



# IPv4 and IPv6 Routing Workshop

## Time Schedule

|                 |               |
|-----------------|---------------|
| Session 1       | 09:00 - 10:30 |
| Break           | 10:30 - 11:00 |
| Session 2       | 11:00 - 12:30 |
| Lunch - Offsite | 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    |
|----|-------------------|-----------------------------|------------|
| JP | Jordi Palet       | <a href="#">Consulintel</a> | Spain      |
| SB | Simon Sohel Baroi | <a href="#">Fiber@Home</a>  | Bangladesh |
| PS | Philip Smith      | <a href="#">APNIC</a>       | Australia  |

## Workshop Sessions

| Session         | Topic                        | Inst  | Presentations       | Exercises           | Address Plans                    |
|-----------------|------------------------------|-------|---------------------|---------------------|----------------------------------|
| <b>Thursday</b> |                              |       |                     |                     |                                  |
| Session 1       | Introductions                | PS    | <a href="#">PDF</a> |                     |                                  |
|                 | Routing Basics               | SB    | <a href="#">PDF</a> |                     |                                  |
| Session 2       | Lab Setup                    | PS/SB |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
|                 | Introduction to IPv6         | PS    | <a href="#">PDF</a> |                     |                                  |
| Session 3       | IPv6 Standards and Protocols | PS    | <a href="#">PDF</a> |                     |                                  |
| Session 4       | IPv6 Lab Setup               | PS/SB |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
|                 | Introduction to IS-IS        | SB    | <a href="#">PDF</a> |                     |                                  |
| <b>Friday</b>   |                              |       |                     |                     |                                  |
| Session 1       | IPv6 Addressing              | PS    | <a href="#">PDF</a> |                     |                                  |
| Session 2       | IPv6 Addressing Lab          | PS/SB |                     | <a href="#">PDF</a> |                                  |
|                 | IS-IS Lab                    | PS/SB |                     | <a href="#">PDF</a> |                                  |
| Session 3       | IPv6 Routing Protocols       | PS    | <a href="#">PDF</a> |                     |                                  |
|                 | IS-IS for IPv6               | PS    | <a href="#">PDF</a> |                     |                                  |

| Session         | Topic                               | Inst  | Presentations       | Exercises           | Address Plans                    |
|-----------------|-------------------------------------|-------|---------------------|---------------------|----------------------------------|
| Session 4       | IPv6 IS-IS Lab                      | PS/SB |                     | <a href="#">PDF</a> |                                  |
|                 | Introduction to BGP                 | SB    | <a href="#">PDF</a> |                     |                                  |
|                 | iBGP Lab                            | PS/SB |                     | <a href="#">PDF</a> |                                  |
| <b>Saturday</b> |                                     |       |                     |                     |                                  |
| Session 1       | BGP for IPv6                        | PS    | <a href="#">PDF</a> |                     |                                  |
|                 | IPv6 iBGP Lab                       | PS/SB |                     | <a href="#">PDF</a> |                                  |
| Session 2       | BGP Scaling Techniques              | PS    | <a href="#">PDF</a> |                     |                                  |
|                 | Route Reflector Lab (IPv4)          | PS/SB |                     | <a href="#">PDF</a> |                                  |
|                 | Route Reflector Lab (IPv6)          | PS/SB |                     | <a href="#">PDF</a> |                                  |
| Session 3       | iBGP and eBGP Lab                   | PS/SB |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
|                 | BGP Attributes                      | SB    | <a href="#">PDF</a> |                     |                                  |
| Session 4       | IPv6 iBGP and eBGP Lab              | PS/SB |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
| <b>Sunday</b>   |                                     |       |                     |                     |                                  |
| Session 1       | Stateless Address Autoconfiguration | JP    | <a href="#">PDF</a> | <a href="#">PDF</a> |                                  |
| Session 2       | DHCPv6                              | JP    | <a href="#">PDF</a> | <a href="#">PDF</a> |                                  |
| Session 3       | IPv6 Transition Technologies        | JP    |                     | <a href="#">PDF</a> |                                  |
| Session 4       | NAT64/DNS64/464XLAT Lab             | JP    |                     | <a href="#">PDF</a> |                                  |
| <b>Monday</b>   |                                     |       |                     |                     |                                  |
| Session 1       | BIND9 and Apache for IPv6           | JP    | <a href="#">PDF</a> | <a href="#">PDF</a> |                                  |
| Session 2       | IPv6 Deployment                     | JP    | <a href="#">PDF</a> |                     |                                  |
| Session 3       | IPv6 on Mobile Networks             | JP    | <a href="#">PDF</a> |                     |                                  |
| Session 4       | OSPF vs ISIS                        | SB    | <a href="#">PDF</a> |                     |                                  |
|                 | OSPF to ISIS migration              | PS    | <a href="#">PDF</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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