

Hands-on Open vSwitch and Software-defined Networking

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WASTC 2021 virtual Faculty Development Weeks (vFDW)

June 25, 2021

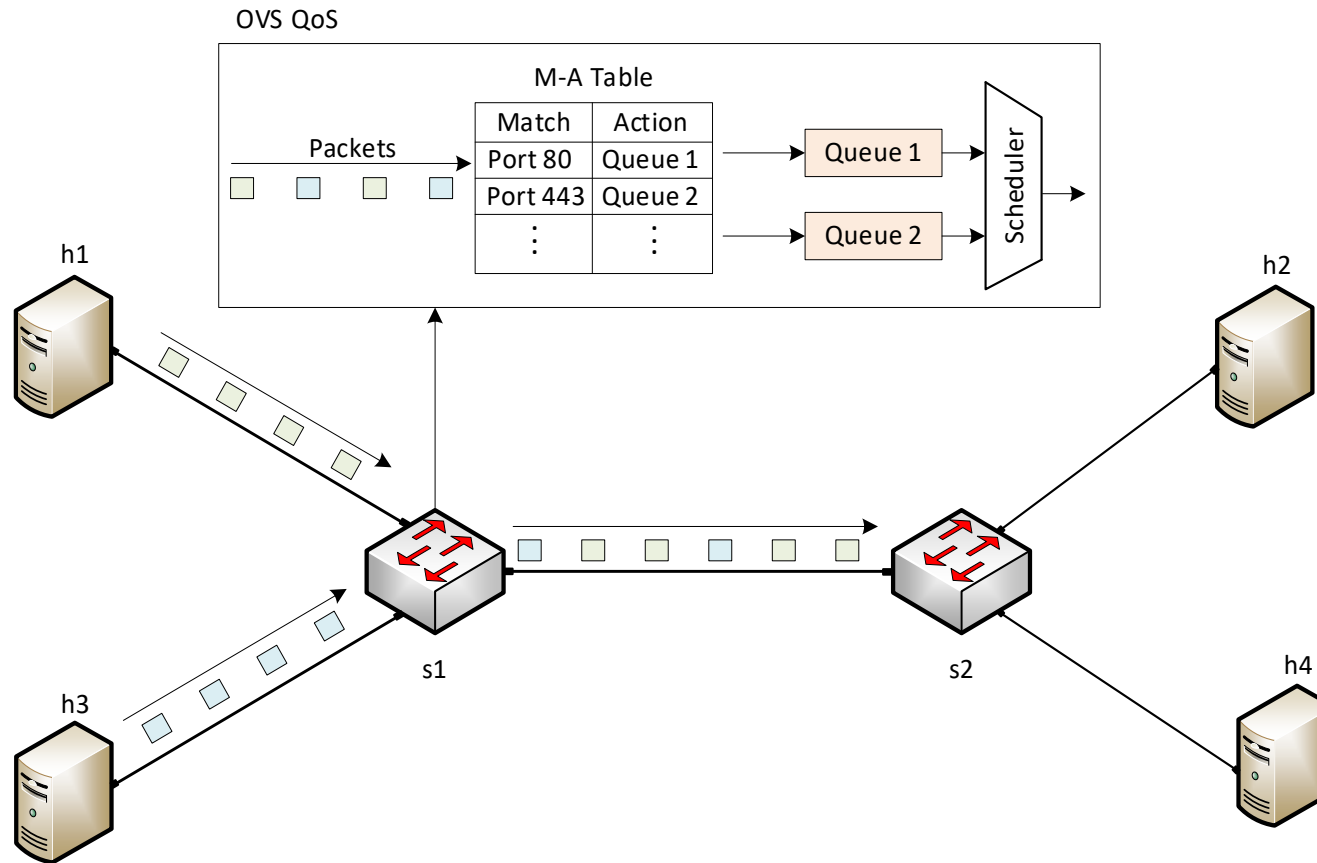
Lab 14: Quality of Service (QoS)

QoS overview

- QoS manages network resources by prioritizing specific types of data to maximize the experience of end-users
- Open vSwitch supports **Shaping** and **Policing** mechanisms
- **Policing** is a simple form of quality-of-service that simply drops packets received in excess of the configured rate
- For traffic that egresses from a switch, OVS supports traffic **shaping**

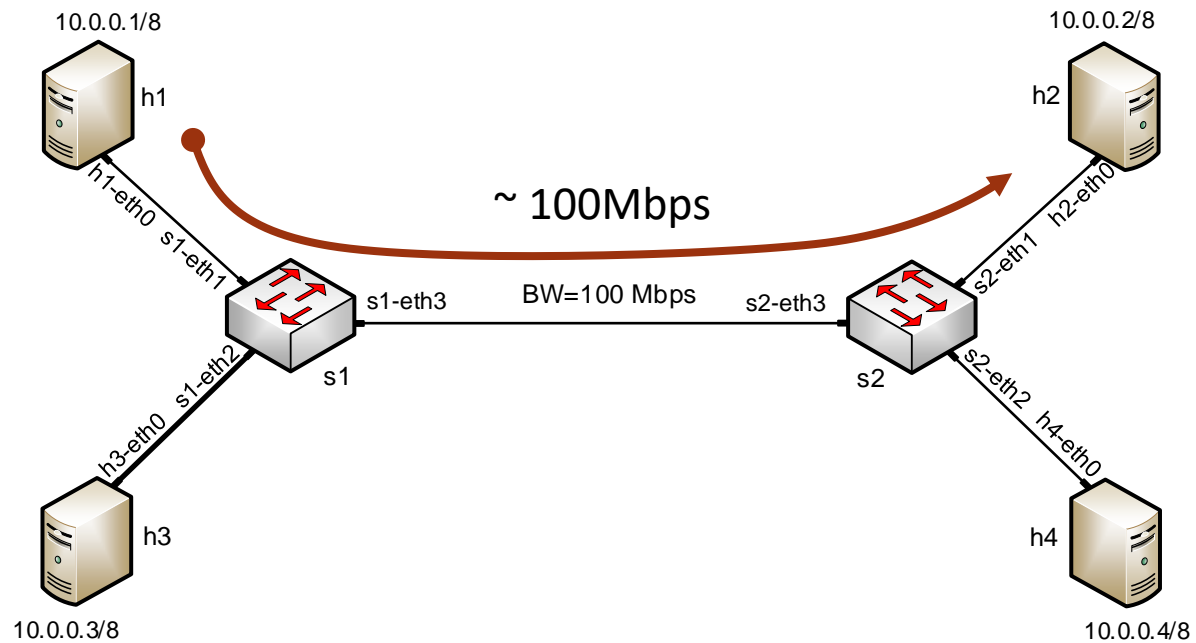
QoS shaping

- QoS shaping is implemented by separating in different queues



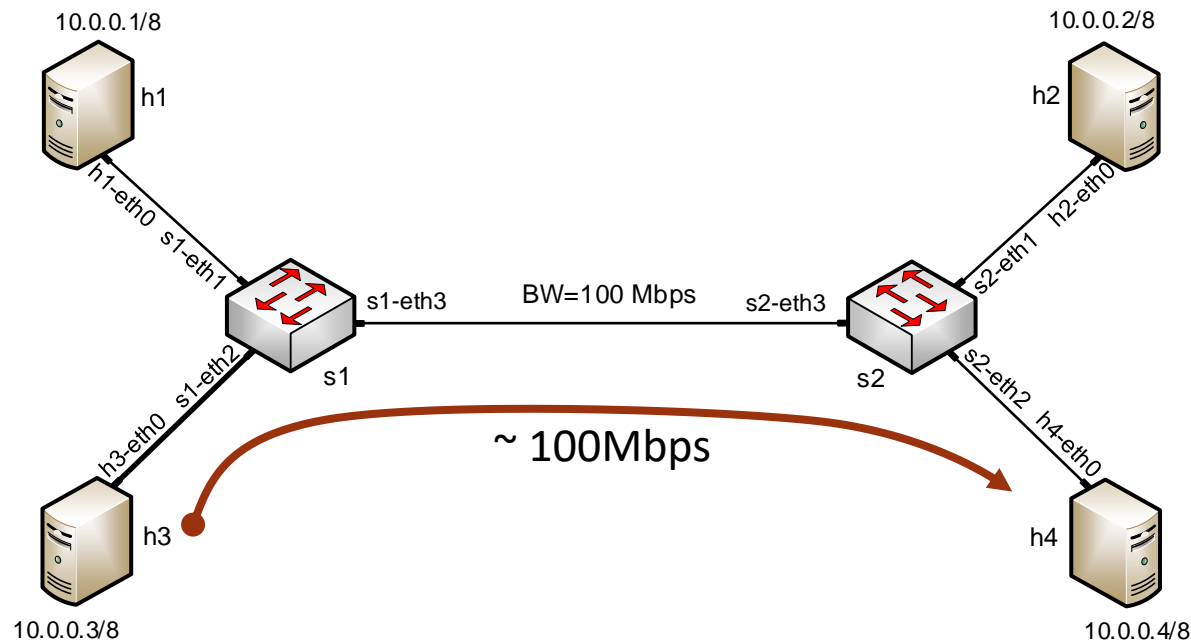
Lab Topology and Configuration

- Configure QoS shaping in port s1-eth3 so that host h1 gets higher priority when competing with host h3
- Set BW between s1 and s2 to 100Mbps



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- If the destination port is 21, use queue 1, 70Mbps
- If the destination port is 80, use queue 2, 30Mbps

