sudo apt-get install qemu-system

This PPA is an alternative to toolchain released at https://launchpad.net/gcc-arm-embedded. The source codes for both are same. Currently supports Ubuntu 10.04/12.04/14.04/14.10 32 and 64 bit.

Detailed explanations to Launchpad PPA can be found at https://help.launchpad.net/Packaging/. That website explains how a PPA is set up and how to add existing PPA and install software from it.

Here are quick steps to install toolchain from this PPA on Ubuntu before 14.04:

Step1: Inside Ubuntu, open a terminal and input

"sudo add-apt-repository ppa:terry.guo/gcc-arm-embedded"

Step2: Continue to input

"sudo apt-get update"

Step3: Continue to input to install toolchain

"sudo apt-get install gcc-arm-none-eabi"

To remove installed toolchain, just input "sudo apt-get remove gcc-arm-none-eabi".

To update the toolchain, just repeat above step2 and step3.

Questions should be asked at https://answers.launchpad.net/gcc-arm-embedded

Bug can be filed at https://bugs.launchpad.net/gcc-arm-embedded/+filebug. It is highly encouraged to ask question first before filing a bug.

!!! If you are using Ubuntu 14.04 and later, please be careful because there are packages with same name but produced by Debian and inherited by Ubuntu. Simply follow the above 3 steps, you may end up with gcc-arm-none-eabi from Ubuntu. So to install gcc-arm-none-eabi from ARM, steps are:

1). sudo apt-get remove binutils-arm-none-eabi gcc-arm-none-eabi

2). sudo add-apt-repository ppa:terry.guo/gcc-arm-embedded

3). sudo apt-get update

4). sudo apt-get install gcc-arm-none-eabi=4.9.3.2015q1-0trusty13

or

sudo apt-get install gcc-arm-none-eabi=4.9.3.2015q1-0utopic14

Meanwhile we are working with Debian to consolidate and unify this toolchain.

More info: https://launchpad.net/~terry.guo/+archive/ubuntu/gcc-arm-embedded

Press [ENTER] to continue or ctrl-c to cancel adding it