

# IXP Manager & Route Servers



**Route Servers Video Tutorial Series - Part 3**

**Barry O'Donovan - [@barryo79](#), June 2021**

# **Deploying Route Servers with IXP Manager**

# Summary of Parts 1 & 2

- We know what route servers are and why they are needed
- We have an understanding of why they need to be secure
- We have seen how IXP Manager generates configuration
- We've examined the basic structure of that config
- We've examined a client configuration
  - Examined import rules and internal tagging
  - Examined standard route server communities
  - Basic understanding of Bird topology
- And we have a working route server configuration!

# Demonstration System

- VirtualBox on my own laptop
- Ubuntu 20.04 VM for IXP Manager (inc. database, etc)
- Ubuntu 20.04 VM for a route server
- 3 x Ubuntu 20.04 VMs for route server clients

# Build a Route Server in ~10 Minutes

- `apt install bird2`
- Download IXP Manager's [reconfiguration script](#)
- Edit to add URL and API key
- Execute

What are skipping?

- Full commissioning should include:
  - Firewall, monitoring, documentation, ...

# Demonstration

- Build the route server
- Show clients connected and routes
- IPv6 instance
- Looking glass
- Community filtering
- IRRDB filtering
- RPKI filtering

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# Coming in Part 4:

# Looking Glass

and

# Community Filtering



# Thanks for watching!

- <https://www.ixpmanager.org/>
- <https://docs.ixpmanager.org/>
- <https://www.barryodonovan.com/>
- [@barryo79](https://twitter.com/barryo79) on Twitter
- [barry.odonovan@inex.ie](mailto:barry.odonovan@inex.ie)