



Routing and Internet Security Operations

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 |
|----|---------|----------------------|------------|
| ZZ | Zed Zed | NSRC | ZedZedland |

Workshop Sessions

| Session | Topic | Inst | Presentations | Exercises |
|------------------|--------------------------|------|---------------------|--|
| Day One | | | | |
| Session 1 | Introduction to RISO | ZZ | PDF | |
| | Lab Setup | | | Lab Setup |
| | | | | Lab Access |
| | | | | Address Plan |
| | Securing the Router | | | Control Plane Security |
| Session 2 | Introduction to IS-IS | | PDF | |
| | IS-IS Setup & Securing | | | IS-IS Lab |
| Session 3 | Introduction to BGP | | PDF | |
| | iBGP Setup & Securing | | | iBGP Lab |
| Day Two | | | | |
| Session 1 | BGP Attributes | | PDF | |
| Session 2 | BGP Policy Control | | PDF | |
| Session 3 | eBGP with Transit | | | eBGP Lab |
| Session 4 | Multihoming Introduction | | PDF | |
| Session 5 | Private Peer | | | Private Peer Lab |
| Session 6 | Multihoming Advanced | | PDF | |
| Day Three | | | | |
| Session 1 | IXP Peering | | | IXP Peering Lab |

| Session | Topic | Inst | Presentations | Exercises |
|-----------------|---|------|---------------------|---|
| Session 2 | BGP Best Practices | | PDF | |
| Session 3 | Peering Policy | | | Peering Policy Lab |
| Session 4 | IXP Bi-Lateral | | | IXP Bilateral Peering Lab |
| Session 5 | Communities | | PDF | |
| | Migrating to Communities | | | Communities Lab |
| Day Four | | | | |
| Session 1 | BGP Security Features | | | Securing BGP Lab |
| Session 2 | RTBH Filtering | | PDF | |
| | Local RTBH Lab | | | Local RTBH Lab |
| | Inter-AS RTBH Lab | | | Inter-AS RTBH Lab |
| Session 3 | Unicast Reverse Path Forwarding | | | uRPF Lab |
| Day Five | | | | |
| Session 1 | BGP Origin Validation | | PDF | |
| | Installing Validator Cache | | | Validator Lab |
| | Configuring RPKI | | | RPKI Lab |
| | Route Origin Validation Lab | | | ROV Lab |
| Session 2 | Troubleshooting BGP Security Operations | | PDF | |
| | BGP Troubleshooting Lab | | | Troubleshooting Lab |
| Session 3 | OSPF vs IS-IS | | PDF | |
| | OSPF to IS-IS migration | | PDF | |
| | Q&A and Closing | | | |

Resources

- [Putty](#)
- [Telnet](#) for macOS (10.13 onwards)

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From: <https://bgp4all.com.au/pfs/> - Philip Smith's Internet Development Site

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