

Introduction to MPLS & Multiservice Applications

APNIC Technical Workshop

July 15 to 18, 2014 in Port Villa, Vanuatu

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Presenter

Nurul Islam Roman

Senior Training Specialist, APNIC

Nurul manages APNIC training lab and involved in delivering technical training for the APNIC community. He possesses specialized skills in designing and running IPv4/IPv6 routing and switching infrastructure for service provider and enterprise networks. Prior to his current role he looked after the IP and AS number allocations for the APNIC Members.

Following graduation from the UK in computer science technologies, Nurul gained lots of experience working in the ISP industry in the UK and in Bangladesh.

Areas of interests:

Network Architecture & Design Planning, Internet Resource Management, IPv6 Technologies, Routing and Switching Infrastructure, ISP Services, MPLS, OSPF, IS-IS, BGP, Network Security, Internet Routing Registry and RPKI.

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Presenter

Elly Tawhai

Senior Internet Resource Analyst

Specialties:
Internet Resource Management
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Presenter

Sheryl Hermoso (Shane)

Training Officer, APNIC

Sheryl has had various roles as a Network and Systems Administrator prior to joining APNIC. Starting her career as a Technical Support Assistant while studying at the University of the Philippines. Sheryl later finished her degree in Computer Engineering and continued to work in the same university as a Network Engineer, where she managed the DILNET network backbone and wireless infrastructure.

Areas of interests:
DNS/DNSSEC, IPv6, and Network Security

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Overview

Introduction to MPLS & Applications

- Introduction to MPLS
- MPLS Label Distribution Protocol
- Basic MPLS Configuration (Lab Exercise)
- MPLS Layer 3 VPN Concept & Architecture
- MPLS L3 VPN Configuration (Lab Exercise)
- MPLS Layer 2 VPN Concept & Architecture
- MPLS L2 VPN Configuration (Lab Exercise)
- MPLS Traffic Engineering

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Agenda for Day 1

Start Time	End Time	Session
9:00 am	10:30 am	Introduction to MPLS
10:30 am	11:00 am	Tea Break
11:00 am	1:00 pm	MPLS Label Distribution Protocol
1:00 pm	2:00 pm	Lunch Break
2:00 pm	3:30 pm	Workshop Module 1 (Basic MPLS Configuration)
3:30 pm	4:00 pm	Tea Break
4:00 pm	5:00 pm	Workshop Module 1 Basic MPLS Configuration continued)

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Agenda for Day 2

Start Time	End Time	Session
9:00 am	10:30 am	Layer 3 MPLS VPNs Presentation
10:30 am	11:00 am	Tea Break
11:00 am	1:00 pm	Layer 3 MPLS VPNs Presentation
1:00 pm	2:00 pm	Lunch Break
2:00 pm	3:30 pm	Layer 3 MPLS VPNs Presentation
3:30 pm	4:00 pm	Tea Break
4:00 pm	5:00 pm	Workshop Module 2 (L3 MPLS VPN Lab)

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Agenda for Day 3

Start Time	End Time	Session
9:00 am	10:30 am	Workshop Module 2 (L3 MPLS VPN Lab)
10:30 am	11:00 am	Tea Break
11:30 am	1:00 pm	Workshop Module 2 (L3 MPLS VPN Lab)
1:00 pm	2:00 pm	Lunch Break
2:00 pm	3:30 pm	Workshop Module 2 (L3 MPLS VPN Lab)
3:30 pm	4:00 pm	Tea Break
4:00 pm	5:00 pm	MPLS L2 VPN Presentation

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Agenda for Day 4

Start Time	End Time	Session
9:00 am	10:30 am	MPLS L2 VPN Presentation
10:30 am	11:00 am	Tea Break
11:30 am	1:00 pm	Workshop Module 2 (L3 MPLS VPN Lab)
1:00 pm	2:00 pm	Lunch Break
2:00 pm	3:30 pm	MPLS TE Presentation
3:30 pm	4:00 pm	Tea Break
4:00 pm	5:00 pm	MPLS TE Presentation