

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	APNIC - APNIC Community Trainer	Bangladesh
AS	Aftab Siddiqui	ISOC - Internet Society	Australia
PS	Philip Smith	APNIC	Australia

Workshop Sessions

Session	Topic	Inst	Presentations	Exercises	Address Plans
Thursday					
Session 1	Introductions	PS	PDF		
	Routing Basics	SB	PDF		
Session 2	Lab Setup	All		PDF	Address Plan PDF
	IS-IS Recap	PS	PDF		
Session 3	IS-IS Lab	All		PDF	
Session 4	BGP Recap	SB	PDF		
	iBGP Lab	All		PDF	
Friday					
Session 1	Recap of Thursday	PS			
	BGP Scaling Techniques	PS	PDF		
Session 2	Route Reflector Lab (IPv4)	All		PDF	
	BGP Attributes	SB	PDF		

Session	Topic	Inst	Presentations	Exercises	Address Plans
Session 3	iBGP and eBGP Lab	All		PDF	Address Plan PDF
Session 4	BGP Policy Control	SB	PDF		
Saturday					
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		
Sunday					
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		
Monday					
Session 1	Recap of Sunday	PS			
	Introduction to MANRS	AS	PDF		
	Why Routing Security?	PS	PDF		
Session 2	Creating ROAs	All		Lab: MyAPNIC or Local Test Environment	
	Deploying Validators	All		NLnetLabs Routinator	
		All		RIPE NCC Validator	
		All		OktoRPKI Validator (Cloudflare)	
Session 3	Filtering with ROAs	All		Lab Topology	
Session 4	Findings: Group Discussion	All			
	Q&A and Closing	All			

Resources

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

Back to Home page

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