# Advanced BGP and Route Origin Validation

## Time Schedule

| | |
|---|---|
| Session 1 | 09:00 - 10:30 |
| Break | 10:30 - 11:00 |
| Session 2 | 11:00 - 12:30 |
| Lunch | 12:30 - 14:00 |
| Session 3 | 14:00 - 15:30 |
| Break | 15:30 - 16:00 |
| Session 4 | 16:00 - 17:30 |

## Instructors

| FL | Name | Organisation | Country |
|---|---|---|---|
| SB | Simon Sohel Baroi | APNIC - APNIC Community Trainer | Bangladesh |
| AS | Aftab Siddiqui | ISOC - Internet Society | Australia |
| PS | Philip Smith | APNIC | Australia |

## Workshop Sessions

| Session | Topic | Inst | Presentations | Exercises | Address Plans |
|---|---|---|---|---|---|
| **Thursday** | | | | | |
| Session 1 | Introductions | PS | PDF | | |
| | Routing Basics | SB | PDF | | |
| Session 2 | Lab Setup | All | | PDF | Address Plan PDF |
| | IS-IS Recap | PS | PDF | | |
| Session 3 | IS-IS Lab | All | | PDF | |
| Session 4 | BGP Recap | SB | PDF | | |
| | iBGP Lab | All | | PDF | |
| **Friday** | | | | | |
| Session 1 | Recap of Thursday | PS | | | |
| | BGP Scaling Techniques | PS | PDF | | |
| Session 2 | Route Reflector Lab (IPv4) | All | | PDF | |
| | BGP Attributes | SB | PDF | | |
| Session 3 | iBGP and eBGP Lab | All | | PDF | Address Plan PDF |
| Session 4 | BGP Policy Control | SB | PDF | | |
| **Saturday** | | | | | |
| Session 1 | Recap of Friday | PS | | | |
| | BGP Route Filtering Lab | All | | PDF | |

| Session | Topic | Inst | Presentations | Exercises | Address Plans |
|---|---|---|---|---|---|
| Session 2 | BGP Multihoming (Part 1) | PS | PDF | | |
| Session 3 | BGP Route Filtering Lab (cont) | All | | | |
| Session 4 | BGP Multihoming (Part 2) | SB | PDF | | |
| **Sunday** | | | | | |
| Session 1 | Recap of Saturday | PS | | | |
| | BGP Route Filtering Lab (cont) | All | | | |
| | OSPF vs IS-IS | SB | PDF | | |
| | OSPF to IS-IS migration | SB | PDF | | |
| Session 2 | BGP Best Practices | AS | PDF | | |
| Session 3 | BGP Policy Lab | All | | PDF | |
| Session 4 | BGP Communities | PS | PDF | | |
| **Monday** | | | | | |
| Session 1 | Recap of Sunday | PS | | | |
| | Introduction to MANRS | AS | PDF | | |
| | Why Routing Security? | PS | PDF | | |
| Session 2 | Creating ROAs | All | | Lab: MyAPNIC or Local Test Environment | |
| | Deploying Validators | All | | NLnetLabs Routinator | |
| | | All | | RIPE NCC Validator | |
| | | All | | OktoRPKI Validator (Cloudflare) | |
| Session 3 | Filtering with ROAs | All | | Lab Topology | |
| Session 4 | Findings: Group Discussion | All | | | |
| | Q&A and Closing | All | | | |

# Resources

- Putty
- Telnet for macOS (10.13 onwards)
- Dynamips NET file

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Last update: **2019/09/09 05:04**