BeagleBone
Troubleshooting Guide

Table of Contents

Remote Host Identification Has Changed

Q: When I try to SSH into my BeagleBone at the IP address 192.168.7.2/192.168.6.2, there is an error message: "**Remote Host Identification Has Changed**!".

A: Issue the following command. Replace <IP> with the IP address of your BeagleBone.

$ ssh-keygen –R <IP>

Try again. Now you will be able to SSH into your BeagleBone.

Default Root Password After Updating the Firmware

Q: What is the default password of the "root" account after updating the firmware?

A: **root**

Not Being Able to SSH into BeagleBone as a Root

Q: I cannot SSH into my BeagleBone as "root" after updating the firmware.

A: Step 1: Open /etc/ssh/sshd_config by issuing the following command

       $ vi /etc/ssh/sshd_config

Step 2: Change the following line:

       FROM:
       PermitRootLogin without-password

       TO:
       PermitRottLogin yes

Step 3: Save and close the file. Restart your SSH server:

       $ /etc/init.d/ssh restart

From now on you will be able to SSH login as a root.

Connecting BeagleBone to "eduroam"

Q: How can I connect my BeagleBone to the wifi "eduroam"?

A: Step 1: Create a new configuration file for "eduroam".

            $ vi /var/lib/connman/eduroam.config

Step 2: Type the following code into the Vim editor.
Replace <*YOUR_USERNAME*> and <*YOUR_PASSWORD*> with your MyUCLA login username and password, respectively.

```
[global]
Name=eduroam
Description=eduroam configuration
[service_eduroam]
Type=wifi
Name=eduroam
EAP=peap
Phase2=MSCHAPV2
CACertFile=/etc/ssl/certs/AddTrust_External_Root.pem
Identity=<YOUR_USERNAME>@ucla.edu
Passphrase=<YOUR_PASSWORD>
```

Step 3: Save the file and exit. Restart related services.

            $ systemctl restart wpa_supplicant.service
            $ systemctl restart connman.service

Step 4: Connect to eduroam as instructed in **pp4-pp5** of the document labelled ***Introduction to WiFi Configuration with SSH and SFTP Access.***

            $ connmanctl
            $ connmanctl > scan wifi
            $ connmanctl > services
            $ connmanctl > agent on
            $ connmanctl > connect <Eduroam_wifi_serivce>

Unsuccessful Driver Installation

Q: My driver installation fails.

A: Open the following link on a web browser on a personal computer.

http://wiki.seeed.cc/SeeedStudio_BeagleBone_Green_Wireless/

Go to the section ***Getting Started > STEP2. Install Drivers*** as shown below, download and install the corresponding driver according to the operating system of your machine. The driver installation should be now successful.

STEP2. Install Drivers

Install the drivers for your operating system to give you network-over-USB access to your Beagle. Additional drivers give you serial access to your board.

| Operating System	USB Drivers	Comments
Windows (64-bit)	64-bit installer	
Windows (32-bit)	32-bit installer	
Mac OS X	Network Serial	Install both sets of drivers.
Linux	mkudevrule.sh	Driver installation isn't required, but you might find a few udev rules helpful.

On a 64-bit Windows 8 or 10 machine, if the driver installation still fails, please follow the steps below to disable driver signature verification. The instruction below is written by Taylor Gibb on How-To Geek at

https://www.howtogeek.com/167723/how-to-disable-driver-signature-verification-on-64-bit-windows-8.1-so-that-you-can-install-unsigned-drivers/
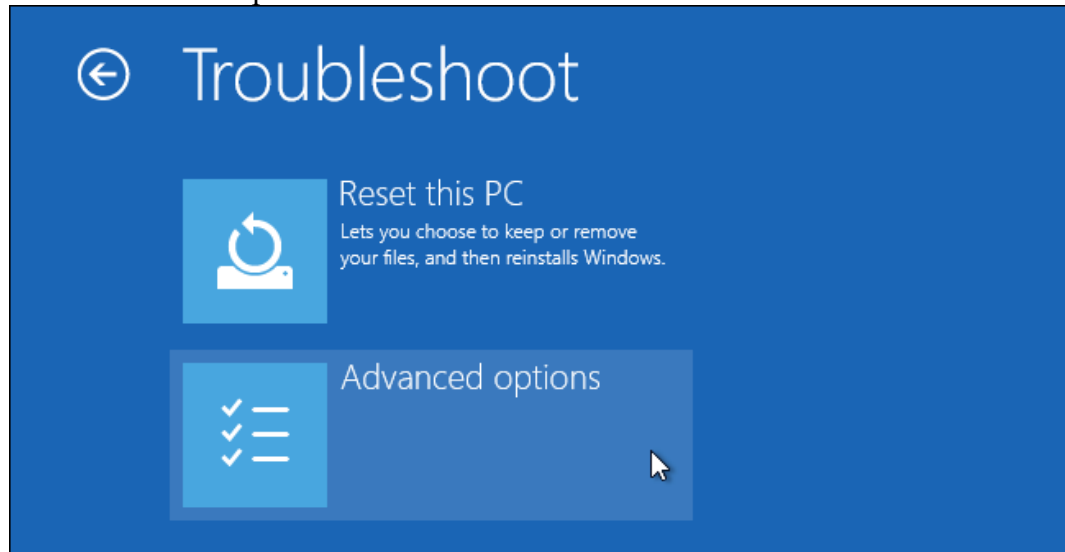
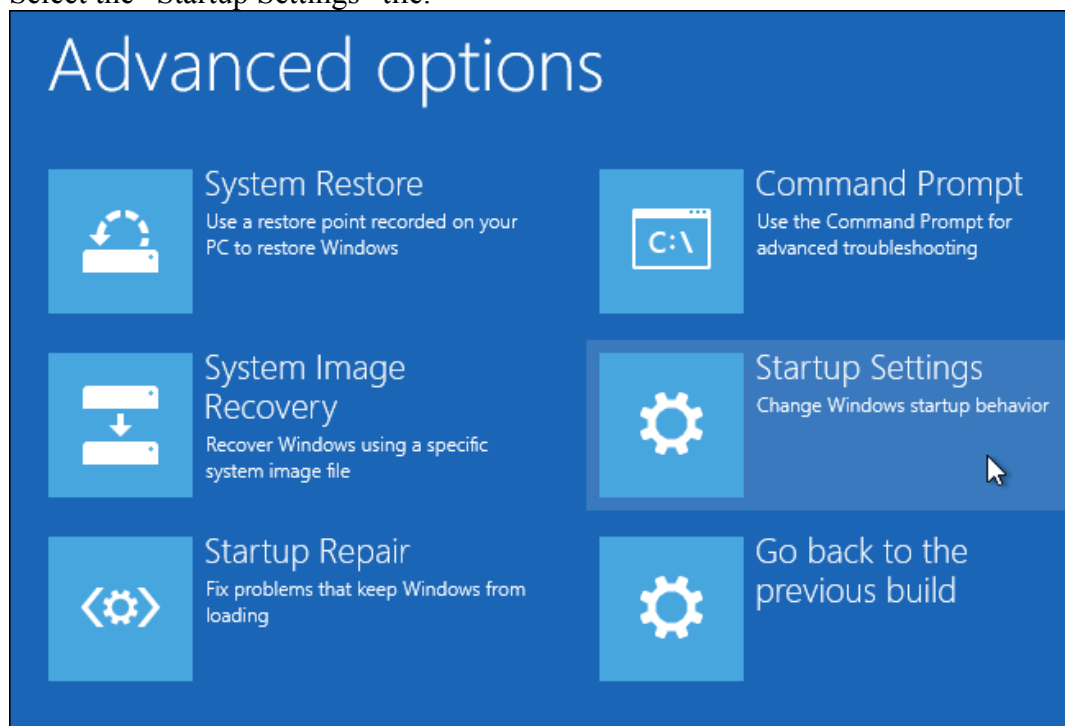1. Hold down the key while you click the "Restart" option, and your computer will restart into the menu.
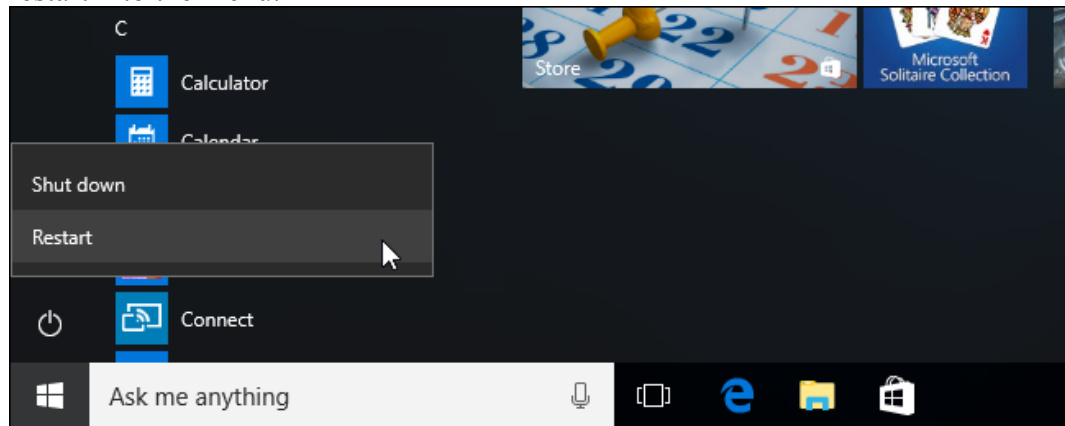
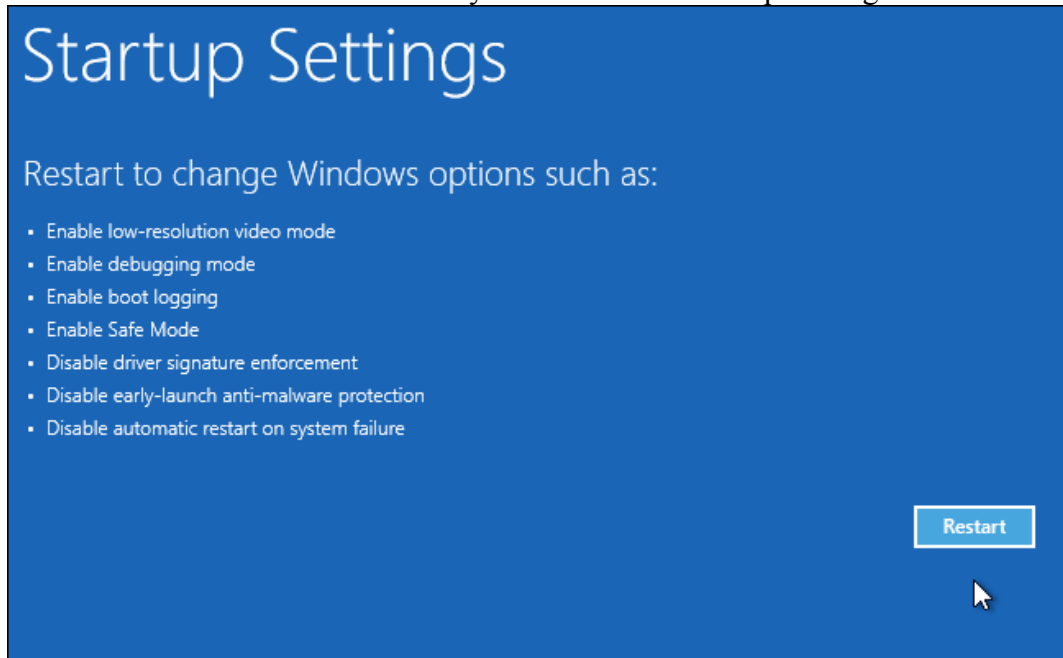2. Click "Troubleshoot" tile on the Choose an option screen.
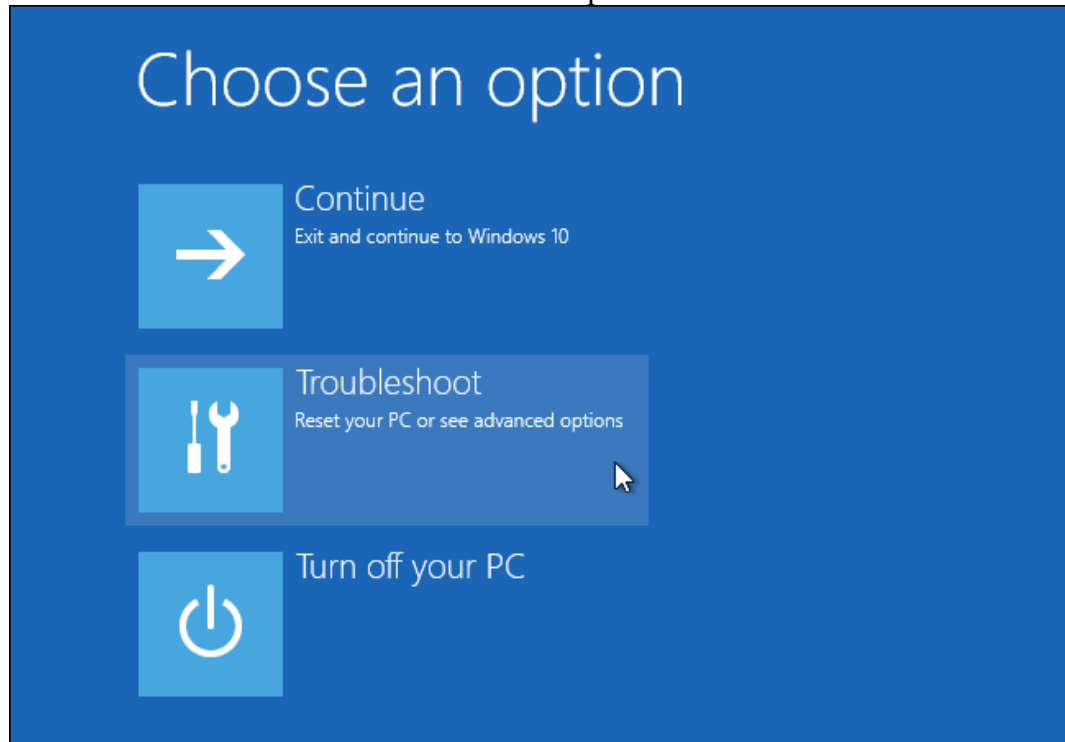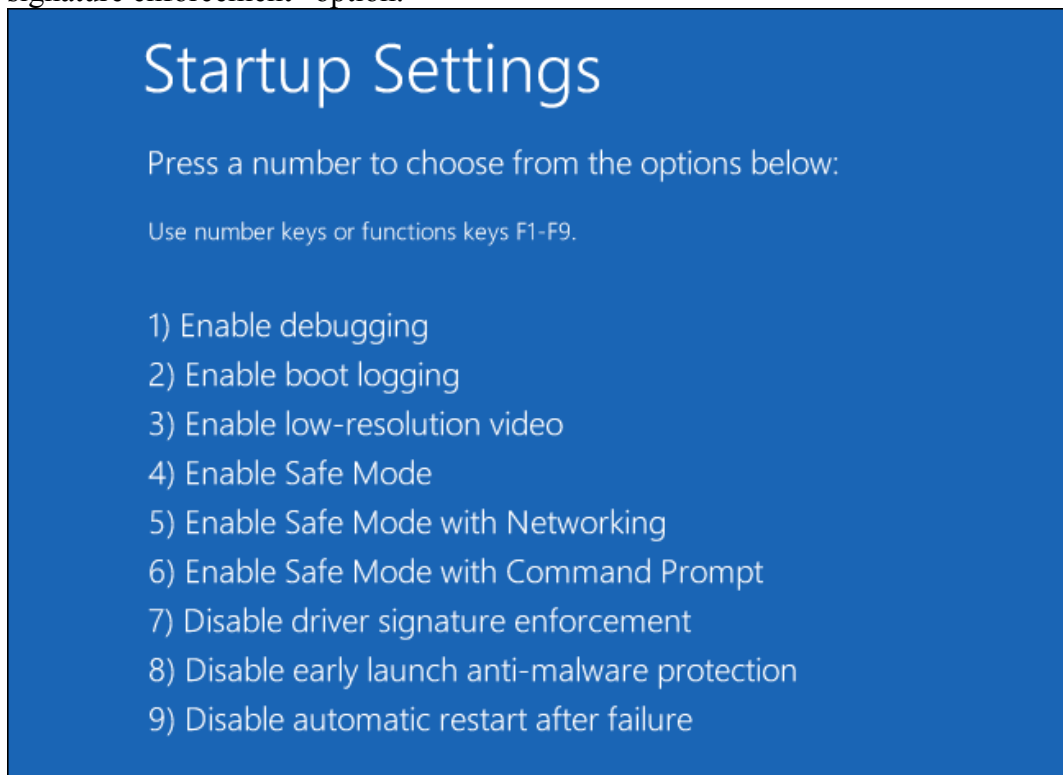
3. Press "Advanced options".

4. Select the "Startup Settings" tile.

5. Click the "Restart" button to restart your PC into the Startup Settings screen.

6. Type "7" or "F7" at the Startup Settings screen to activate the "Disable driver signature enforcement" option.

7. Your PC will boot with driver signature enforcement disable and now you will be able to install unsigned drivers. To enable driver signature enforcement again, you need to go through the menu one more time and select the corresponding option.