



# 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

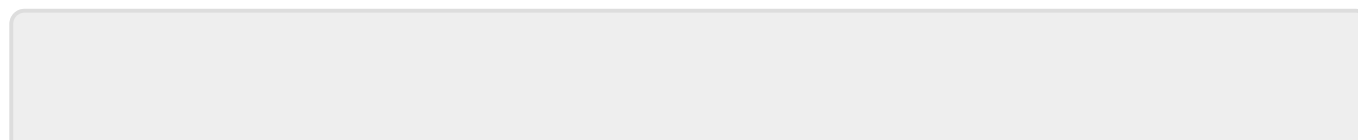
Session	Topic	Inst	Presentations	Exercises	Address Plans
<b>Thursday</b>					
Session 1	Introductions	PS	<a href="#">PDF</a>		
	Routing Basics	SB	<a href="#">PDF</a>		
Session 2	Lab Setup	All		<a href="#">PDF</a>	<a href="#">Address Plan PDF</a>
	IS-IS Recap	PS	<a href="#">PDF</a>		
Session 3	IS-IS Lab	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	Topic	Inst	Presentations	Exercises	Address Plans
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>		
<b>Saturday</b>					
Session 1	Recap of Friday	PS			
	BGP Route Filtering Lab	All		<a href="#">PDF</a>	
Session 2	BGP Multihoming (Part 1)	PS	<a href="#">PDF</a>		
Session 3	BGP Route Filtering Lab (cont)	All			
Session 4	BGP Multihoming (Part 2)	SB	<a href="#">PDF</a>		
<b>Sunday</b>					
Session 1	Recap of Saturday	PS			
	BGP Route Filtering Lab (cont)	All			
	OSPF vs IS-IS	SB	<a href="#">PDF</a>		
	OSPF to IS-IS migration	SB	<a href="#">PDF</a>		
Session 2	BGP Best Practices	AS	<a href="#">PDF</a>		
Session 3	BGP Policy Lab	All		<a href="#">PDF</a>	
Session 4	BGP Communities	PS	<a href="#">PDF</a>		
<b>Monday</b>					
Session 1	Recap of Sunday	PS			
	Introduction to MANRS	AS	<a href="#">PDF</a>		
	Why Routing Security?	PS	<a href="#">PDF</a>		
Session 2	Creating ROAs	All		Lab: MyAPNIC or Local Test Environment	
	Deploying Validators	All		<a href="#">NLnetLabs Routinator</a>	
		All		<a href="#">RIPE NCC Validator</a>	
		All		<a href="#">OctoRPKI Validator (Cloudflare)</a>	
Session 3	Filtering with ROAs	All		<a href="#">Lab Topology</a>	
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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