



# Introduction to Routing

## 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    |
|----|----------------|---|------------|
| ZK | Md Zobair Khan | <a href="#">APNIC</a> - APNIC Community Trainer | Bangladesh |
| PS | Philip Smith   | <a href="#">APNIC</a>                           | Australia  |

## Workshop Sessions

| Session         | Topic                        | Inst | Presentations       | Exercises           | Address Plans                    |
|-----------------|------------------------------|------|---------------------|---------------------|----------------------------------|
| <b>Saturday</b> |                              |      |                     |                     |                                  |
| Session 1       | Introductions                | PS   | <a href="#">PDF</a> |                     |                                  |
|                 | Routing Basics               |      | <a href="#">PDF</a> |                     |                                  |
| Session 2       | Lab Setup                    | All  |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
|                 | Introduction to IPv6         |      | <a href="#">PDF</a> |                     |                                  |
| Session 3       | IPv6 Standards and Protocols |      | <a href="#">PDF</a> |                     |                                  |
| Session 4       | IPv6 Lab Setup               | All  |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
| <b>Sunday</b>   |                              |      |                     |                     |                                  |
| Session 1       | IPv6 Addressing              |      | <a href="#">PDF</a> |                     |                                  |
|                 | IPv6 Addressing Lab          | All  |                     | <a href="#">PDF</a> |                                  |
| Session 2       | Introduction to IS-IS        |      | <a href="#">PDF</a> |                     |                                  |
|                 | IS-IS Lab                    | All  |                     | <a href="#">PDF</a> |                                  |
| Session 3       | IPv6 Routing Protocols       |      | <a href="#">PDF</a> |                     |                                  |
|                 | ISIS for IPv6                |      | <a href="#">PDF</a> |                     |                                  |
| Session 4       | IPv6 ISIS Lab                | All  |                     | <a href="#">PDF</a> |                                  |
|                 | Introduction to BGP          |      | <a href="#">PDF</a> |                     |                                  |
| <b>Monday</b>   |                              |      |                     |                     |                                  |
| Session 1       | iBGP Lab                     | All  |                     | <a href="#">PDF</a> |                                  |
|                 | BGP for IPv6                 |      | <a href="#">PDF</a> |                     |                                  |

| Session          | Topic                        | Inst | Presentations                     | Exercises           | Address Plans                    |
|------------------|------------------------------|------|-----------------------------------|---------------------|----------------------------------|
| Session 2        | IPv6 iBGP Lab                | All  |                                   | <a href="#">PDF</a> |                                  |
|                  | BGP Scaling Techniques       |      | <a href="#">PDF</a>               |                     |                                  |
| Session 3        | Route Reflector Lab (IPv4)   | All  |                                   | <a href="#">PDF</a> |                                  |
|                  | Route Reflector Lab (IPv6)   | All  |                                   | <a href="#">PDF</a> |                                  |
| Session 4        | IPv6 Transition Planning     |      | <a href="#">PDF</a>               |                     |                                  |
| <b>Tuesday</b>   |                              |      |                                   |                     |                                  |
| Session 1        | BGP Attributes               |      | <a href="#">PDF</a>               |                     |                                  |
| Session 2        | iBGP and eBGP Lab            | All  |                                   | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
| Session 3        | IPv6 iBGP and eBGP Lab       | All  |                                   | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
| Session 4        | BGP Best Practices           |      | <a href="#">PDF</a>               |                     |                                  |
| <b>Wednesday</b> |                              |      |                                   |                     |                                  |
| Session 1        | BGP Policy Control           |      | <a href="#">PDF</a>               |                     |                                  |
| Session 2        | BGP Route Filtering Lab      | All  |                                   | <a href="#">PDF</a> |                                  |
| Session 3        | IPv6 BGP Route Filtering Lab | All  |                                   | <a href="#">PDF</a> |                                  |
| Session 4        | OSPF vs IS-IS                |      | <a href="#">PDF</a>               |                     |                                  |
|                  | OSPF to IS-IS migration      |      | <a href="#">PDF</a>               |                     |                                  |
|                  | Configuring Dynamips         |      | <a href="#">Dynamips NET file</a> |                     |                                  |
|                  | Q&A and Closing              | All  |                                   |                     |                                  |

## Resources

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

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

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