

NANOG 70 Hackathon

## **RUNNERS-UP PRESENTATIONS**

- OPENBMP CONTROLLER
- IXMON

# OPENBMP CONTROLLER

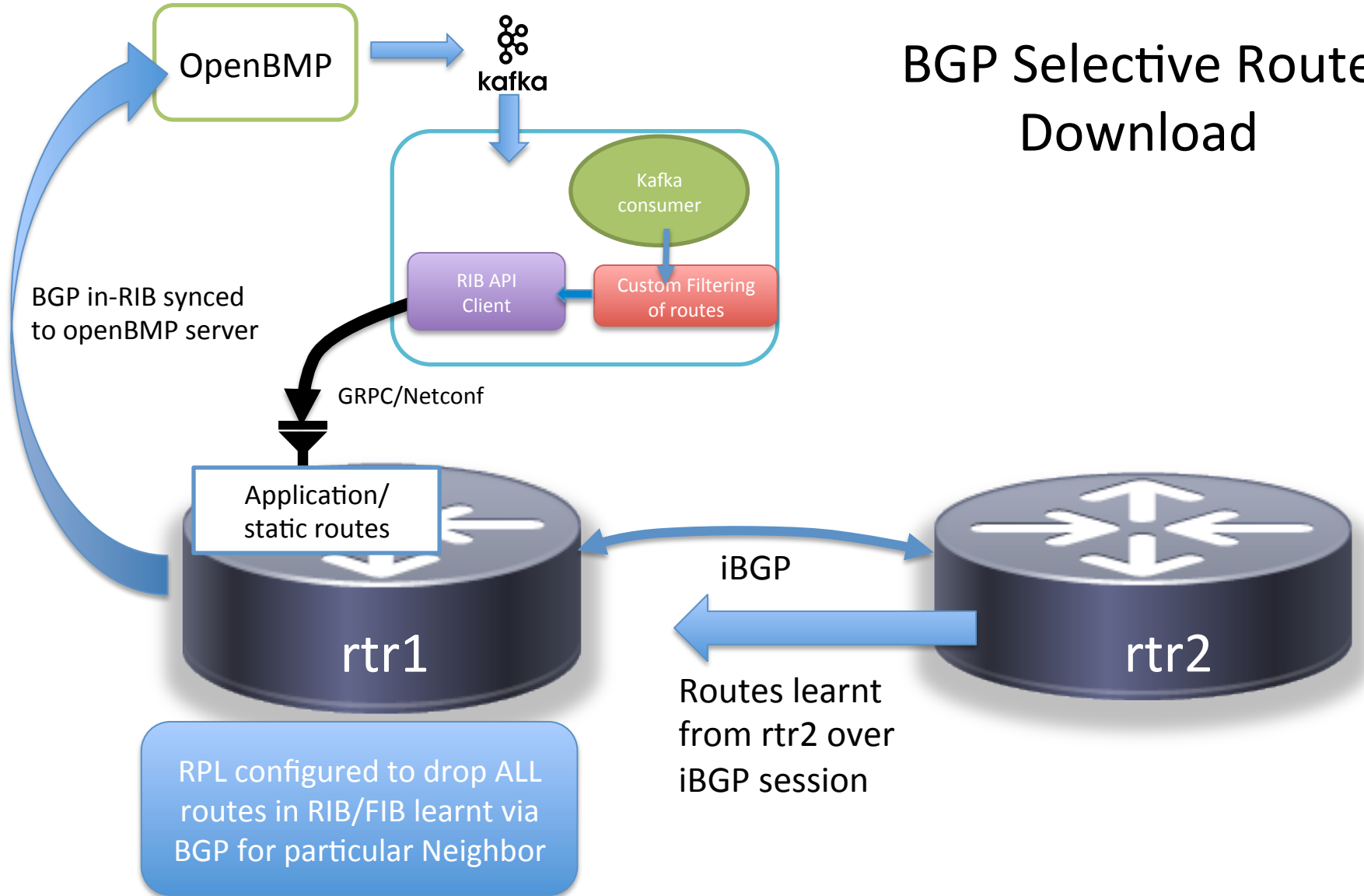
- Save TCAM space!
- Create off-box programmable route policies!
- Implement custom path selection algorithms!

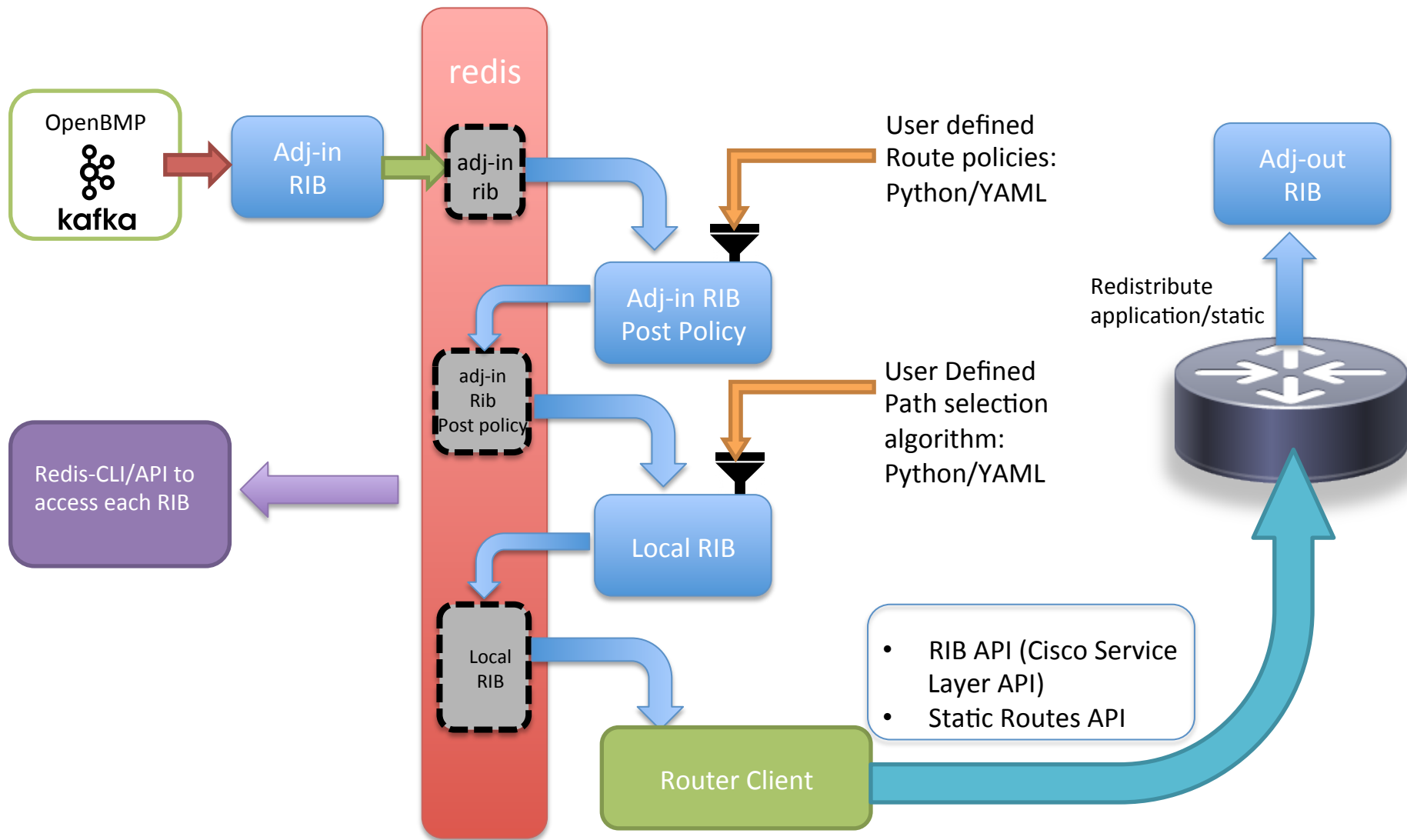
# OpenBMP Hackathon Group!

- Akshat Sharma : Cisco
- Mike Korshunov: Cisco
- Garegin Grigoryan :  
Clarkson University
- Anup Javdekar: Google
- Palak Mehta: Facebook
- Rupesh Patro : Microsoft
- Yaoqing Liu: Clarkson  
University



# BGP Selective Route Download





# Contributions Welcome!

<https://github.com/akshshar/openbmp-controller>

# IXmon



By Tbl9

NANOG 70 - June 6th 2017

# Team

- Sumeet
- Paul
- Marc
- Matt
- Chris
- Me

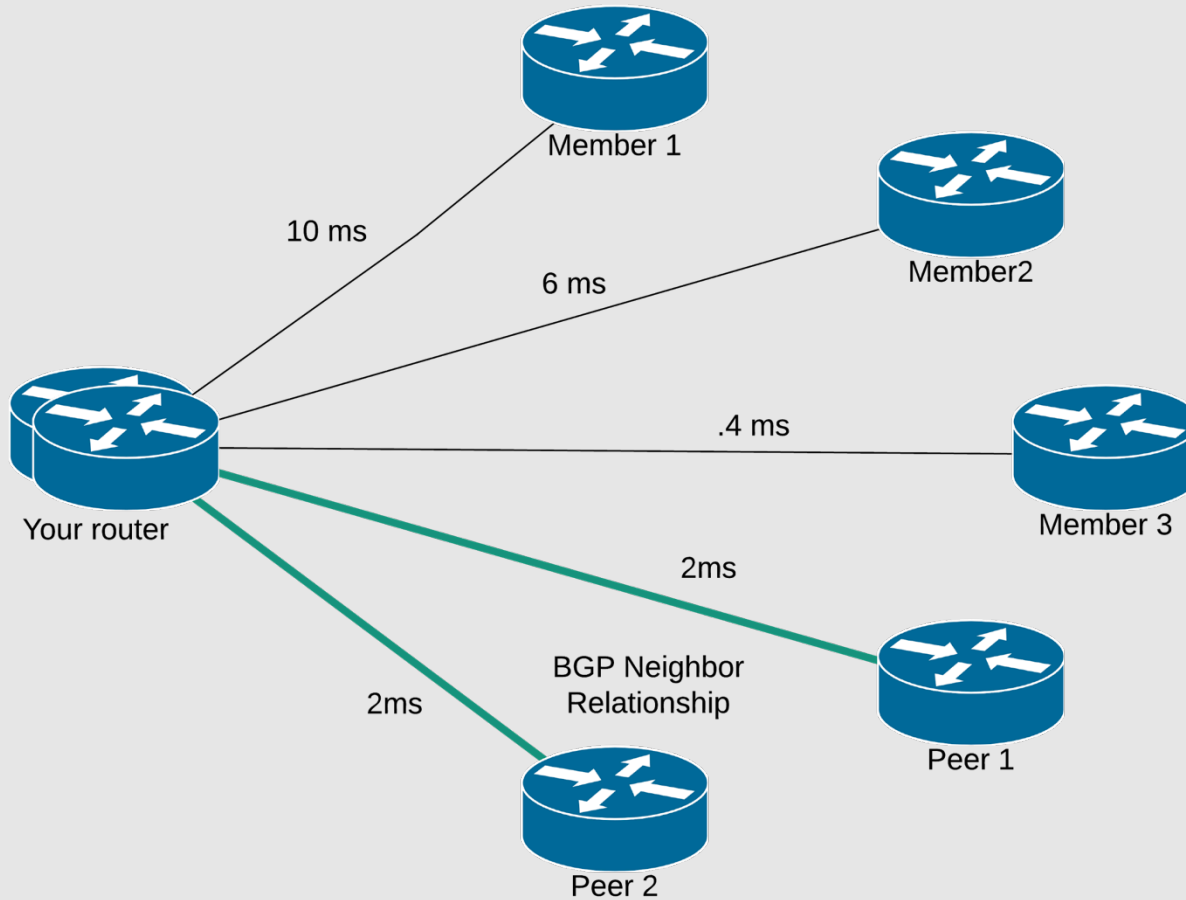




# What did we want to do?

- Test connectivity to members on an IX
- Find IX locations where ASN's have equipment but do not have a neighbor

# Testing Connectivity to others in the IX



# Testing Connectivity to others in the IX

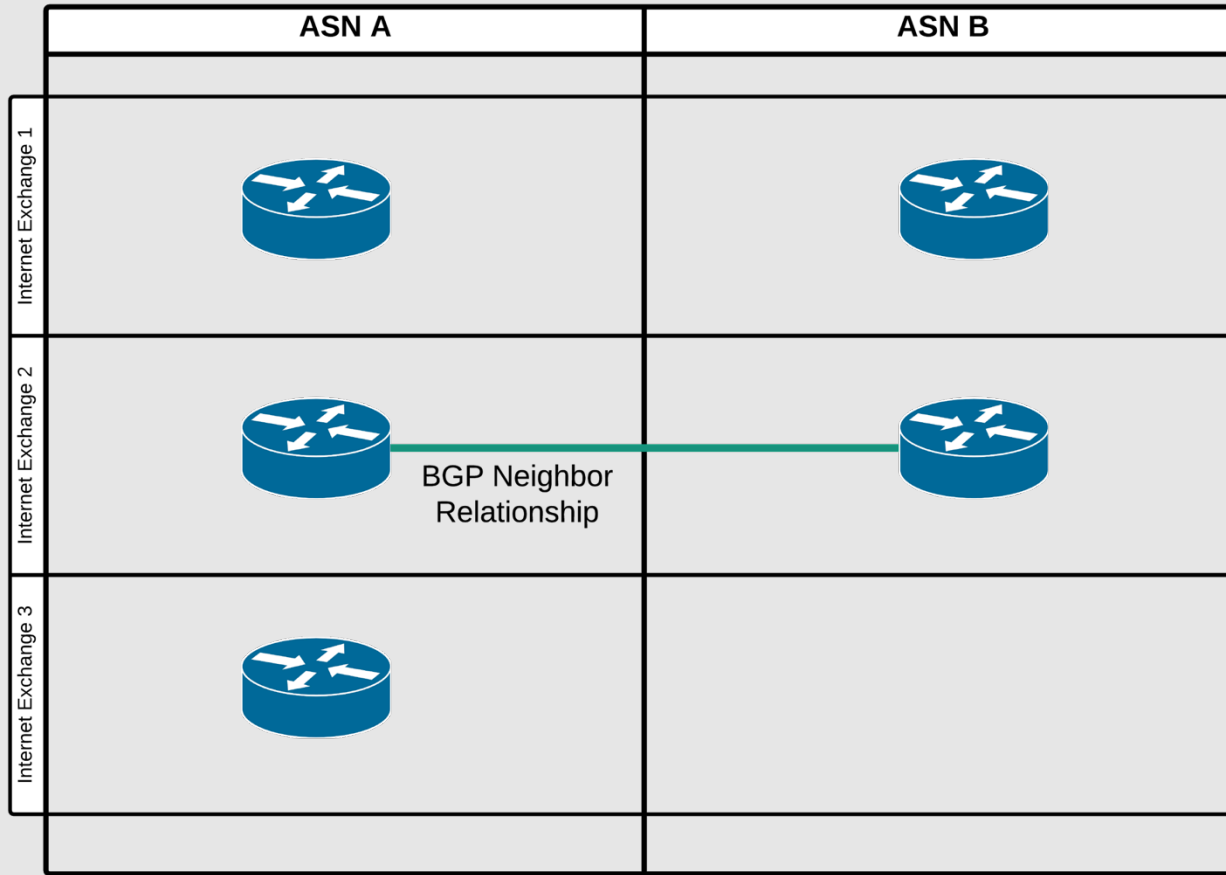
Things that are working:

- Source a ping from a Juniper router
- Putting the result into a database

Things to do:

- Build an interface for reviewing ping output
  - Automatic querying of PeeringDB to find other members on the exchange
  - Add handling for other vendors
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Find IX locations where ASN's  
have equipment but do not have  
a neighbor



# Find IX locations where ASN's have equipment but do not have a neighbor

Things that are working:

- Query an Arista and Juniper router to receive neighbors
- Find ASN peering locations from PeeringDB
- Showing locations without neighbors

Things to do:

- Maybe make a web app

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# Where to next?

1. Code clean-up
2. Complete our to-do's
3. ???????
4. Profit!

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# What can you do?

Fork or Join the group:

- [github.com/Tbl9/ixmon](https://github.com/Tbl9/ixmon)

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