ONOS Manual

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IMPORTANT: these steps was tested on Ubuntu 16.04

- **Installing Onos :**

  - Prerequests: install buck (Facebook tool)

  - The installation of ONOS must be in the home directory

  - **Link** : https://wiki.onosproject.org/display/test/Building+ONOS

- **Installing Onos with Mininet :**

  - :https://wiki.onosproject.org/display/test/Environment+setup+with+Mininet+and+onos.py

  - Init with Mininet :
    - cd ~/onos/tools/dev/mininet
    - sudo mn --custom onos.py --controller onos,1 --topo tree,2,2

  - To get the log file of the onos (after starting it) , type this command :
    tail -f /tmp/onos1/log

- **After you do these steps** : check if your terminal know the Onos commands (for example type Onos) .
    if your terminal doesn't know the Onos commands :
  - Go to your bashrc (~/.bashrc)
  - Add this line at the end of the file (. ~/onos/tools/dev/bash_profile)
  - Save the edited file
  - Now everything should work

- **Generating a template application for Onos :**

  https://wiki.onosproject.org/display/test/Template+Application+Tutorial

- **Starting a sample application :**

  https://wiki.onosproject.org/display/ONOS11/Application+tutorial

- **ONOS UI :**

  http://@ONOS_VM_IP:8181/onos/ui/
  User name: onos
  Password: rocks

- **Add Rest capabilities :**

  onos-create-app rest org.foo.app foo-app

- **Install onos app :**

  onos-app <VM_IP> install target/<file>.oar

- **Activate app :**

  onos-app activate org.foo.app

- **graph example :**

  https://github.com/opennetworkinglab/onos-app-samples/blob/master/tvue/src/main/java/org/onosproject/tvue/TopologyResource.java

- **Tapi API Links:**

  - New : https://github.com/OpenNetworkingFoundation/Snowmass-ONFOpenTransport
  - Old : https://github.com/donaldh/unimgr/tree/frankfurt-boron/nrp-api/src/main/yang