

Chapter number	Software required (With version)	Free/Proprietary	If proprietary, can code be performed using a trial version	If proprietary, then cost of the software	Download links to the software	Hardware specifications	OS required
2	Ubuntu 16.04 (or other Linux Distribution)	Free	N/A	N/A	<a href="https://www.ubuntu.com/download">https://www.ubuntu.com/download</a>	2GHz dual core processor or better 2GB System Memory 25GB of free hard drive space Installation media	Linux
2	Python 3.5+	Free	N/A	N/A	<a href="https://www.python.org/">https://www.python.org/</a> (Note. Python 3.5 is pre-installed with Lots of Linux Distribution)	N/A	Linux

2	VIRL (optional if you have other lab equipme nts)	Proprietary	No trial version	\$199 /year	<a href="https://learningnetworkstore.cisco.com/virtual-internet-routing-lab-virl">https://learningnetworkstore.cisco.com/virtual-internet-routing-lab-virl</a>	<a href="https://learningnetworkstore.cisco.com/virlfaq/hardware">https://learningnetworkstore.cisco.com/virlfaq/hardware</a>	See requirem ents

Detailed installation steps (software-wise)

1. Ubuntu Installation Steps: <https://tutorials.ubuntu.com/tutorial/tutorial-install-ubuntu-desktop#0>
2. Python 3.5 pre-installed with Ubuntu 16.04
3. Cisco VIRL (optional) installation steps: <http://virl.cisco.com/>

\* Other required software and installation steps will be provided in the respective chapters related to the topic