Routing

Graphical User Interface

Functional Description

Virtual Router
- Linux user-space routing daemon
- Any daemon software developed in the Fedora Linux environment
- Linux kernel-space routing table
- IPv4 and IPv6 routing mechanisms
- Virtual network interface card (NIC) in EstiNet SE
- IEEE 802.3 (Ethernet) Media Access Control (MAC)

Routing Protocol
- Combining the simulation platform with Quagga, an open source software with routing protocol suite
- Distance-vector routing protocol
  - Border Gateway Protocol (BGP)
  - Routing Information Protocol (RIP)
- Link-state routing protocol
  - Open Shortest Path First (OSPF)

Virtual OpenFlow Switch
- IP routing of Software-defined Networking (SDN)
- IP header field (e.g., dst addr) matching and forwarding
- User-designed, field-optimized routing policies

EstiNet Simulation Platform on Fedora Linux

Graphical User Interface

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