**EWM FAQ**

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| **Category** | EWM | **Date** | 2020/05/05 |
| **Keyword** | LTE 4G network ,EWM-C163M201E,ppp mode,Linux OS, Cent OS 8 | | |

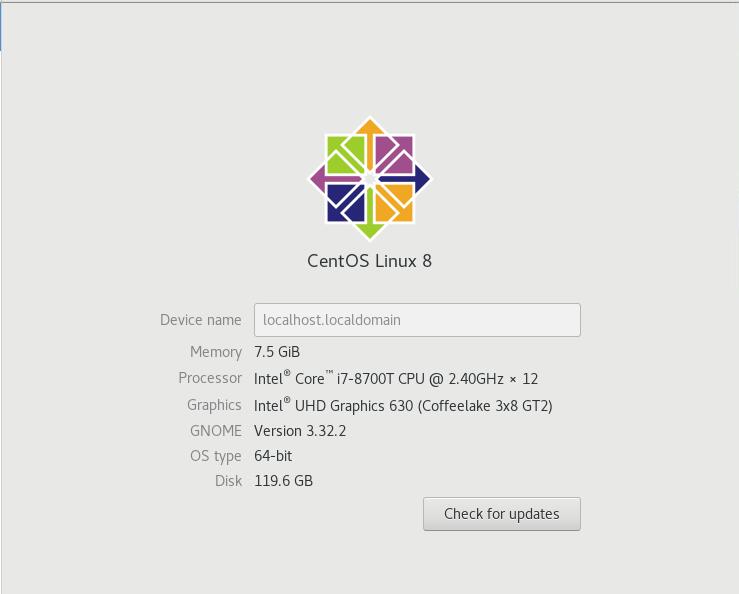
* **Question:**

How to establish 4G cellular network with EWM-C163M201E module on Cent OS?

* **Instructions :**

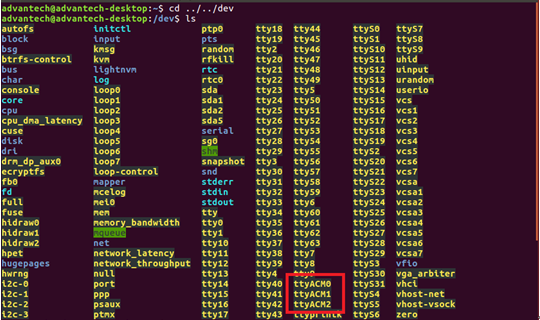
Step 1

Confirm your Cent OS version



Step 2

List all of files under specific “dev” folder and ensure the ACM ports has generated as below

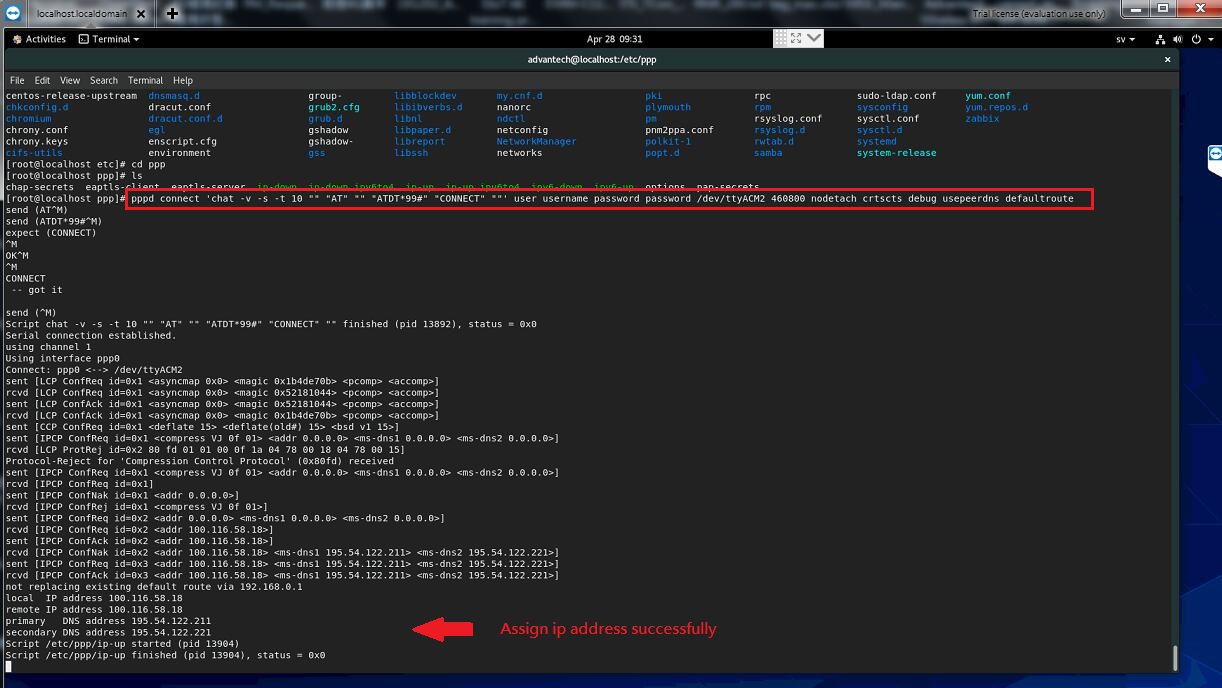


Step 3

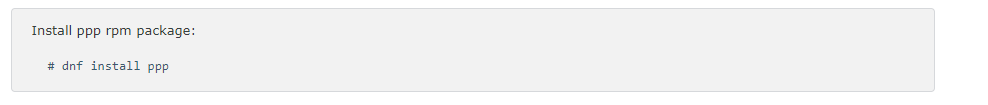
Try to establish your cellular connection by “pppd” command and input specific username/password from sim card if needs

**Command:**

**pppd connect 'chat -v -s -t 10 "" "AT" "" "ATDT\*99#" "CONNECT" ""' user username password password /dev/ttyACM2 460800 nodetach crtscts debug usepeerdns defaultroute**

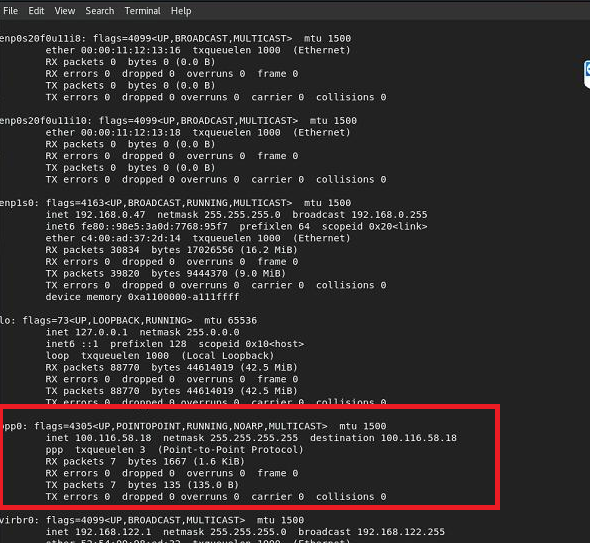


Note: if the ppp package is not installed on your system,please install it by following command.



Step 4

Confirm the ppp0 interface has generated on network section and do ping test

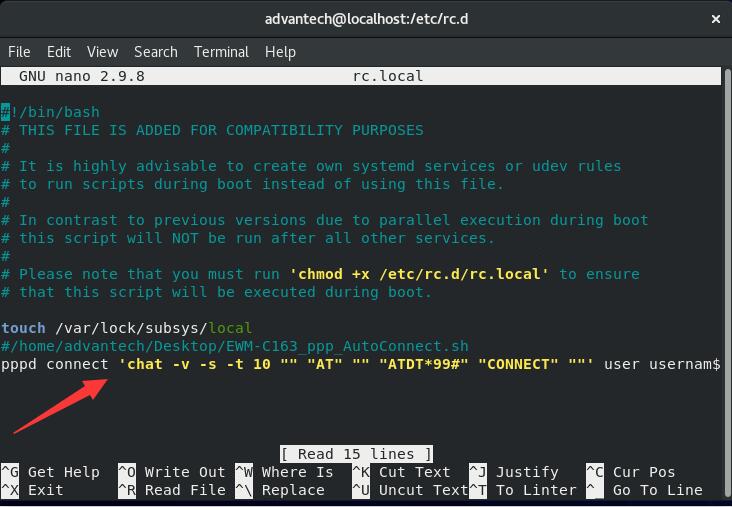


Step 5

Add pppd command to specific file path(etc/rc.d/rc.local) and save it

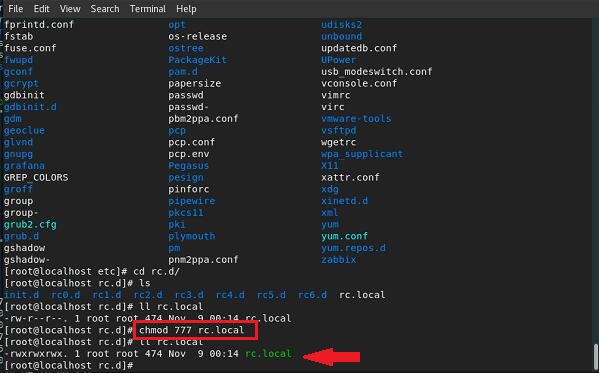
**Command:**

**pppd connect 'chat -v -s -t 10 "" "AT" "" "ATDT\*99#" "CONNECT" ""' user username password password /dev/ttyACM2 460800 nodetach crtscts debug usepeerdns defaultroute &**



Step 6

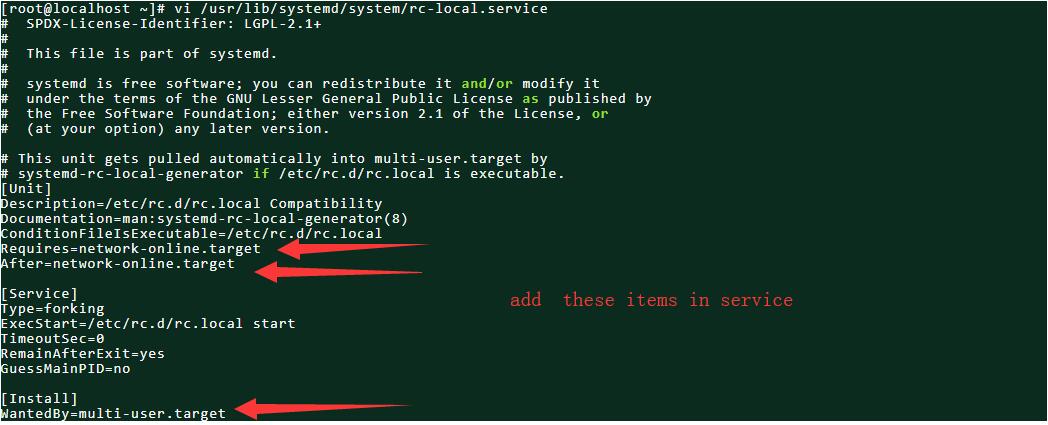
Modify the access permission of file (**chmod 777 rc.local**) to ensure the file can be executed at starts up



Step 7

Modify the “rc-local” service (usr/lib/system/system/rc-local.service) as below

* **[Unit]   
  Requires=network-online.target  
  After=network-online.target**
* **[Install]  
  WantedBy=multi-user.target**



Step 8

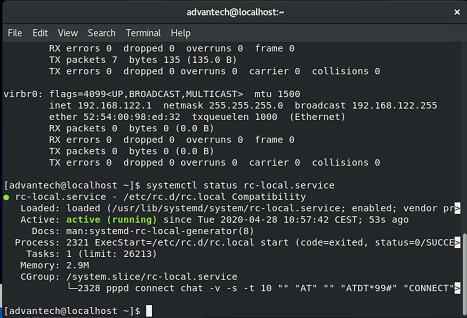
Change high access permission of rc-local service



Step 9

Confirm rc-local service if it enables or not by following command

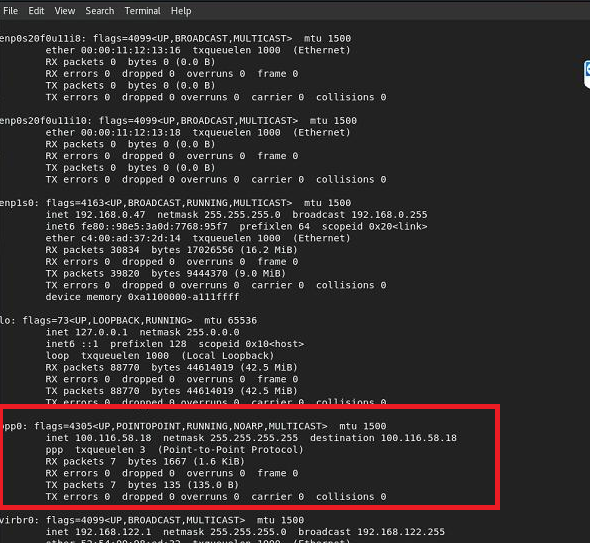
* **systemctl status rc-local.service**



**Note:if the status is not activated, please enter “systemctl enable rc-local.service” command and check again**

Step 10

Reboot the system and confirm if the ppp0 interface can be established automatically or not



**Note: if the connection cannot establish proper or unsuccessful, please cross check the status of “rc-local service” from STEP 9 or module status by AT commands below.**

<http://ess-wiki.advantech.com.tw/wiki/images/8/86/FAQ_EWM_How_to_do_troubleshooting_by_AT_commands_when_3G_4G_connection_is_not_workable_with_EWM-C109F601E_EWM-C117FL0XE_on_Linux_OS_4.docx>