SANOG XXXIII

# Agenda

### Time Schedule

| | |
|---|---|
| **Session 1** | 09:00 - 11:00 |
| **Break** | 11:00 - 11:30 |
| **Session 2** | 11:30 - 13:00 |
| **Lunch** | 13:00 - 14:00 |
| **Session 3** | 14:00 - 16:00 |
| **Break** | 16:00 - 16:30 |
| **Session 4** | 16:30 - 18:00 |

### Instructors

| FL | First Name | Organisation | Country |
|---|---|---|---|
| TP | Tashi Phuntsho | APNIC | Australia |
| PR | Phurpa Rinchen | Bhutan Telecom | Bhutan |
| PS | Philip Smith | APNIC | Australia |

## Workshop Sessions

| Day | Topic | Inst | Presentations | Exercises |
|---|---|---|---|---|
| **Thursday** | | | | |
| 1 | Introduction & Logistics | All | PDF | |
| | Recap – Internet fundamentals | PS | PDF | |
| 2 | Where are we now: IPv6 deployment update | TP | PDF | |
| | Recap – IPv6 Introduction | PS | PDF | |
| 3 | Recap – IPv6 Protocol | TP | PDF | |
| 4 | Deploying IPv4 and IPv6 Dual Stack network | All | | Network Setup |
| | | | | Lab Access |
| | | | | Address Plan |
| **Friday** | | | | |
| 1 | Recap – About IPv6 Addresses | PS | PDF | |
| 2 | Lab: IPv6 Address Planning | All | | PDF |
| 3 | IPv6 Routing | TP | PDF | |
| 4 | Lab: Setting up IPv4 & IPv6 Routing | All | | Setting up IS-IS |
| **Saturday** | | | | |
| 1 | Internet Security Introduction | TP | PDF | |
| 2 | IPv6 Security Introduction | PS | PDF | |
| 3 | Lab: Setting up IPv4 & IPv6 Routing | All | | Setting up BGP |
| 4 | Lab continued | All | | |

| Day | Topic | Inst | Presentations | Exercises |
|---|---|---|---|---|
| **Sunday** | | | | |
| 1 | IPv6 Transition Technologies | TP | PDF | |
| 2 | IPv6 Deployment Planning | TP | PDF | |
| 3 | Lab: IPv6 End User Deployment: Static | All | | Static |
| | Lab: IPv6 End User Deployment: DHCPv6-PD | All | | DHCPv6-PD |
| 4 | Lab: IPv6 End User Deployment: 6rd | All | | 6rd |
| | IPv6 on Mobile Networks: Telstra Experience | PS | PDF | |
| **Monday** | | | | |
| 1 | Securing the transition mechanisms | PS | PDF | |
| | Hardening IPv6 network devices | TP | PDF | |
| 2 | Securing the Router | All | | Securing the Router |
| | IPv6 Routing Security: Theory | PS | PDF | |
| 3 | IPv6 Routing Security: Securing IS-IS | All | | Securing IS-IS |
| | IPv6 Routing Security: Securing BGP | All | | Securing BGP |
| | IPv6 Security Monitoring | PS | PDF | |
| 4 | IPv6 Security Monitoring: Hands On | All | | Netflow |
| | Summary & Closing | All | | |

## Resources

- Putty for Windows
- Telnet for macOS (10.13 onwards)
- Dynamips configuration

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