Routing and Internet Security Operations

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
ZZ	Zed Zed	NSRC	Zedland

Workshop Sessions

Session	Topic	Inst	Presentations	Exercises
Day One				
Session 1	Introduction to RISO	ZZ	PDF	
	Lab Setup	All		Lab Setup
		All		Lab Access
		All		Address Plan
	Securing the Router			Control Plane Security
Session 2	Introduction to IS-IS		PDF	
	IS-IS Setup & Securing			IS-IS Lab
Session 3	Introduction to BGP		PDF	
	iBGP Setup & Securing			iBGP Lab
Day Two				
Session 1	BGP Attributes		PDF	
Session 2	BGP Policy Control		PDF	
Session 3	eBGP with Transit	All		eBGP Lab
Session 4	Multihoming Introduction		PDF	
Session 5	Private Peer	All		Private Peer Lab
Session 6	Multihoming Advanced		PDF	
Day Three				
Session 1	IXP Peering	All		IXP Peering Lab

Session	Topic	Inst	Presentations	Exercises
Session 2	BGP Best Practices		PDF	
Session 3	Peering Policy	All		Peering Policy Lab
Session 4	IXP Bi-Lateral	All		IXP Bilateral Peering Lab
Session 5	Communities		PDF	
	Migrating to Communities			Communities Lab
Day Four				
Session 1	BGP Security Features			Securing BGP Lab
Session 2	RTBH Filtering		PDF	
	Local RTBH Lab			Local RTBH Lab
	Inter-AS RTBH Lab			Inter-AS RTBH Lab
Session 3	Unicast Reverse Path Forwarding			uRPF Lab
Day Five				
Session 1	BGP Origin Validation		PDF	
	Installing Validator Cache			Validator Lab
	Configuring RPKI			RPKI Lab
	Route Origin Validation Lab			ROV Lab
Session 2	Troubleshooting BGP Security Operations		PDF	
	BGP Troubleshooting Lab			Troubleshooting Lab
Session 3	OSPF vs IS-IS		PDF	
	OSPF to IS-IS migration		PDF	
	Q&A and Closing	All		

Resources

- Putty
- Telnet for macOS (10.13 onwards)

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