_	
Lab 0:	Building Your PI RED BLUE
Skill	Introductory Time 30 Minutes
You Need You Get	A new Raspberry PI kit. An complete and functional Raspberry PI.
Step	Are You Red or Blue?
	If you got your Raspberry PI kit from SecSIG, it came in a red or blue bag.
1	The red bag is a Raspberry PI Zero Kit, and the blue bag is a Raspberry PI 3 B+
	kit. From here on out, we'll just refer to these as Red and Blue.
	Some of the labs may specifically be recommended for either or both of these
	kits. Check out the top right corner of each lab to see if the lab is right for your
	KIT. If you brought your PI with you, make sure you know which one you have.
Step	Do You Have Everything You Need?
2	To get started, you first need to make sure you have all of the hardware.
	• A Raspberry Pl
	 A Case A Power Supply (2 amp Micro LISP)
	 A Power Supply (2 amp Micro 038) A Micro USB cable to go from the Baspherry PL to the Power Supply
	A Monitor that supports HDMI
	 A HDMI cable that connects from the Raspberry pi to the Monitor
	A USB Keyboard / Mouse
	A 8Gb Micro SD Card with Noobs Software
	Optionally, you may have or need the following:
	Red Kits (Raspberry PI Zero) may have a USB to MicroUSB adapter which can
	help plug in the USB Keyboard
	Blue Kits (Kaspberry PI 3 B+) may have an Ethernet port and cable which can be
	used to plug into an ethernet network.

If you have a Micro SD Card, but need the Noobs software, see the lab assistant.





Step

Plug In Your Pl

Now that you have all of the hardware assembled, it's time to plug everything in.

First, plug in the keyboard / mouse. For Red Kit users, you may need an adapter depending on your setup.

Next, plug in the HDMI cable to the Raspberry PI and the monitor. Make sure your monitor is on and the HDMI source is selected.

Optionally, if you have a Blue Kit, you may want to plug in an ethernet cable. Last, plug in the Raspberry PI's power cable. Make sure that if there is a power switch, it is set to on.

Goes in the micro SD card slot GPIO pins USB Ports USB plug from keyboard or mouse o USB Ports Network port Ethernet network cable tc vour Internet Micro USB port HDMI port HDMI cable to fcr power supply TV or monitor Micro USB power cable plugs into main

Okay, your PI should start up. If you see something come up on the screen, you're probably ready to move forward. If you're having any problems, ask the lab assistant.

Next we'll start your Raspberry PI for the first time! Step The Noobs software that is on your MicroSD card is meant for first time users, but it needs to be setup the first time it is used. In this step, we'll do that. The first thing the Noobs software will do is setup the MicroSD card by partitioning it into three separate 'partitions'. This is to help keep things organized and it will be important to remember this in future labs as you'll be using these different partitions for specific purposes. The first partition is where your Raspberry PI operating system is kept. This will be where important things, like the boot files, will be kept. You may interact with this in some of the intermediate and advanced labs. The second partition is the Recovery partition. This is here in case you get in trouble. It can help you get things back up and running if something breaks. For now, we're not going to work with this. The third partition is all for you. It is where we're going to keep your stuff. We'll definitely work with this as we go along.

As Noobs get's started, it's going to ask what operating system you want to install. For our lab, we're going to use Raspbian. Remember, there are other choices and you can come back later to try the others out by erasing and reloading Noobs, or by replacing the MicroSD memory card to try out something new without erasing your Raspbian installation.

9		Q	<u>(</u>	4		
Install (i)	Edit config (e)	Wifi networks (w)	Online help (h)	Exit (Esc)		
× (0	Raspbian [RECOMMENDED] A port of Debian jessie for the Raspberry Pi (full desktop version)					
	LibreELEC_RPi2 LibreELEC is a fast and user-friendly Kodi Entertainment Center distribution.					
• (0	Raspbian Lite A port of Debian jessie for the Raspberry Pi (minimal version)					
	Lakka RPi2 The DTY retro emulation console					
	Data Partition Adds an empty 512MB ext4 format partition to the partition layout.					
	OSMC_Pi2 A fast and feature filled open source media center					
_ 58	recalboxOS-rp	oi3				
– Disk spa	ce ———					
Needed:	3970 MB					
Available	e: 7416 MB					
	Language (I): 🔡 English (UK)	▼ Keyboa	ard (9): gb 🔻		

It's also worth noting that you may have a better experience if you select English (US) for both the language and keyboard if you are in the US.

Just wait for the installation to complete and you're done!

DONE!

