Arcadia DAQ requirements:

- hardware:

- PC:
- one Gbit Ethernet port (or USB-to-Gbit Ethernet adapter)
- one free USB port
- KC705 board
- cables:
 - one USB-micro cable (included in the KC705 box)
 - one Ethernet cable (included in the KC705 box)
 - 2 Firefly cables

- software:

- operating system:
 - CentOS Stream 8
 - Fedora 31 or newer
 - Ubuntu
- package list:
- for CentOS:
- dnf install epel-release python39-devel tcl tcl-devel tk tk-devel libjpeg-devel gcc git make g++ boost boost-devel pugixml-devel
 - pip-3.9 install matplotlib numpy tqdm scipy tabulate pybind11
 - IPbus client software: https://ipbus.web.cern.ch/doc/user/html/software/installation.html
 - curl

https://ipbus.web.cern.ch/doc/user/html/_downloads/ipbus-sw.centos8.x86_64.repo -o /etc/yum.repos.d/ipbus-sw.repo

- yum-config-manager --enable powertools
- yum groupinstall uhal controlhub
- Arcadia DAQ software:
 - git clone https://baltig.infn.it/arcadia/arcadia-daq-sw.git
 - cd arcadia-daq-sw/work
 - make cxxopts
 - make -C bin
- For programming the FPGA:
 - vivado (or vivado_lab) 2020.2

or

- dnf copr enable mobicarte/openFPGALoader
- dnf install openFPGALoader

(after compiling, run: openFPGALoader -b kc705 firmware/top.bit)

For virtual machines, it is important they can access both Ethernet and USB ports