Virtual OpenFlow Controller

- There is no built-in controller software provided by EstiNet simulation platform. Instead, the platform is compatible with 3rd-party controller software, such as Ryu, OpenDaylight (ODL), NOX, etc.

Virtual OpenFlow Switch

- OpenFlow v1.3
  - Controller-to-switch messages
  - Asynchronous messages
  - Symmetric messages
  - Flow table
    - Multiple flow tables
    - All match fields but OFPXT_OFB_PBB_ISID
  - Group table
    - 4 group types (all, select, indirect, fast failover)
  - Meter table
    - 2 band types (drop and dscp remark)
  - Port
    - All OpenFlow ports but optional reserved ports
  - Counter
    - Per-table, per-flow, per-group, per-bucket, per-meter, per-band, and per-port counters

EstiNet Simulation Platform on Fedora Linux

Graphical User Interface

Functional Description

- SDN – OpenFlow Switch
  - SDN
  - OpenFlow
    - v1.3
    - Controller-to-switch messages
    - Asynchronous messages
    - Symmetric messages
    - Flow table
      - Multiple flow tables
      - All match fields but OFPXT_OFB_PBB_ISID
    - Group table
      - 4 group types (all, select, indirect, fast failover)
    - Meter table
      - 2 band types (drop and dscp remark)
    - Port
      - All OpenFlow ports but optional reserved ports
    - Counter
      - Per-table, per-flow, per-group, per-bucket, per-meter, per-band, and per-port counters

Visit www.estinet.com for more details