



# OpenFlow with Google

Never Stand Still

Faculty of Engineering

School of Electrical Engineering and Telecommunications

## What is this workshop about?

The University of New South Wales (UNSW) and Google are collaborating to deliver a workshop on OpenFlow, which is a method for implementing Software Defined Networking (SDN). SDN is an emerging architecture for computer networking which provides separation of control and data forwarding planes in network equipments, vendor-independent interface (API) between these two planes, and virtualizes the underlying network. SDN breaks with conventional network/device architecture by removing complexity from hardware and adding flexible external control in software, enabling everything from massive datacenter fabrics for cloud/HPC to high performance WAN. This one-day workshop will give participants hands-on experience in configuring and operating OpenFlow based network switches.

## Why OpenFlow/SDN?

OpenFlow already has strong support from major network users and providers (Facebook, and Google, and Microsoft), as well as network equipment vendors (Juniper Networks, Cisco Systems, Brocade, HP and IBM). Many vendors are already shipping commercial hardware supporting OpenFlow. OpenFlow devices are in production use internationally, most publicly in research networks such as NSF's GENI, and Internet2's and Indiana University's Open Science, Scholarship and Services Exchange. Network operators plan to build their infrastructure using this innovative technology.

## Who the workshop is for:

The workshop is intended to be both detailed and technical, and therefore should be of particular interest to network architects and engineers, computer scientists, and electronic systems engineers.

## Workshop agenda:

- Introduction to SDN/OpenFlow
- Demonstration of an OpenFlow application on OpenFlow enabled switches
- Exploration/discussion of building an OpenFlow network
- Identifying key OpenFlow projects for collaboration across research organisations and industry

**Instructors:** The primary instructor is Josh Bailey of Google. Other presenters will come from HP, Juniper, REANNZ, and UNSW.

**When:** Friday 9 November 2012, 9:00am - 4:00pm

**Where:** Room 343A, School of Electrical Engineering and Telecommunications (G17),  
University of New South Wales, Kensington, NSW, Australia.

**Cost:** AU\$300 (individual) or AU\$1000 (group of 4). This price is GST inclusive.

**Registration:** Please contact Nelly Taubman at [nelly.w@unsw.edu.au](mailto:nelly.w@unsw.edu.au) or by phone at +61 2 9385 6051

For more information, please see <http://www2.ee.unsw.edu.au/~vijay/OpenflowWorkshop.html>