



# Advanced BGP and Route Origin Validation

## 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    |
|----|-------------------|---|------------|
| SB | Simon Sohel Baroi | <a href="#">APNIC</a> - APNIC Community Trainer | Bangladesh |
| AS | Aftab Siddiqui    | <a href="#">ISOC</a> - Internet Society         | Australia  |
| 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                  | All  |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
|                 | IS-IS Recap                | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 3       | IS-IS Lab                  | All  |                     | <a href="#">PDF</a> |                                  |
| Session 4       | BGP Recap                  | SB   | <a href="#">PDF</a> |                     |                                  |
|                 | iBGP Lab                   | All  |                     | <a href="#">PDF</a> |                                  |
| <b>Friday</b>   |                            |      |                     |                     |                                  |
| Session 1       | Recap of Thursday          | PS   |                     |                     |                                  |
|                 | BGP Scaling Techniques     | PS   | <a href="#">PDF</a> |                     |                                  |
| Session 2       | Route Reflector Lab (IPv4) | All  |                     | <a href="#">PDF</a> |                                  |
|                 | BGP Attributes             | SB   | <a href="#">PDF</a> |                     |                                  |
| Session 3       | iBGP and eBGP Lab          | All  |                     | <a href="#">PDF</a> | <a href="#">Address Plan PDF</a> |
| Session 4       | BGP Policy Control         | SB   | <a href="#">PDF</a> |                     |                                  |

| Session         | Topic                          | Inst | Presentations | Exercises | Address Plans |
|-----------------|--------------------------------|------|---------------|-----------|---------------|
| <b>Saturday</b> |                                |      |               |           |               |
| Session 1       | Recap of Friday                | PS   |               |           |               |
|                 | BGP Route Filtering Lab        | All  |               | PDF       |               |
| Session 2       | BGP Multihoming (Part 1)       | PS   | PDF           |           |               |
| Session 3       | BGP Route Filtering Lab (cont) | All  |               |           |               |
| Session 4       | BGP Multihoming (Part 2)       | SB   | PDF           |           |               |
| <b>Sunday</b>   |                                |      |               |           |               |
| Session 1       | Recap of Saturday              | PS   |               |           |               |
|                 | BGP Route Filtering Lab (cont) | All  |               |           |               |
|                 | OSPF vs IS-IS                  | SB   | PDF           |           |               |
|                 | OSPF to IS-IS migration        | SB   | PDF           |           |               |
| Session 2       | BGP Best Practices             | AS   | PDF           |           |               |
| Session 3       | BGP Policy Lab                 | All  |               | PDF       |               |
| Session 4       | BGP Communities                | PS   | PDF           |           |               |
| <b>Monday</b>   |                                |      |               |           |               |
| Session 1       | Recap of Sunday                | PS   |               |           |               |
|                 | Introduction to MANRS          | AS   |               |           |               |
|                 | Why Routing Security?          | PS   | PDF           |           |               |
| Session 2       | Creating ROAs                  | All  |               | Lab       |               |
|                 | Deploying Validators           | All  |               | Lab       |               |
| Session 3       | Filtering with ROAs            | All  |               | Lab       |               |
| Session 4       | Findings: Group Discussion     | All  |               |           |               |
|                 | Q&A and Closing                | All  |               |           |               |

## Resources

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

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