989705300 (p2, c1, k60).
1631253241: No will message specified.
1631253241: Sending CONNACK to paho-19457989705300 (0, 0)
1631253244: Received PUBLISH from paho-19457989705300 (d0, q0, r0, m0, 'test', ... (3 bytes))
```

Part 3. The method of modify the MQTT username/password.

Please refer to the Mosquitto official website: https://mosquitto.org/man/mosquitto_passwd-1.html

The required tool (mosquitto_passwd.exe) is under the following folder of ECU-1051.

cd /home/sysuser/util/

```
root@ecu1051:~# cd /home/sysuser/util/
root@ecu1051:/home/sysuser/util# ls
AdvFirmupdate            diotest              nethogs
DataLoggerSDKTest        fixroute             netset
Iologger_read            gpiotest             nodeidtest
adb2db3                  gpssdk_demo          remountfs
advwtest                 ipcheck              smstest
batterytest              ledtest              udisk_backup.sh
dc_tag_monitor           mailtest             udisk_run.sh
dc_tag_owner             modemscan            updatetz.sh
dc_tag_read              mosquitto_passwd     watchburn
dc_tag_read_subscription mosquitto_pub        watchtest
dc_tag_update            mosquitto_rr         wdttest
dc_tag_write             mosquitto_sub
root@ecu1051:/home/sysuser/util#
```