Software-Defined Networking Demystified

2-day Lecture providing overview and application of SDN technology

Businesses are increasingly looking towards network automation to improve time-to-revenue, reduce OPEX and increase customer satisfaction. Over the past few years, there has been an ever-increasing drumbeat signaling that technologies like Software-Defined Networking (SDN), Network Functions Virtualization (NFV) and cloud data centers can provide these results. But what is SDN anyway? And what does SDN have to do with NFV and cloud data centers? You may have a vague idea of what it's all about, but wouldn't it be great to get a real handle on the concepts, definitions, technologies, industry impact, major players, myth, reality and even more?

This 2-day course puts it all into perspective

Course Outline:

SDN Background:

- History of SDN
- Technical Drivers for SDN
- Market Drivers of SDN

Definition of SDN:

- "Open SDN"
- "SDN via APIs"
- "SDN via Network Virtualization"

SDN Players and Activities:

- Open Standards
- Open Source Software
- Vendors Overview of SDN Solutions
- Customers: Key Data Center, Carriers and Enterprise Deployments

Use Cases:

- Data Center
- Carrier
- Enterprise

SDN Technologies:

- Controllers:
  - Open Source
  - Commercial
- Protocols
  - NETCONF
  - OpenFlow
  - OVSDB
  - BGPLS
  - PCEP

SDN Neighbors:

- OpenStack
- Network Functions Virtualization