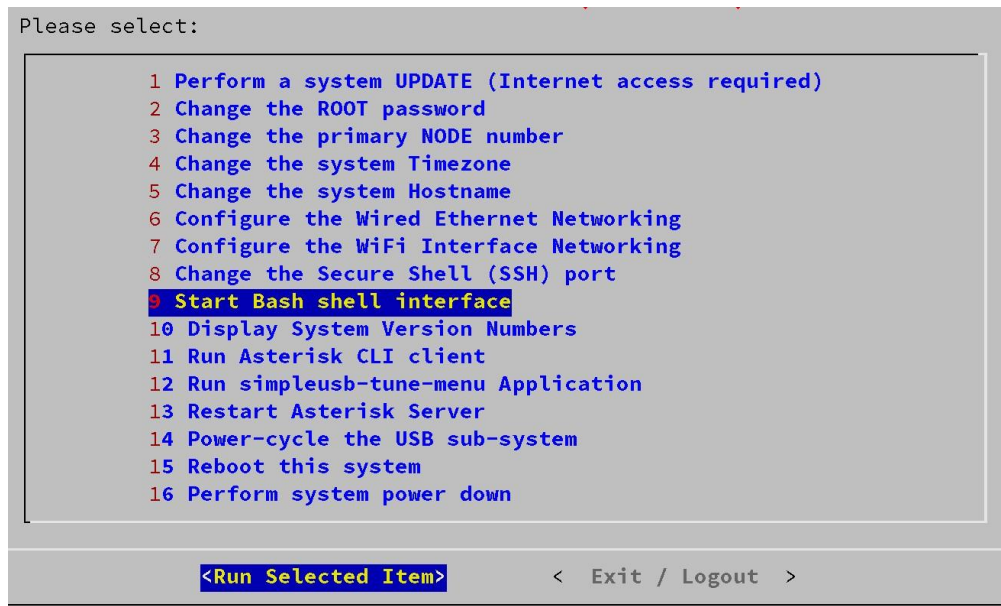# Raspberry Pi Temperature
And Cooling Options

If you are looking to view the current stats of your Raspberry Pi, such as voltage stats (if you're interested in that) or just to view the Pi Temperature.

Log into Asterisk using our SSH client, (example: Putty, Termius, MobaXterm, etc..)
Scroll down to Option #9 "Start Bash Shell Interface".

```
Please select:

        1 Perform a system UPDATE (Internet access required)
        2 Change the ROOT password
        3 Change the primary NODE number
        4 Change the system Timezone
        5 Change the system Hostname
        6 Configure the Wired Ethernet Networking
        7 Configure the WiFi Interface Networking
        8 Change the Secure Shell (SSH) port
        9 Start Bash shell interface
        10 Display System Version Numbers
        11 Run Asterisk CLI client
        12 Run simpleusb-tune-menu Application
        13 Restart Asterisk Server
        14 Power-cycle the USB sub-system
        15 Reboot this system
        16 Perform system power down



        <Run Selected Item>        <  Exit / Logout  >
```

You can simply enter the command below, cpu_stats.sh

```
[root@1084 ~]# cpu_stats.sh
```

This will display your Current CPU Stats

```
                Current CPU stats
                ----------------
cpuinfo_cur_freq = 1500 MHz.
cpuinfo_max_freq = 1500 MHz.
cpuinfo_min_freq = 600 MHz.
cpuinfo_transition_latency = 355000
cpu frequency ondemand up threshold = 95
cpu frequency scaling governor = ondemand
Current CPU Temperature = 33C / 91F
Core volt=0.8859V
sdram core volt=1.1000V
sdram I/O volt=1.1000V
sdram PHY volt=1.1000V
BogoMIPS : 270.00 X 4 CORES
```

Raspberry Pi Temperature
And Cooling Options

Some people like to look and see what the CPU is currently performing at. One great feature is being able to view your Pi's Current CPU Temperature. You will notice in this example the temp is read in both celsius and fahrenheit and has a Green highlight. The highlight is a good indication that your Pi is in a safe zone temperature wise.

Temperatures that are highlighted with Green - You are in the safe zone.

Temperatures that are highlighted in Yellow - Caution, your Pi is getting rather warm and you should keep an eye on it and maybe some air flow around the CPU chip may be needed.
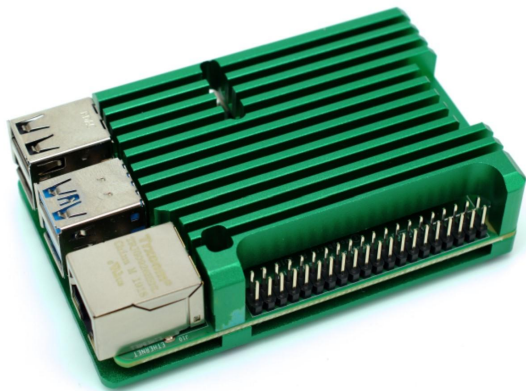
Temperatures that are highlighted in Red - Your Pi is Overheating!! You definitely need to work on getting the temperature down.

Raspberry breaks the temperature down by the chart below.

0-60c	Green-Good
60-80c	Yellow-Caution
80-+c	Red-Overheating

There are several options available in keeping your Pi nice and cool. It will depend how much you want to put into it.

Pimoronie Heatsink Case-Hero

Miuzei Raspberry Pi 3 B+ Case with Fan Cooling

Raspberry Pi Temperature
And Cooling Options

GeeekPi - Raspberry Pi ICE Tower

There are so many options if you are looking for cooling solutions for your Raspberry Pi. Google Raspberry Pi cooling options…

1. Raspberry Pi's website. Raspberrypi.org
2. Amazon.com
3. Ebay.com
4. Etc….