

# Hands-on Open vSwitch and Software-defined Networking

Jorge Crichigno  
University of South Carolina  
<http://ce.sc.edu/cyberinfra>  
[jcrichigno@cec.sc.edu](mailto:jcrichigno@cec.sc.edu)

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# Open vSwitch Lab Series overview

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# Lab Series: Open Virtual Switch

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- Lab 1: Introduction to Linux Namespaces and Open vSwitch
- Lab 2: Introduction to Mininet
- Lab 3: Introduction to Open vSwitch
- Lab 4: Open vSwitch Flow table
- Lab 5: Implementing VLANs in Open vSwitch
- Lab 6: VLAN trunking in Open vSwitch
- Lab 7: Implementing routing in Open vSwitch
- Lab 8: Open vSwitch Database Management Protocol (OVSDB)
- Lab 9: Open vSwitch Kernel Datapath
- Lab 10: Configuring Stateless Firewall using ACLs
- Lab 11: Configuring Stateless Firewall using Connection Tracking
- Lab 12: Configuring GRE Tunnel
- Lab 13: Configuring IPsec GRE Tunnel
- Lab 14: Configuring Quality of Service (QoS) in Open vSwitch

# Organization of Lab Manuals

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Each lab starts with a section *Overview*

- Objectives
- Lab topology
- Lab settings: passwords, device names
- Roadmap: organization of the lab

## *Section 1*

- Background information of the topic being covered (e.g., fundamentals of BGP)
- Section 1 is optional (i.e., the reader can skip this section and move to lab directions)

## *Section 2... n*

- Step-by-step directions