ONOS Introduction and Installation Steps

Understanding ONOS:

https://www.youtube.com/watch?v=LFeOy0PR7VE

https://thenewstack.io/open-source-sdn-controllers-part-vii-onos/

https://www.researchgate.net/publication/344459385_Performance_analysis_of_software_defined_network_using_intent_monitor_and_reroute_method_on_ONOS_controller

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Installing ONOS:

1. Install the required packages

   sudo apt-get install ssh git curl zip unzip python python3 bzip2

   sudo apt-get install pkg-config g++ zlib1g-dev

2. Install Bazel with the appropriate permissions

   $ wget https://github.com/bazelbuild/bazelisk/releases/download/v1.4.0/bazelisk-linux-amd64

   $ chmod +x bazelisk-linux-amd64

   $ sudo mv bazelisk-linux-amd64 /usr/local/bin/bazel

3. Check if Bazel was installed by verifying its version

   $ bazel version

4. Clone ONOS project using git in the home directory

   $ git clone https://github.com/opennetworkinglab/onos

5. Set ONOS root folder

   $ export ONOS_ROOT=~/onos

   $ source $ONOS_ROOT/tools/dev/bash_profile

6. Move to ONOS main folder using ONOS_ROOT

   $ cd $ONOS_ROOT

7. Use Bazel to build ONOS

   $ bazel build onos

8. Now you can Run ONOS using the following command

   $ bazel run onos-local -- clean debug

   $ onos localhost

9. If "Onos command not found error" then run the bash file and run again

   $ source tools/dev/bash_profile