



# 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 | <a href="#">NSRC</a> | Zedland |

## Workshop Sessions

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

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

## Resources

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

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

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