



# 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	<a href="#">NSRC</a>	Zedland

## Workshop Sessions

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

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

## Resources

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

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From: <https://www.bgp4all.com/pfs/> - Philip Smith's Internet Development Site

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