



# Introduction to Routing

## Time Schedule

|           |        |
|-----------|--------|
| Session 1 | 1 hour |
| Break     |        |
| Session 2 | 1 hour |
| Lunch     |        |
| Session 3 | 1 hour |
| Break     |        |
| Session 4 | 1 hour |

## Instructors

| FL | Name         | Organisation                     | Country   |
|----|--------------|----------------------------------|-----------|
| PS | Philip Smith | PFS Internet Development Pty Ltd | Australia |

## Workshop Sessions

| Session          | Topic                      | Inst | Presentations       | Exercises           | Address Plans                    |
|------------------|----------------------------|------|---------------------|---------------------|----------------------------------|
| <b>Day One</b>   |                            |      |                     |                     |                                  |
| Session 1        | Introductions              | PS   | <a href="#">PDF</a> |                     |                                  |
|                  | Routing Basics             | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 2        | Introduction to OSPF       | PS   | <a href="#">PDF</a> |                     |                                  |
|                  | OSPF for ISPs (overview)   | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 3        | Comparing OSPF and IS-IS   | PS   | <a href="#">PDF</a> |                     |                                  |
|                  | Lab Setup                  | All  |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
| Session 4        | OSPF Lab                   | All  |                     | <a href="#">PDF</a> |                                  |
| <b>Day Two</b>   |                            |      |                     |                     |                                  |
| Session 1        | Recap of Day One           | PS   |                     |                     |                                  |
|                  | Introduction to BGP        | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 2        | Lab Introduction           | PS   |                     |                     |                                  |
|                  | iBGP Lab                   | All  |                     | <a href="#">PDF</a> |                                  |
| Session 3        | BGP Attributes             | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 4        | BGP Scaling Techniques     | PS   | <a href="#">PDF</a> |                     |                                  |
|                  | Lab Introduction           | PS   |                     |                     |                                  |
|                  | Route Reflector Lab (IPv4) | All  |                     | <a href="#">PDF</a> |                                  |
| <b>Day Three</b> |                            |      |                     |                     |                                  |
| Session 1        | Recap of Day Two           | PS   |                     |                     |                                  |
|                  | BGP Policy Control         | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 2        | BGP Best Practices         | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 3        | BGP Best Practices (cont)  | PS   |                     |                     |                                  |
| Session 4        | Lab Introduction           | PS   |                     |                     |                                  |

| Session         | Topic                             | Inst | Presentations       | Exercises           | Address Plans                    |
|-----------------|-----------------------------------|------|---------------------|---------------------|----------------------------------|
|                 | iBGP and eBGP Lab                 | All  |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
| <b>Day Four</b> |                                   |      |                     |                     |                                  |
| Session 1       | Recap of Day Three                | PS   |                     |                     |                                  |
|                 | Multihoming: Introduction         | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 2       | Multihoming: Inbound TE           | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 3       | Multihoming: Outbound TE          | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 4       | BGP Route Filtering Lab           | All  |                     | <a href="#">PDF</a> |                                  |
| <b>Day Five</b> |                                   |      |                     |                     |                                  |
| Session 1       | Recap of Day Four                 | PS   |                     |                     |                                  |
|                 | Multihoming: Deployment           | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 2       | Multihoming: Deployment (cont)    | All  |                     |                     |                                  |
| Session 3       | Multihoming Strategies Lab        | All  |                     | <a href="#">PDF</a> |                                  |
| Session 4       | Multihoming Strategies Lab (cont) | All  |                     |                     |                                  |
| <b>Day Six</b>  |                                   |      |                     |                     |                                  |
| Session 1       | Recap of Day Five                 | PS   |                     |                     |                                  |
|                 | BGP Communities                   | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 2       | Troubleshooting BGP               | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 3       | Troubleshooting BGP (cont)        | PS   |                     |                     |                                  |
| Session 4       | Round Table, Q&A and Closing      | All  |                     |                     |                                  |

## Resources

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