Advantech AE Technical Share Document

Date	2019/9/25	SR#	1-3951079826
Category	■FAQ □SOP	Related OS	N/A
Abstract	How to recover ADAM-6700 module when node-red server crashed		
Keyword	ADAM-6700, Node-red server, Crashed, image update		
Related Product	ADAM-6717, ADAM-6750		

■ **Problem Description:**

When using Node-red to develop IoT application on ADAM-6700, sometimes we may crash the node-red server due to programming error. When node-red server crashed, we cannot enter the Web GUI page also the node-red editor page. User will see below screenshot and cannot to any further operation on the module. This document explains how to recover ADAM-6700 module when node-red crashed
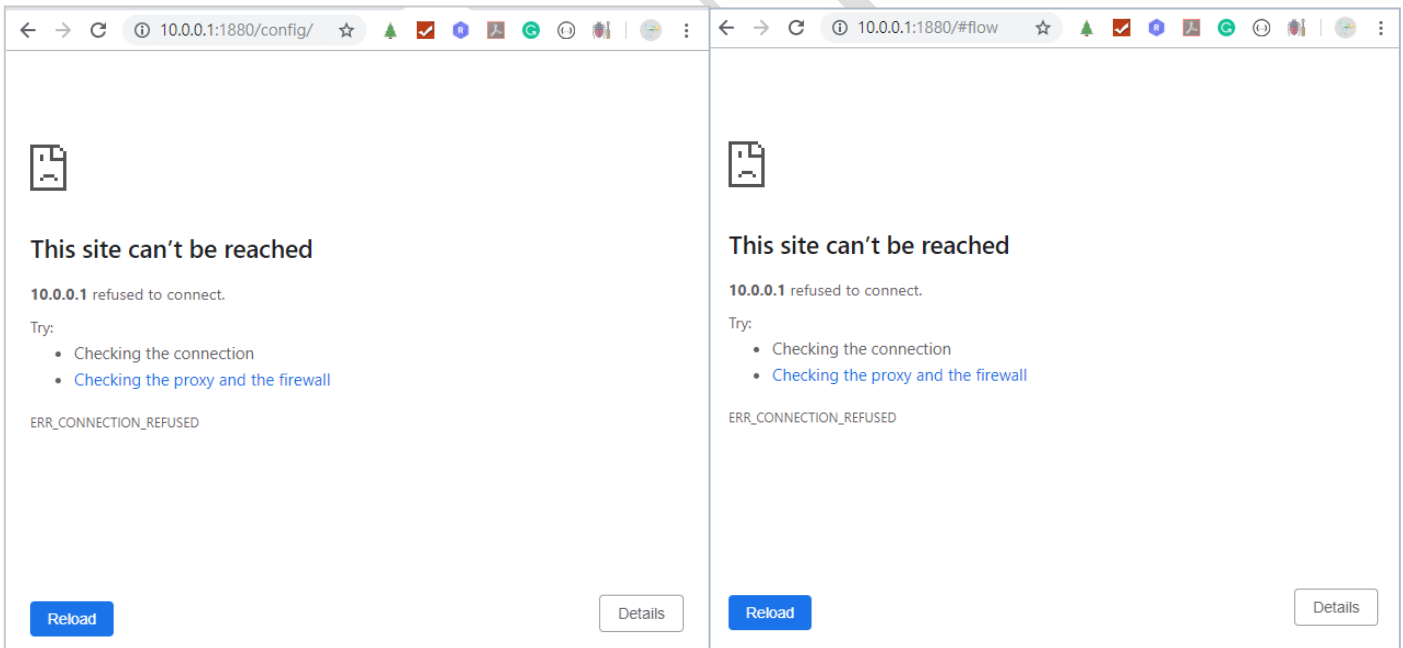

Fig.1 Cannot Enter WebGUI page due to node-red server crash

When node-red server crashed, you can follow below method to recover the node-red server. It depends on the severity of the system caused by this error.

1. Delete the error node-red flow, then restart the module by a power cycle.
2. Delete the error node-red flow, and delete node-red folder, reinstall the system by using SD card (update the image of ADAM-6700)

■ **Solution**:

1. **Delete the error node-red flow, and restart the module**

   Step1:

   Enter the ftp server of ADAM-6700, delete the flows_adam67c1.json and flows_adam67c1_cred.json, User can also backup these two files by rename the .json files. The default account/password of ftp server is root and no password.
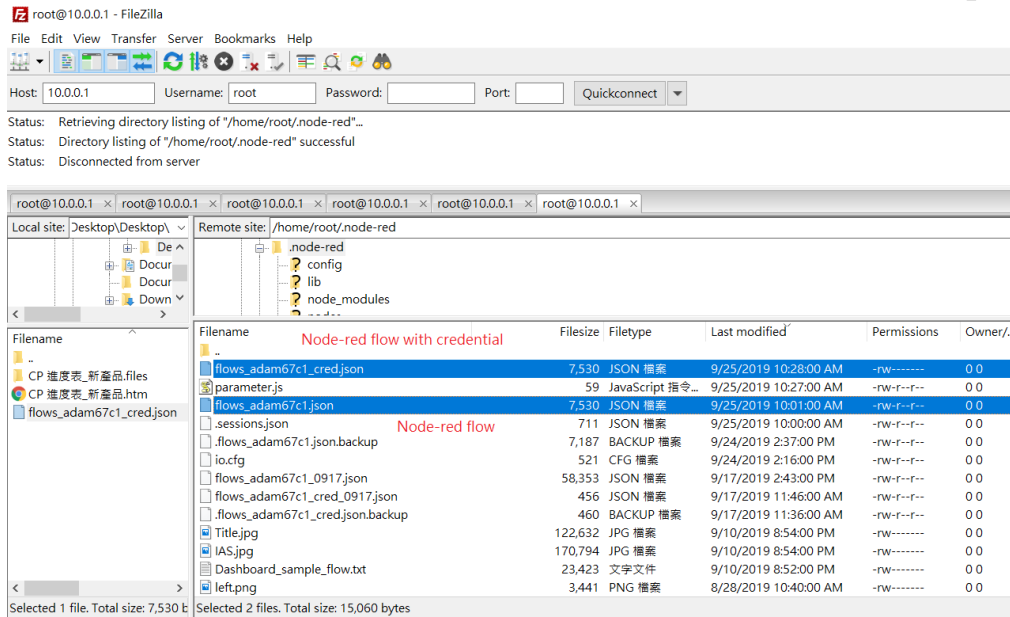
Fig.2 Delete the node-red flow in ADAM-6700

   Step2:

   Restart the module by a power cycle, after the system is ready, you can enter both Web GUI page and node-red editor page again as below screenshot.
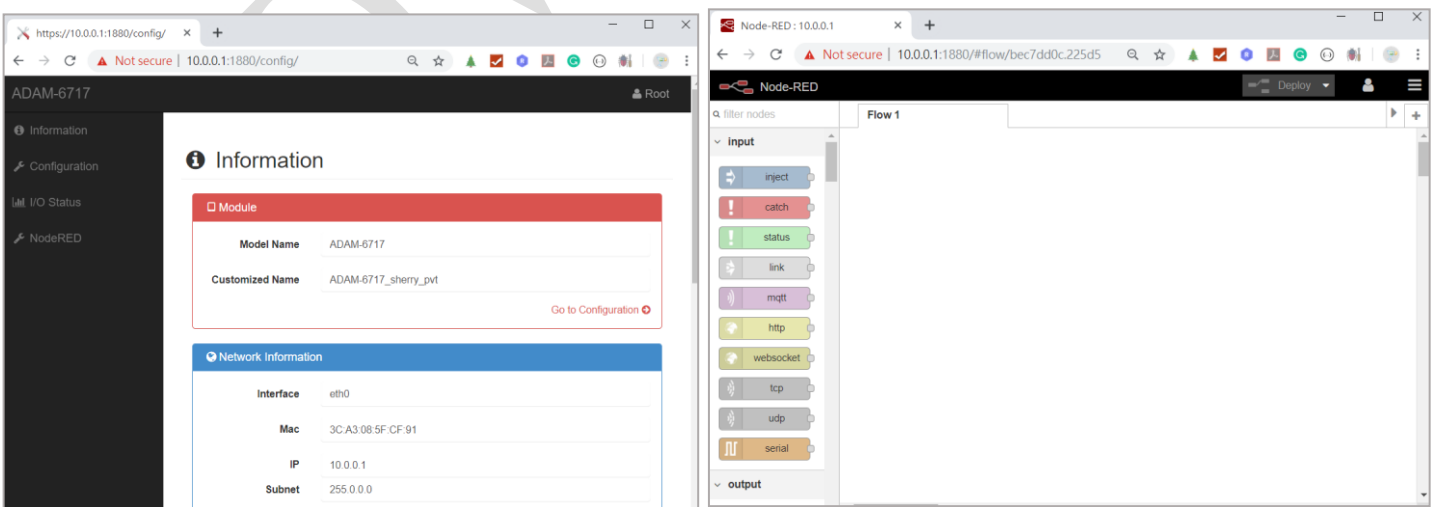
Fig.3 Both Web GUI and Node-red editor page already recovered

2. **Delete the error node-red flow, and delete node-red folder, reinstall the system by using SD card (update the image of ADAM-6700)**

Step1:

This is the same as the method mentioned above.

Enter the ftp server of ADAM-6700, delete the flows_adam67c1.json and flows_adam67c1_cred.json, User can also backup these two files by rename the .json files. The default account/password of ftp server is root and no password.
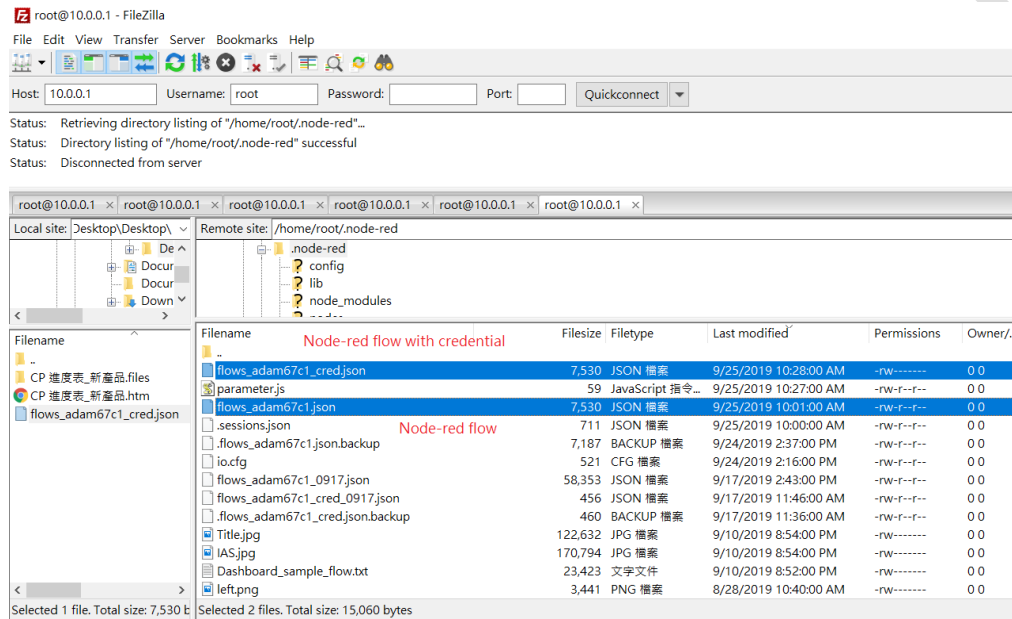

Fig.4 Delete the node-red flow in ADAM-6700

Step 2:

Go to /home/root/ directory, and delete the below two folders. This folder are the node-red application files.

node.js

.node-red

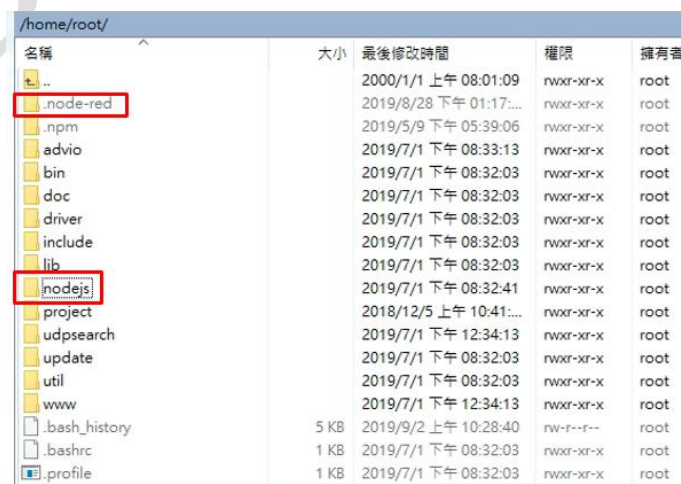
Fig.5 Delete the node-red application folders in ADAM-6700

Step 3:

Go to support portal to download the image file for ADAM-6700.

https://support.advantech.com/support/DownloadSRDetail_New.aspx?SR_ID=1-1TBZJL8&
Doc_Source=Download

ADAM-67C1_Kernal3.12.10_OS1.4.4R10190_NodeRED2.0.6_cus

Solution : This is the image file for ADAM-6700 series.

Download File	Released Date	Download Site	
ADAM-67C1_Kernal3.12.10_OS1.4.4R10190_NodeRED2.0.6_cus.zip	2019-09-25	Primary	Secondary

Step 4:

Unzip the file into microSD card.

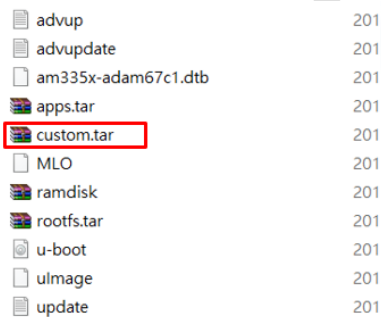The custom.tar.gz is where the node-red application software.

Fig.6 Image file in microSD card

Step 5:

Insert the micro SD card to ADAM-6700, power off then power on the module

If the status LED flash every 0.5s , it's under image recovering process. Wait the status LED
until it flash every 1s, it means the operation system is ready after image update.

Step 6:

You should be able to enter both WebGUI page also node-red edittor page as shown in
figure 3.

Note: the advupdate file in the microSD card will be deleted automatically after image
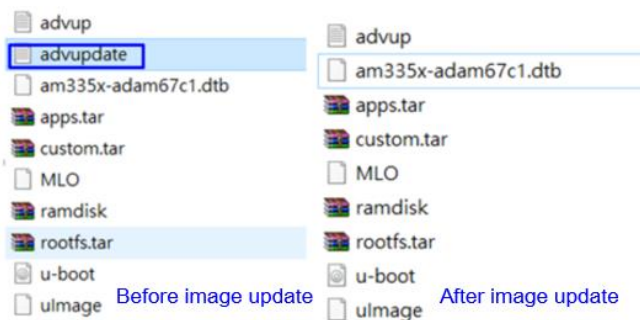update. So the microSD card can be used as the normal storage device.

Fig.7 The remain files in microSD card after image update