### GNU Radio Installation Manual

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# 1 Pre-requisites

1. Laptop with Ubuntu 20.04 LTS or above.

# 2 Installation Steps

- 1. On the terminal, type the following commands:
  - 1) sudo apt-get upgrade
  - 2) sudo add-apt-repository ppa:gnuradio/gnuradio-releases-3.9
  - 3) sudo apt-get update
  - 4) sudo apt-get install gnuradio python3-packaging
- 2. It is recommended to install GNU version 3.9 and above.
- 3. The installation may take approximately 3-5 minutes.

## 3 Run GNU Radio

- 1. To run GNU Radio, open the terminal and type in gnuradio-companion.
- 2. For 20.04 users, you will get stable 3.9.5 version of GNU Radio.

If faced any issue regarding dependencies while installing or running GNU-Radio, refer to the following document: Ubuntu Instal

## 4 Installation of RTL-SDR on Ubuntu

On the terminal type the following commands:

- 1. sudo apt install rtl-sdr
- 2. sudo apt install gr-osmosdr

Then open GNU-Radio and in search section check whether rtl-sdr option is showing up or not.

If an error occurs while installing rtl-sdr go through the following document: Error Resolving