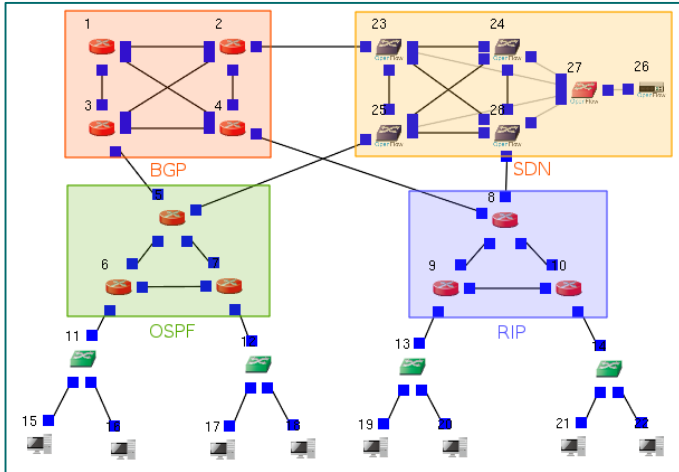


## Routing

### Graphical User Interface



#### 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

### 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)

## EstiNet Simulation Platform on Fedora Linux

