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Advantech AE Technical Share Document

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Category	■FAQ □SOP	Related OS	N/A
Abstract	How to find the root cause for node-red server crashed		
Keyword	ADAM-6700, Node-red server, Crashed, putty, WISE-2834		
Related Product	ADAM-6717, ADAM-6750, WISE-2834		

■ 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 the step for you to find out the possible root cause on your node-red flow

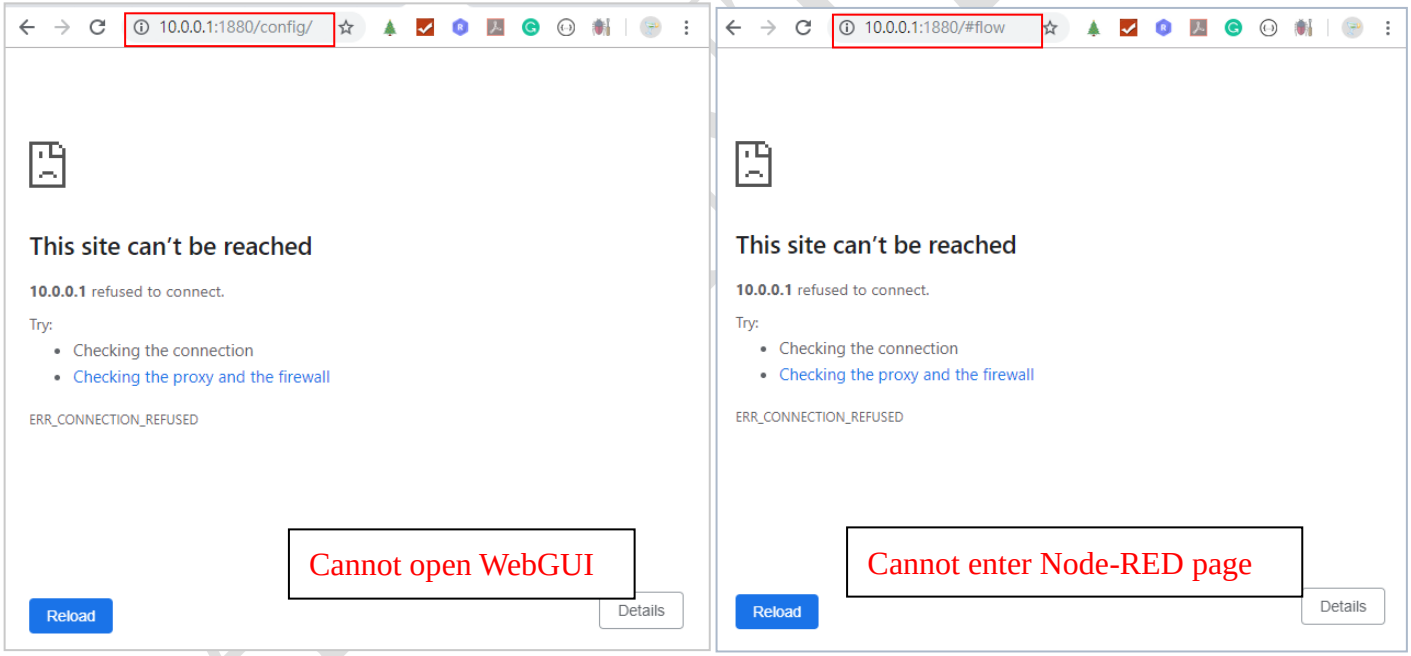

Fig.1 Cannot Enter WebGUI page due to node-red server crash

When node-red server crashed, if you wish to find the possible root cause, please follow below instruction.

Note: You can use the same method to solve the node-red crashed problem happened on WISE-2834.

■ Solution:

Step1:

Find the node-red process in SSH

Use putty to enter ADAM-6700 module, enter “ps” command to list out all the process

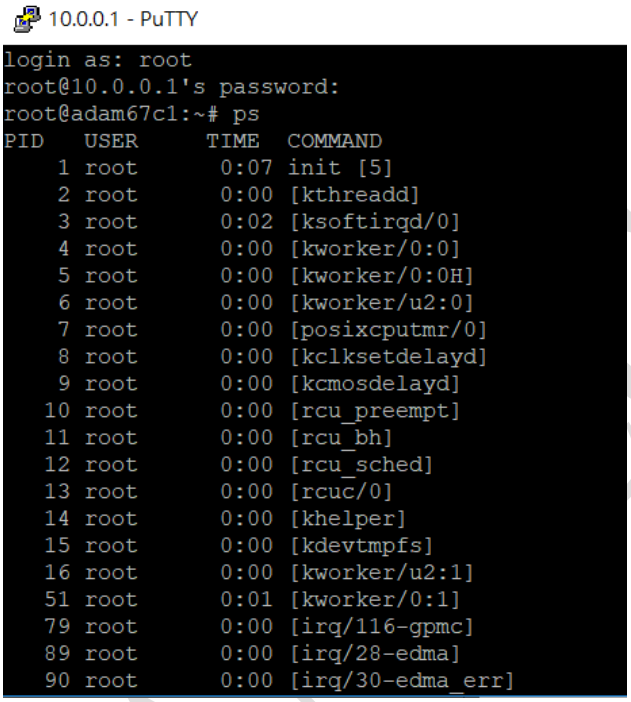

Fig.1 Enter ps command to list out all the process

Step2:

Kill the **chk.sh** process. Find the process ID via as shown in Figrue 2. User can use one of below command to kill the process.

>> Kill 2206

This is the process to make sure node-red application will keep running even the node-red process is being closed manually. The process will monitor whether node-red process is running or not, if not, it will execute the node-red process.

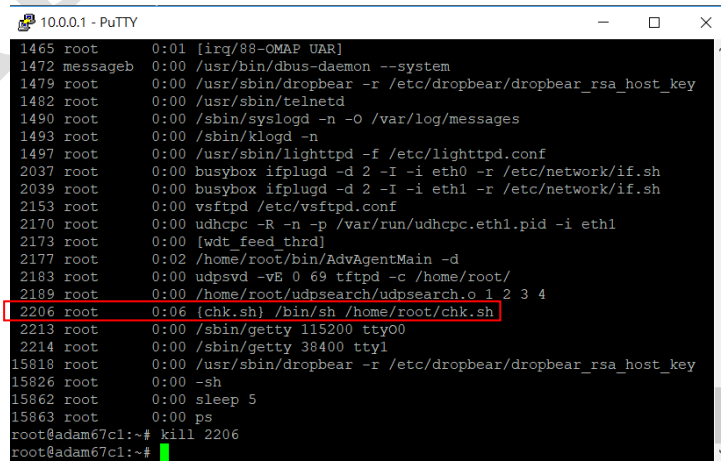

Fig.2 Kill chk.sh process

Step3:

Kill node-red process, you can achieve this action by below command.

>> sh k.sh

Step4:

Run node-red program manually by below command to see the error message show on SSH screen

>> node-red &

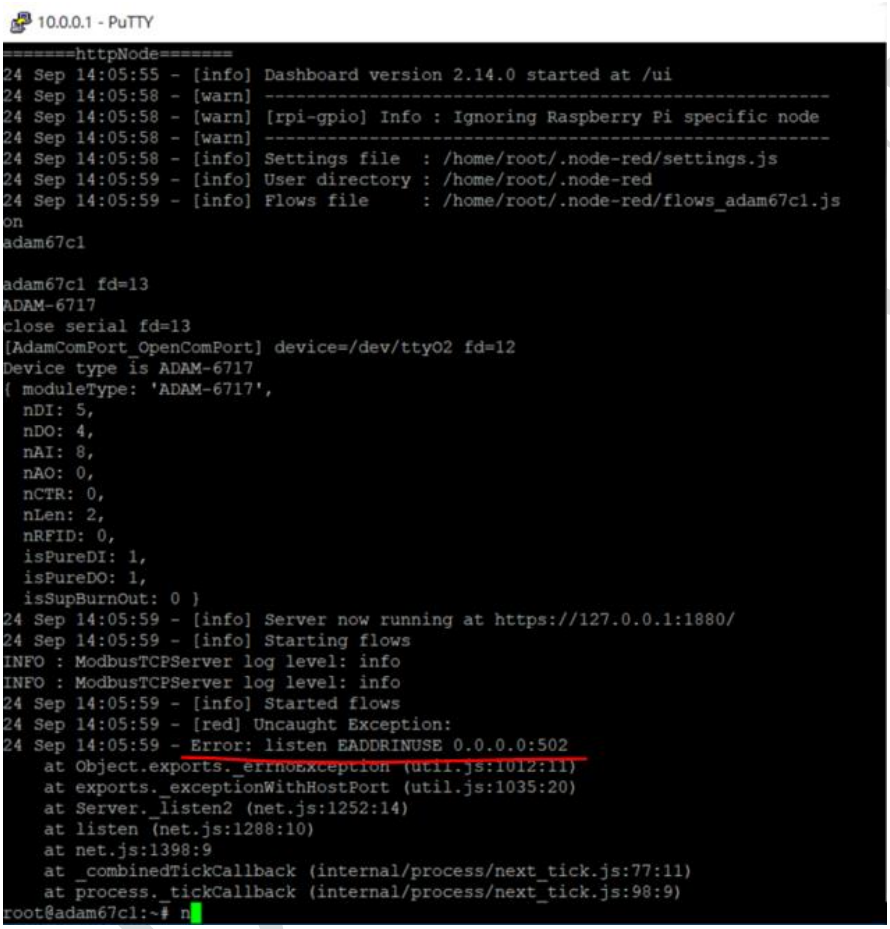

Fig.3 Error message in SSH console

In this example, the node-red flow use two modbus server node and are both running at port 502, which cause the node-red web server crashed.

Step 5:

Enter the ftp server of ADAM-6700, rename the flows_adam67c1.json and flows_adam67c1_cred.json for fixing the problem in node-red flow later.
The default account/password of ftp server is root and no password.

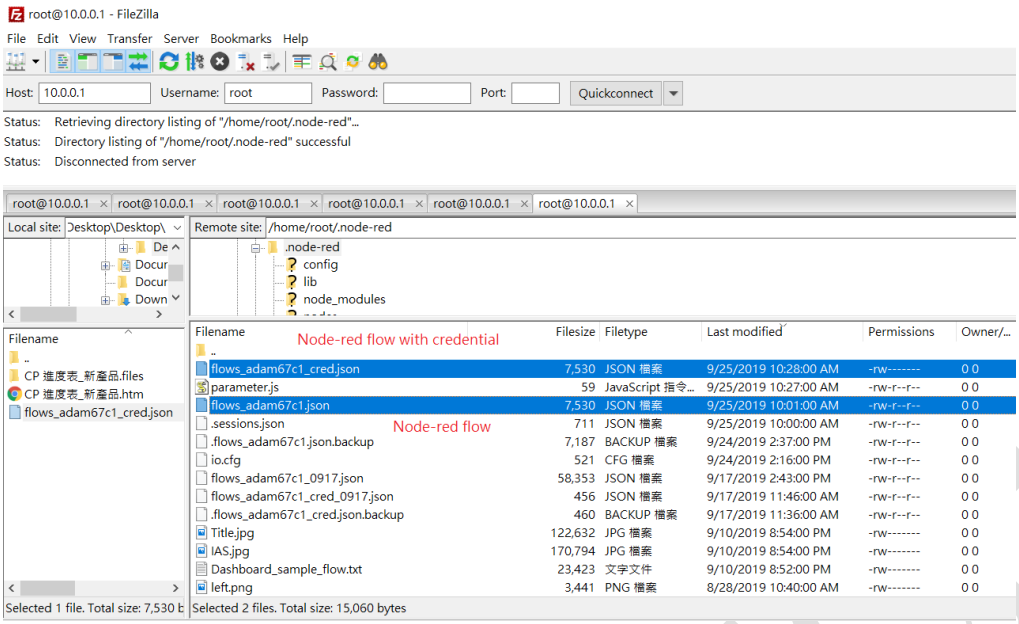

Fig.4 Rename the node-red flow in ADAM-6700

Step6:

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.

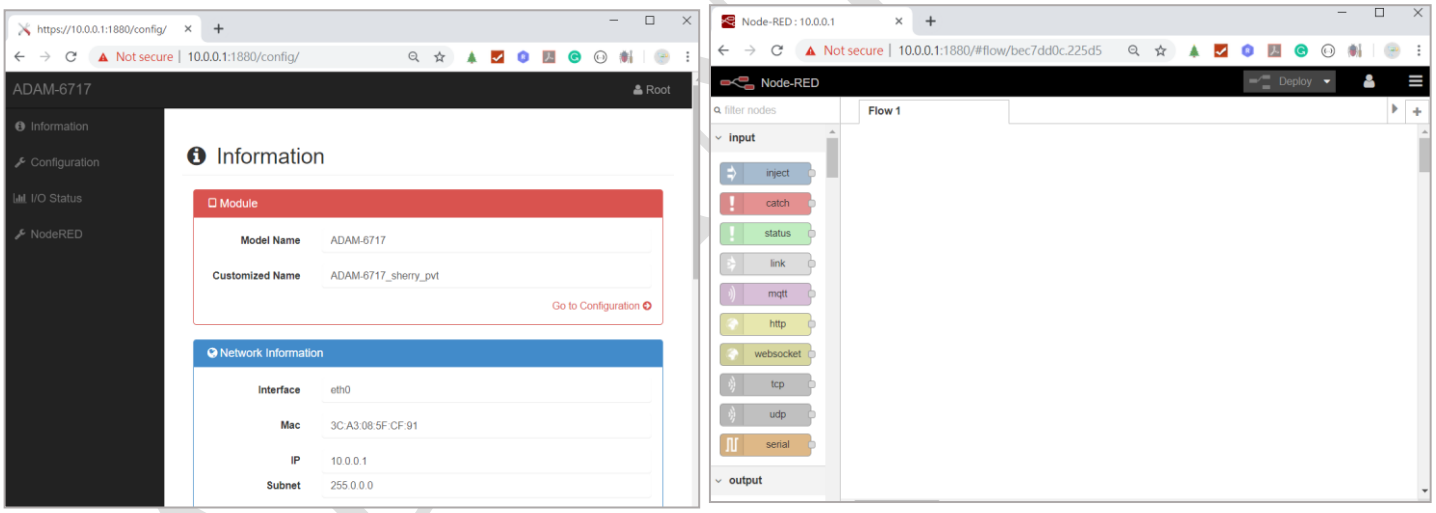

Fig.4 Both Web GUI and Node-red editor page already recovered

Step7:

Import the flows_adam67c1.json you just rename into node-red editor page, find the Modbus server node and change to different port number then click deploy to solve the programming error in node-red flow. Since the error already fixed, you can see the message show on debug column as below picture in Figure 5.

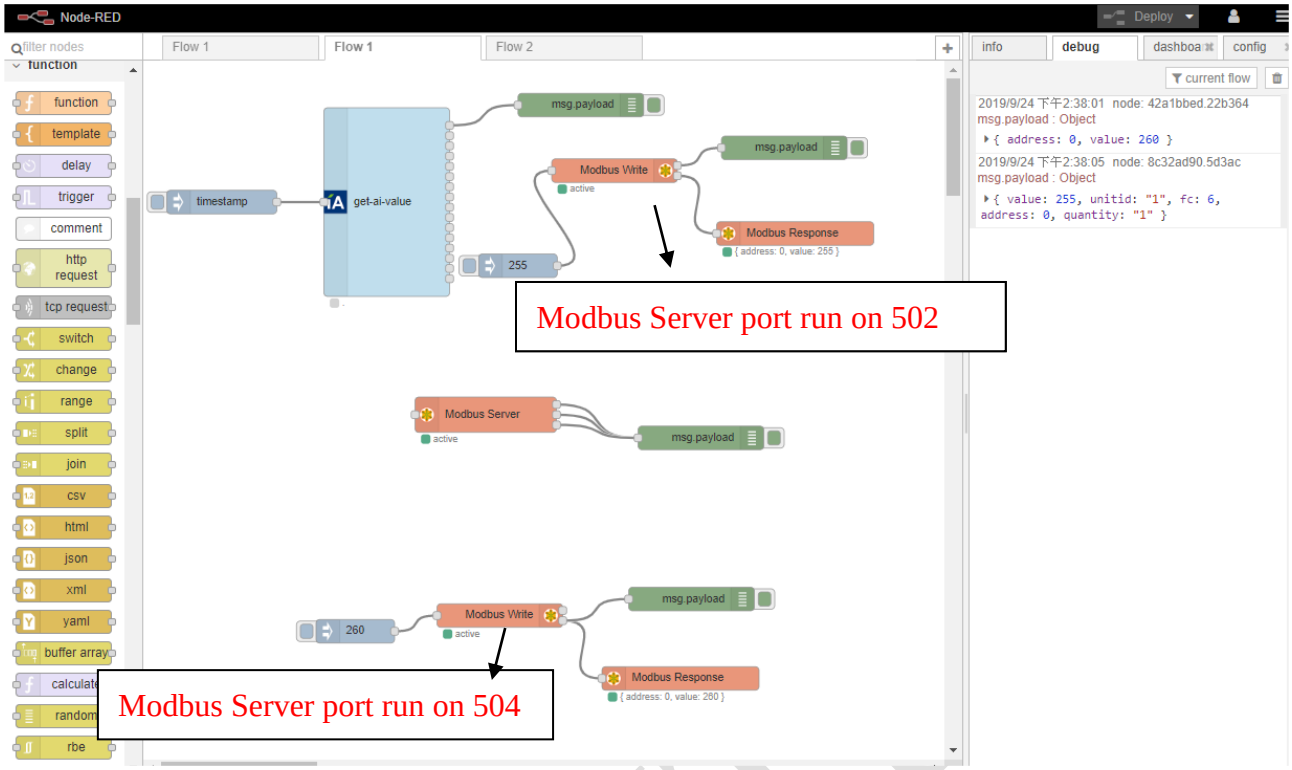

Fig.5 Fixed the duplicated Modbus server port number issue.

The flow can successfully running in node-red again.