# Integrating multiple data sources

for the efficient Peering Coordinator

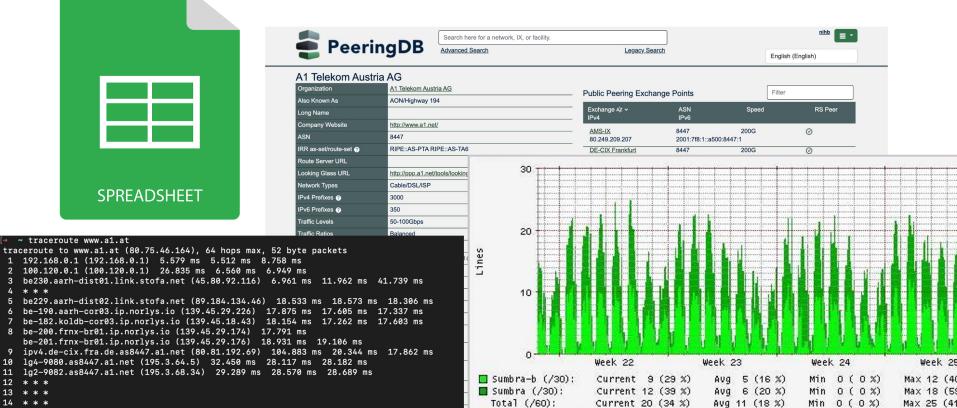


Nina Bargisen Technical Evangelist

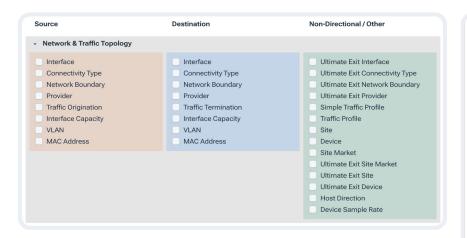
# What is the most common tools for the peering coordinator?



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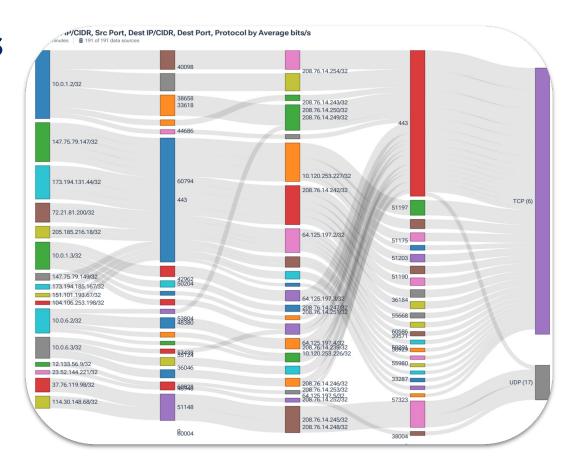
#### Adding NetFlow is a good step





### **IP Addresses, Ports And Protocols Are Not Enough**

- It is awesome to see what traffic is flowing on the network.
- But what does any of this mean in terms or users, content, or network costs?



#### **Telemetry Enrichment**

#### Enrichment with metadata provides context



Geo-locationThreat feedsTransit costsBGP table informationPod namesPublic BGP dataPeeringDB informationIPAMOTT service nameApplication identifiersProcess IDsCDN namesDNS informationSynthetic test resultsCustomer names

#### **Telemetry Enrichment**

#### Enrichment with metadata provides context

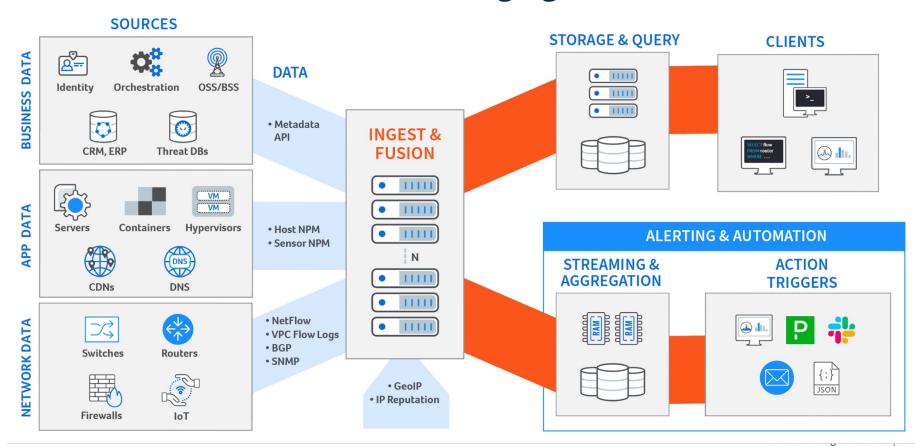


Geo-location	Threat feeds	Transit costs
BGP table information	Pod names	Public BGP data
Peering DB information	IPAM	OTT service name
Application identifiers	Process IDs	CDN names
DNS information	Synthetic test results	<b>Customer names</b>

#### **But how?**

- There is no single source of truth
- The data exists but is spread across numerous sources
- Automation can pull this data together
- Using APIs, push it into a network observability platform that can enrich the network traffic

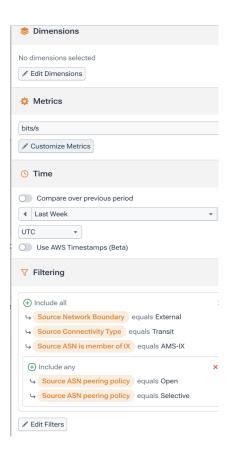
#### **Best Practices for Leveraging Contextual Data**

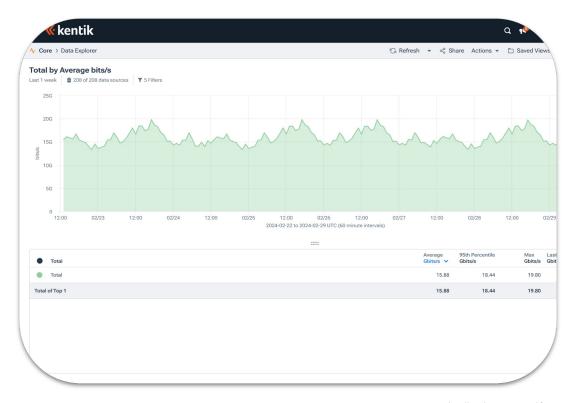


### **Results**

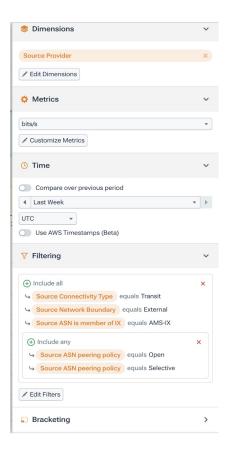
Do we use our IX port well?

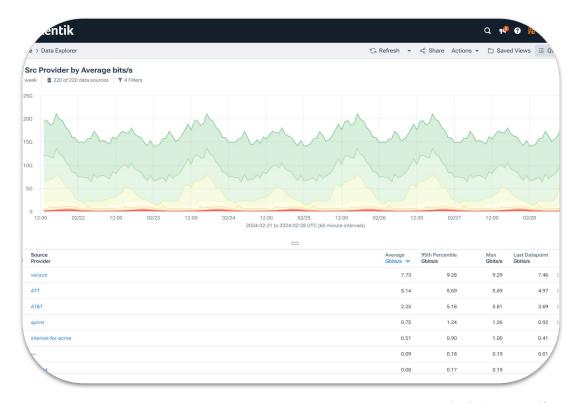
#### How much traffic on transit to AMS-IX members?



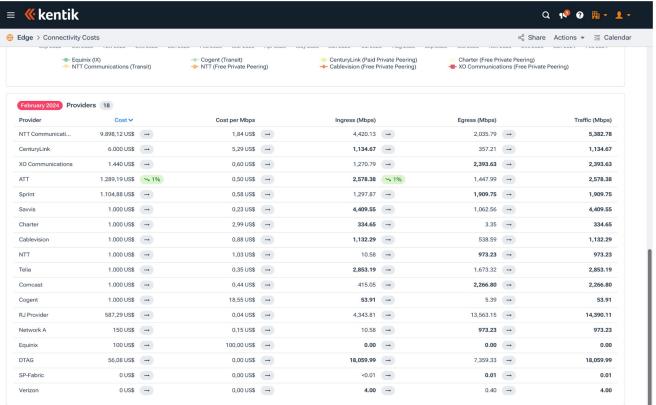


#### Which transit providers?

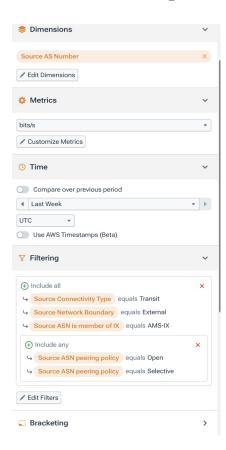


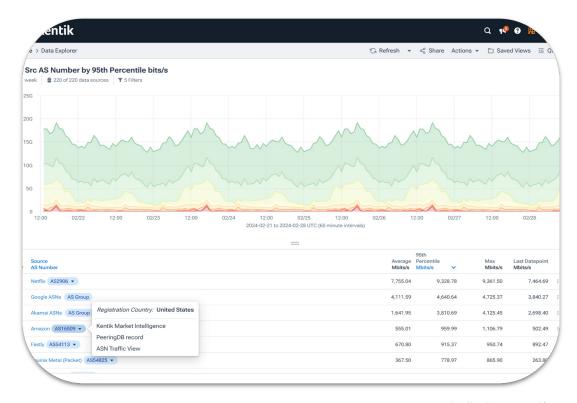


#### **Transit cost**



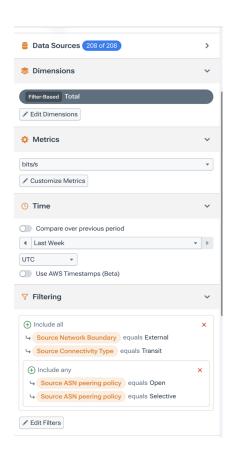
#### Which new peers?

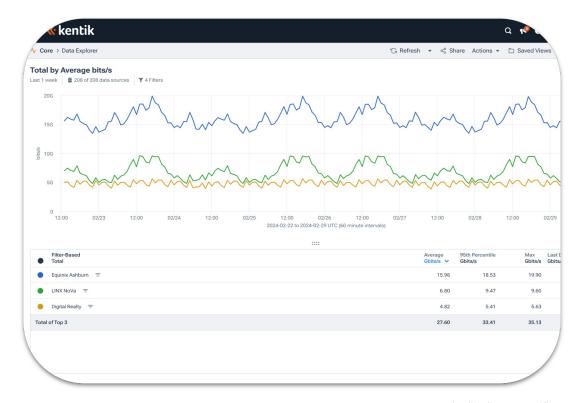




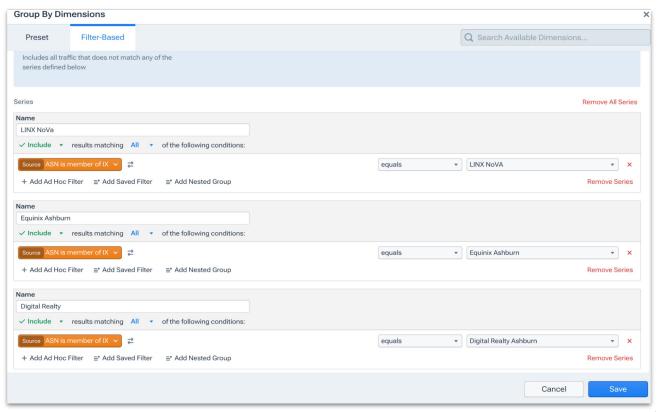
If we build in Ashburn, which IX would we join?

#### How much traffic do we send to members of each?



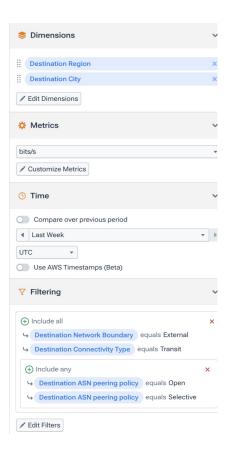


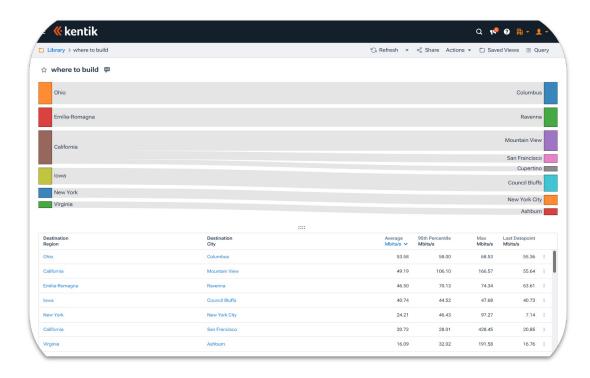
#### **Filters to dimensions**



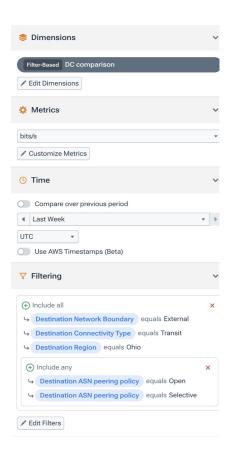
# Where should we build next?

#### Where does the transit traffic go?



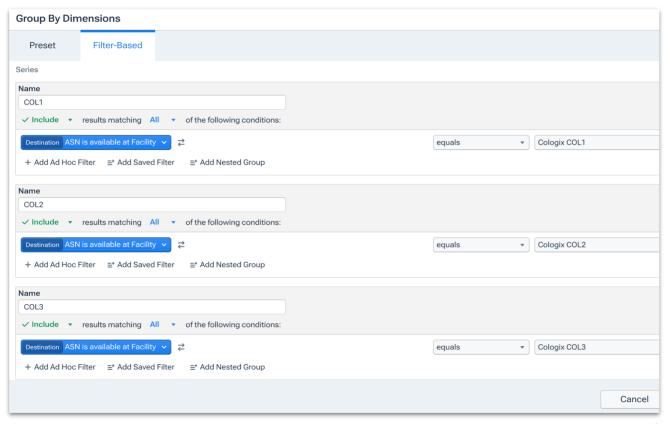


#### Which Data Center to build in?





#### **Filters to dimensions**



#### **Big Shout OUT**

To the team and the community for creating and maintaining

## **PeeringDB**

#### There is a talk from PeeringDB already

But let us call out

- Support the team
- Keep your records updated
- Bring in your ideas for improvements to the team

#### Enriched data is a way to create efficient workflows

The data shared from the community is valuable Imagine what else we could share and use?

# Thank you!

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