LAVENDER QC MANUAL

Table Of Contents
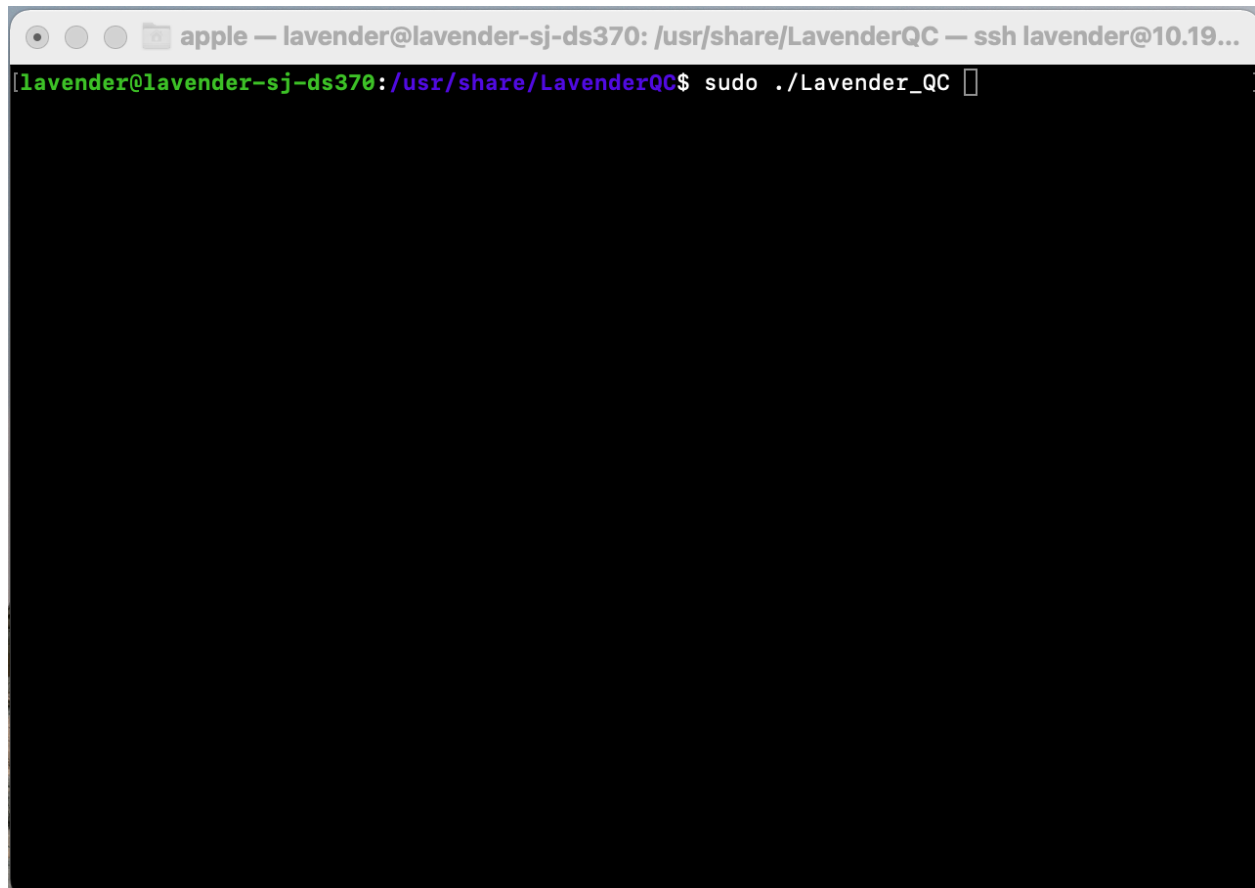
Lavender FTDI Change Description & Process Checking

Step 1: Execute Checking file [Lavender_QC]
Path: /usr/share/LavenderQC
$ sudo ./Lavender_QC

Step 2: Process checking will run [Serial Port Check]

Serial Port 1 and Port 2 should be received data

Press "Enter" to check the next process.

```
● ● ●  🖥 apple — lavender@lavender-sj-ds370: /usr/share/LavenderQC — ssh lavender@10.19...

DATE & TIME
Fri 10 Jun 14:41:58 +07 2022

Please Connect The Serial Loop Back Wire.
Checking Serial port...
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
======================================================================================
======
Press Enter to Continue
▌
```

Serial Port Fail case.
Press "Enter" to check the next process.

```
Please Connect The Serial Loop Back Wire.
Checking Serial port...
Read 0 bytes. Port 1 Received message:
Cannot recieved data!!!
Please checking the serial loop back wire and try again.
```

Step 3: Process checking will run [USB FTDI Description Check]

The Description should be LAV-LOOP[1-4]
(Depend on the number of interface card connected to the Lavender box)*

Press "Enter" to check the next process.


```
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
===================================================================================
======
Press Enter to Continue


Checking USB Description...
Number of devices is 1
Dev 0:
  SerialNumber=FTCYRX1D
  Description=LAV-LOOP1

===================================================================================
======
Press Enter to Continue
```

Step 4: Process checking will run [Host Name Check]

The hostname should be LAV-CTRL-OR[Lavender box number]

Press "Enter" to check the next process.

```
● ● ●  📁 apple — lavender@lavender-sj-ds370: ~ — ssh lavender@10.195.2.111 — 90×29
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
Read 6 bytes. Port 1 Received message: FROM2
Read 6 bytes. Port 2 Received message: FROM1
================================================================================
======
Press Enter to Continue


Checking USB Description...
Number of devices is 1
Dev 0:
 SerialNumber=FTCXRY1D
 Description=LAV-LOOP1


================================================================================
======
 Press Enter to Continue


 Your Hostname is: LAV-CTRL-OR0082


================================================================================
======
Press Enter to Continue
█
```

Step 5: Process checking will run [Mount Path Check]

MOUNTPOINT should be /lavender

Press "Enter" to check the next process.

Step 6: Process checking will run [System Time&Date Check]

Check the Local time

Press "Enter" to check the next process.

```
System time is:
               Local time: Mon 2022-06-06 10:43:46 +07
           Universal time: Mon 2022-06-06 03:43:46 UTC
                 RTC time: Mon 2022-06-06 03:43:42
                Time zone: Asia/Bangkok (+07, +0700)
System clock synchronized: no
              NTP service: inactive
          RTC in local TZ: no


================================================================================
======
Press Enter to Continue
```

Step 7: Process checking will run [IP Address Check]

IP address enp1s0 should be 192.168.0.201, enp2s0 should be 192.168.1.100

Press "Enter" to check the next process.

```
        valid_lft forever preferred_lft forever
▐
2: enp1s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qle$
    link/ether 00:90:27:e7:38:1e brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.201/24 brd 192.168.0.255 scope global noprefixroute enp1s0
        valid_lft forever preferred_lft forever
    inet6 fe80::290:27ff:fee7:381e/64 scope link
        valid_lft forever preferred_lft forever
3: enp2s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qle$
    link/ether 00:90:27:e7:38:1f brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.100/24 brd 192.168.1.255 scope global dynamic noprefixroute enp2s0
        valid_lft 86277sec preferred_lft 86277sec
    inet6 fe80::5245:6735:a752:cf1f/64 scope link noprefixroute
```

Step 8: Process checking will run [Image Version Check]

Press "Enter" to check the next process.

Step 9: Process Checking will ask to re-run the process check again?
y: To go back to run step 2 - step 8 again.
n: To go changing process

Press "Enter" to check the next process.

```
[Process checking was finished do you want to run this the process again? | (y/N): n        ]
You selected: n
================================================================================
======

Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
[1] USB FTDI PRODUCT DESCIPTION
[2] SYSTEM HOST NAME
[3] SYSTEM DATE & TIME
[4] SAVE & PROCESS CHECKING
```

=============END OF CHECKING PROCESS============

Changing Process

```
[Process checking was finished do you want to run this the process again? | (y/N): n          ]
 You selected: n
 =========================================================================================
 ======

 Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
 (1) USB FTDI PRODUCT DESCIPTION
 [2] SYSTEM HOST NAME
 [3] SYSTEM DATE & TIME
 [4] SAVE & PROCESS CHECKING
```

Select 1: USB FTDI PRODUCT DESCRIPTION CHANGE

```
 Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
 [1] USB FTDI PRODUCT DESCIPTION
 [2] SYSTEM HOST NAME
 [3] SYSTEM DATE & TIME
 [4] SAVE & PROCESS CHECKING
 1

 Checking USB Description...
 Number of devices is 1
 Dev (0):
  SerialNumber=FTCXRY1D
  Description=LAV-LOOP1


 =========================================================================================
 ======
 Press Enter to Continue
 Please Select the Dev number to be changed:
  (0)
```

Then select the device number and rename the device.

```
 Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
 [1] USB FTDI PRODUCT DESCIPTION
 [2] SYSTEM HOST NAME
 [3] SYSTEM DATE & TIME
 [4] SAVE & PROCESS CHECKING
 1

 Checking USB Description...
 Number of devices is 1
 Dev 0:
  SerialNumber=FTCXRY1D
  Description=LAV-LOOP1


 =========================================================================================
 ======
 Press Enter to Continue
 Please Select the Dev number to be changed:
 0
 Please Rename The Product Desription: LAV-LOOP1
```

Select 2: SYSTEM HOST NAME CHANGE.

```
[Process checking was finished do you want to run this the process again? | (y/N): n        ]
You selected: n
======================================================================================
======

Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
[1] USB FTDI PRODUCT DESCIPTION
[2] SYSTEM HOST NAME
[3] SYSTEM DATE & TIME
[4] SAVE & PROCESS CHECKING
```

Enter New Hostname

```
Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
[1] USB FTDI PRODUCT DESCIPTION
[2] SYSTEM HOST NAME
[3] SYSTEM DATE & TIME
[4] SAVE & PROCESS CHECKING
2

Please Enter New Hostname
lavender-sj-ds370
```

Select 3: SYSTEM DATE & TIME CHANGE.

```
[Process checking was finished do you want to run this the process again? | (y/N): n     ]
You selected: n
================================================================================
======

Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
[1] USB FTDI PRODUCT DESCIPTION
[2] SYSTEM HOST NAME
(3) SYSTEM DATE & TIME
[4] SAVE & PROCESS CHECKING
```

Enter Date and Time: Format (YYYY-MM-DD), (HH:MM:SS)

```
[Process checking was finished do you want to run this the process again? | (y/N): n     ]
You selected: n
================================================================================
======

Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
[1] USB FTDI PRODUCT DESCIPTION
[2] SYSTEM HOST NAME
[3] SYSTEM DATE & TIME
[4] SAVE & PROCESS CHECKING

3

System date seting up: Date format (YYYY-MM-DD): 2022-06-06
```

```
[System date seting up: Date format (YYYY-MM-DD): 2022-06-06                              ]
sudo timedatectl set-time '2022-06-06'
================================================================================
======

System Time seting up: Time format (HH:MM:SS): 10:54:30
```

Select 4: Save & Process Recheck

```
Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
[1] USB FTDI PRODUCT DESCIPTION
[2] SYSTEM HOST NAME
[3] SYSTEM DATE & TIME
(4) SAVE & PROCESS CHECKING
```

Select 4: PROCESS CHECKING.

**(This Process will save & re-check the process at step 2 - step 8 again)

```
Setup path please select number 1-4 that you need to change: or (ctl + c) to terminate:
[1] USB FTDI PRODUCT DESCIPTION
[2] SYSTEM HOST NAME
[3] SYSTEM DATE & TIME
(4) SAVE & PROCESS CHECKING
```

**(This Process will generate a log to the path: root/lavender_check_process.txt)