

# Team Cymru Community Services



#### Presenter: Brian Davenport

- Solutions Engineer with Team Cymru, supporting community services.
- Training, Configuration, Demo's whatever you need!
- Contact Info :
  - Email: <u>bdavenport@cymru.com</u>
  - LinkedIn: <a href="https://www.linkedin.com/in/briandavenport1/">https://www.linkedin.com/in/briandavenport1/</a>
  - Calendar: <a href="https://calendly.com/bdavenport-3">https://calendly.com/bdavenport-3</a>



#### Team Cymru (pronounced come-ree)



#### Founded in 2005

#### Mission:

To save and improve human lives.

- Free services to ISPs, hosting providers and CSIRTs
- Unmatched eco-system of data sharing and collaboration partnerships worldwide
- Work with 130+ CSIRT teams in 86+ countries
- Relied on by many security vendors, Fortune 100 companies, and public sector teams.

## **Community Services**









#### **Restricted Events**

**Underground Economy** 

Regional Internet Security Events (RISE)

#### **Free Tools / Services**

- NimbusTM
- BOGON Reference
- Malware Hash Registry
- Unwanted Traffic Removal Service
- Dragon News Bytes (threat news feed)

**CSIRT Assistance** 

**137** CSIRT Teams

52% of IPV4

75% of IPV6

#### **NimbusTM**



- Cloud based collector, built on Elastic / Kibana.
- Free to use for ISPs, hosting providers and CSIRTs.
- Correlates flow data with reputation feeds.
- Sign Up Today: <a href="https://team-cymru.com/community-services/nimbus-threat-monitor/">https://team-cymru.com/community-services/nimbus-threat-monitor/</a>

#### Join thousands of networks around the world.

Partner with Team Cymru to improve your network security and contribute to the global effort to secure the Internet as a whole. Nimbus Threat Monitor works by correlating your network flows with our world-class <a href="#">IP Reputation</a> threat intelligence. When you share your network traffic metadata with us, we pool it with data from thousands of networks worldwide and mine it to identify cyber threat activity. In turn, we give you near-real-time threat detection at no cost to you.

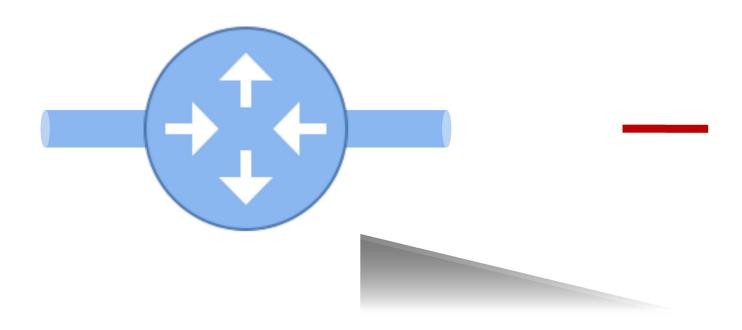
Nimbus Data Sheet

**GET STARTED** 



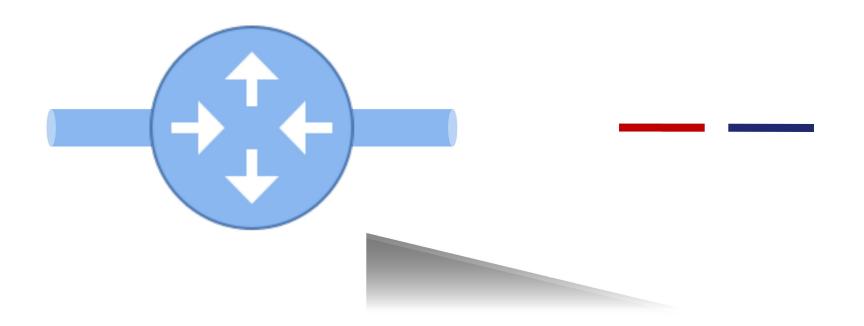
#### Flow Data – How it works...





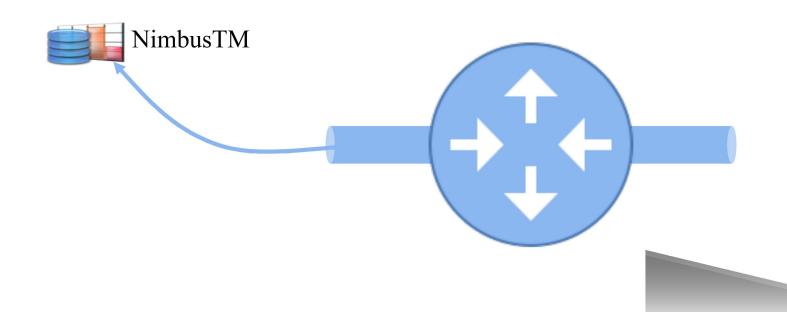
<b>Destination IP</b>	Source IP	<b>Destination Port</b>	Source port	Source Interface	Protocol	Bytes
8.8.8.8	1.1.1.1	80	65000	1	ТСР	100





<b>Destination IP</b>	Source IP	<b>Destination Port</b>	Source port	Source Interface	Protocol	Bytes
8.8.8.8	1.1.1.1	80	65000	1	TCP	600
4.4.4.4	2.2.2.2	80	64500	1	ТСР	50





<b>Destination IP</b>	Source IP	<b>Destination Port</b>	Source port	Source port Source Interface		Bytes	
8.8.8.8	1.1.1.1	80	65000	1	TCP	600	
4.4.4.4	2.2.2.2	80	64500	1	ТСР	50	

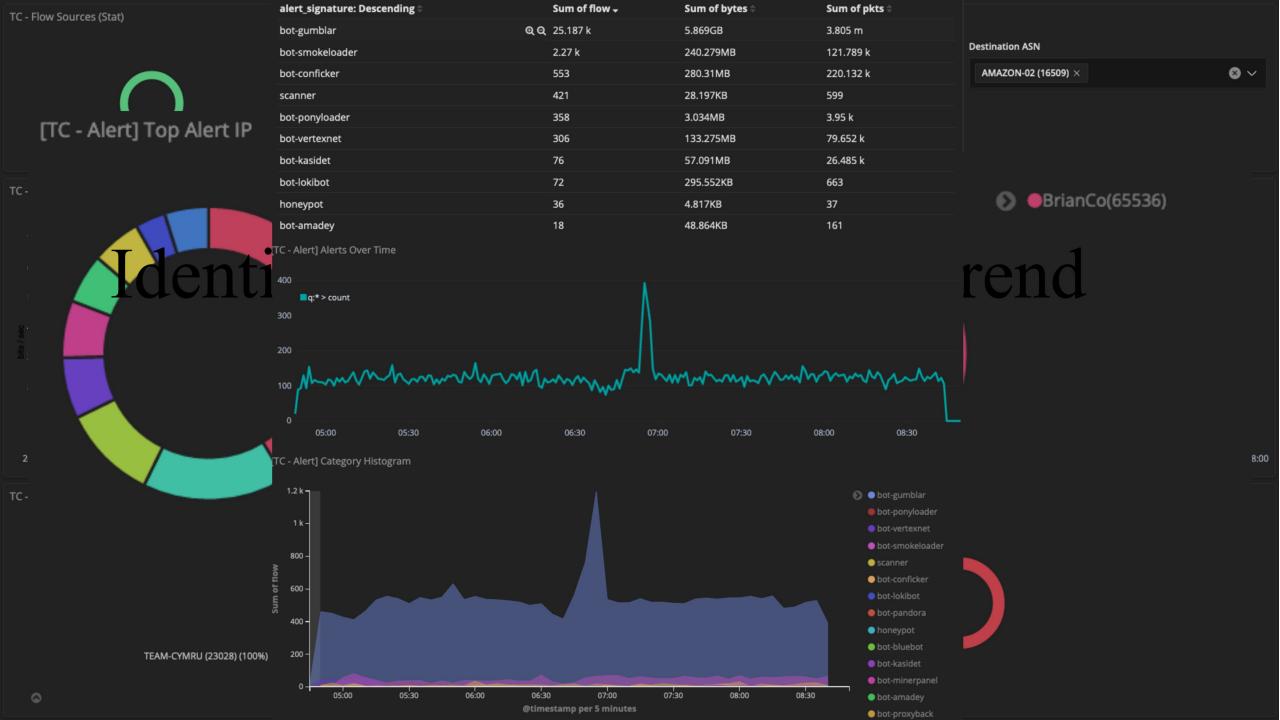
#### NimbusTM Data Enrichment



<b>Destination IP</b>	Source IP	<b>Destination Port</b>	Source port	Source Interface	Protocol	Bytes
8.8.8.8	1.1.1.1	80	65000	1	ТСР	100



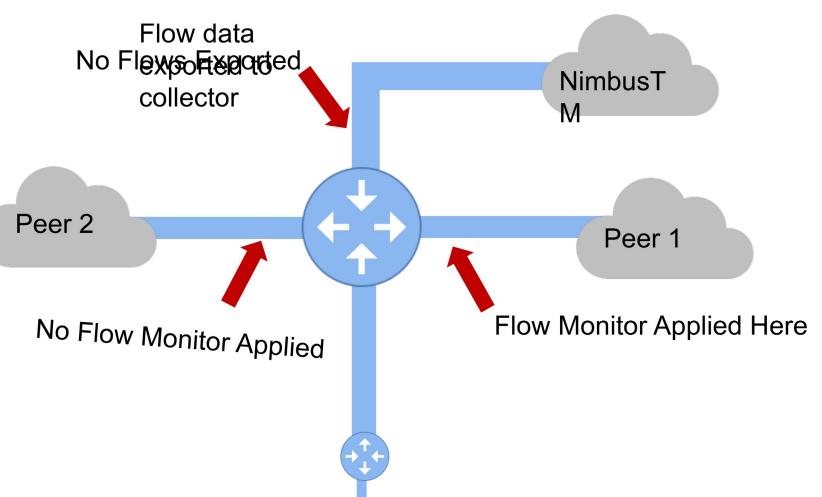
Destination IP	Destination ASN	Source IP	Source ASN	Destination Port	Source port	Source Interface	Protocol	Bytes	Alert IP	Alert_ASN	Alert Signature	Confidence
8.8.8.8	GOOGLE, US (151169)	1.1.1.1	BrianCo (65536)	80	65000	1	ТСР	100	1.1.1.1	BrianC0 (65536)	Brian Malware	100



# Where to gather data from?



- Flow monitors are applied to the interfaces you want to observe traffic for
- When applying flow monitors think about how traffic flows through your network to make sure you gather at funnel points.
- Configuring IPv6 Monitoring sometimes requires additional configuration





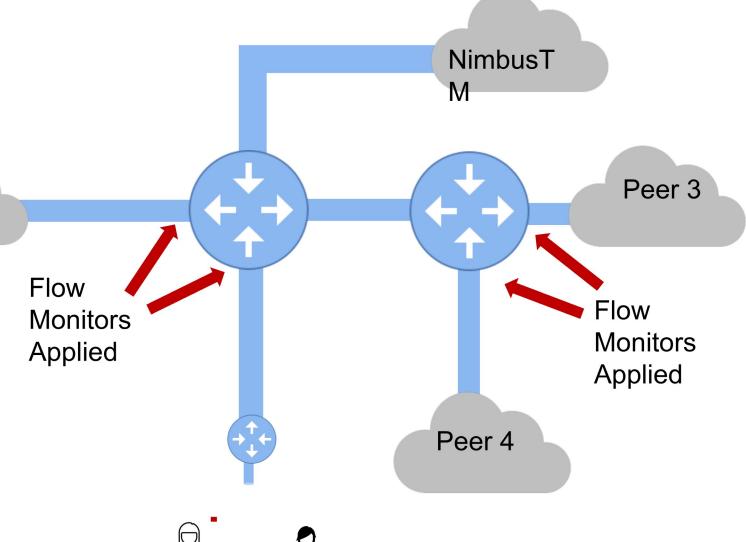


## Where to gather data from?

Peer 2

TEAM CYMRU

- Flow monitors are applied to the interfaces you want to observe traffic for
- When applying flow monitors think about how traffic flows through your network to make sure you gather at funnel points.
- Configuring IPv6 Monitoring sometimes requires additional configuration.
- Equally important to think about what network devices traffic flows through.









# Unwanted Traffic Removal Service

- Like RTBH, but: upstream and global
- Over 1,200 participating networks
- Reduces unwanted traffic hitting you and others







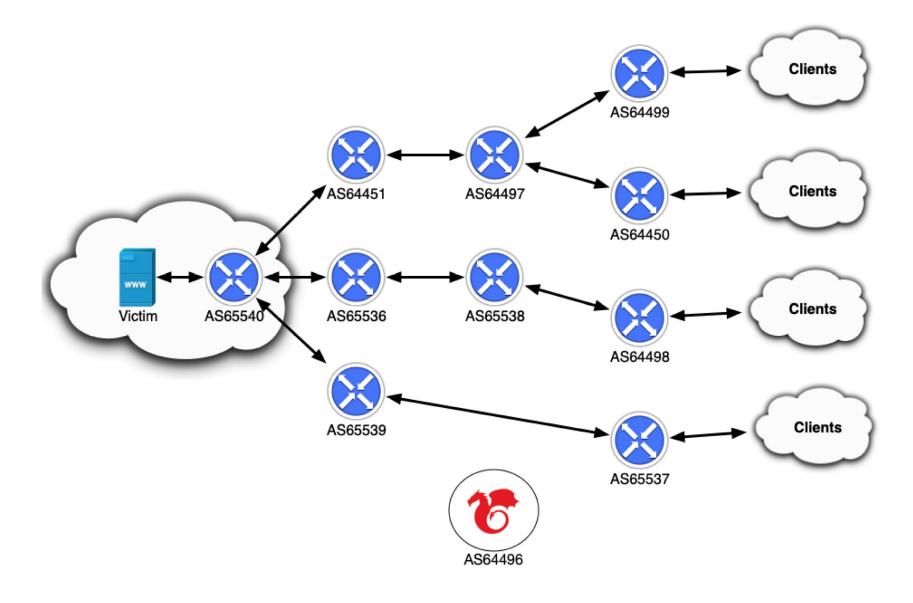
#### BGP based triggers, with two basic rules:

- Accepts only IPv4 /32 advertisements for addresses within prefixes you originate
- You agree to null route traffic to routes received from UTRS

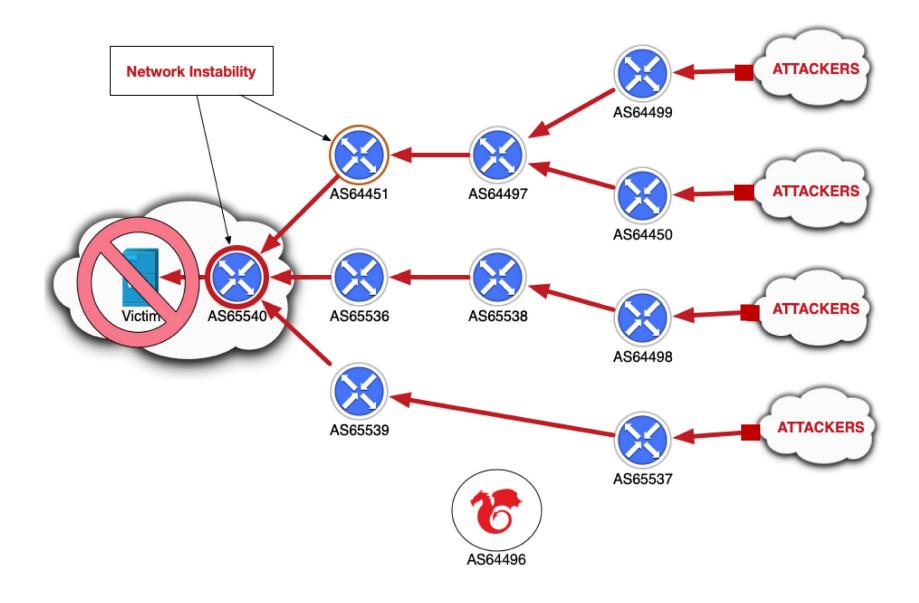


- 2.0 new features
- Add FlowSpec support
- Add RPKI validation (Mitigation service friendly)
- Add support for IPv6
- Allow larger prefixes (up to IPv4 /25, IPv6 /49)

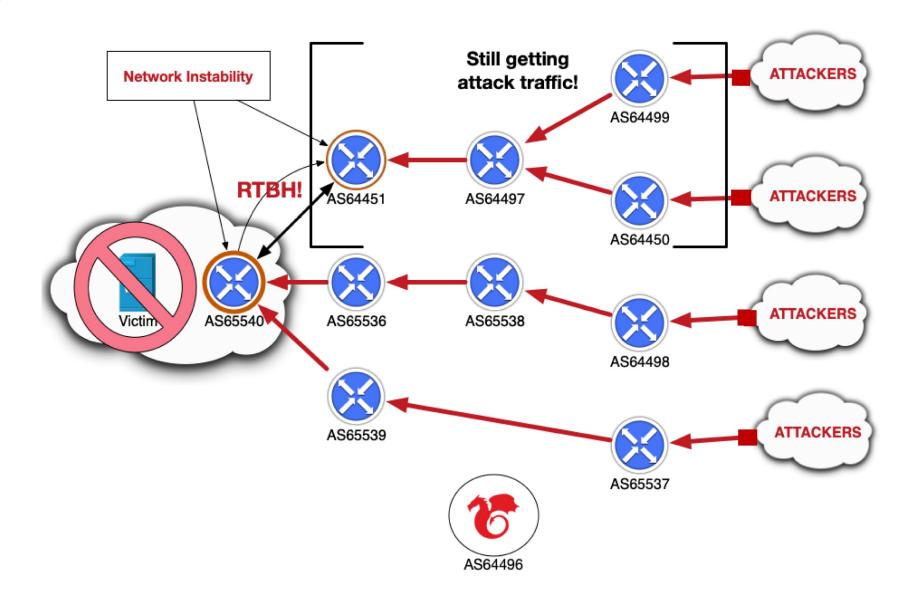




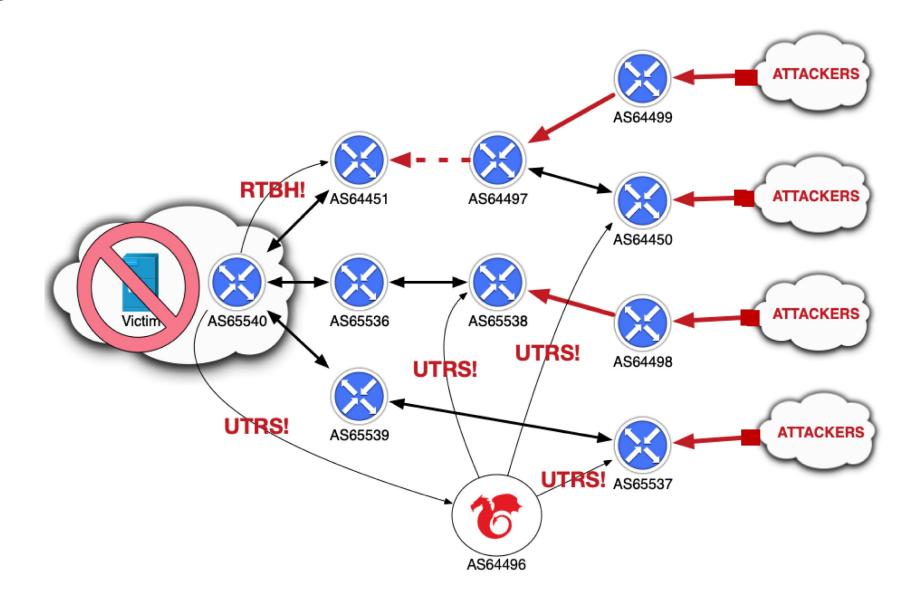












#### CAP



#### CSIRT Assistance Program (CAP)

- Free reputation data
- Contains our filtered set of threat intelligence
  - Specific to "jurisdiction"
- Available to Regional and National CSIRTs only



#### Other Services



- IP to ASN Mapping: https://team-cymru.com/community-services/ip-asn-mapping/
- Malware Hash Registry: https://team-cymru.com/community-services/mhr/
- Dragon News Bytes: https://team-cymru.com/community-services/dnb/

# Thank you.



CYMRU.COM | 847-378-3300 © 2020 TEAM CYMRU, INC. ALL RIGHTS RESERVED.