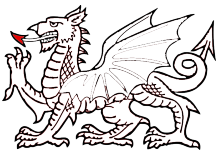


Peering and ISP Services



John Kristoff jtk@cymru.com



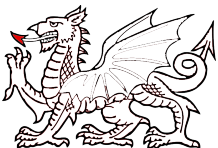
Who is Team Cymru?

- AS 23028 - public peering at Equinix Chicago today
- Security researchers uncovering the “who” and “why”
- Over 30 of us from around the globe
- We provide over 20 free community services
- FAQ: What helps pay bills?
 - Consulting engagements
 - Custom software development
 - Training
- <http://www.team-cymru.org> or find me later for more



Bogon BGP Feeds

- Addresses not to be seen on public Internet
 - RFC 1918 netblocks
 - RFC 5735 special use netblocks
 - IANA/RIR/ISP unassigned netblocks
- Ambiguous, hence bogus
- Beta testing new feed based on RIR allocations
 - “full bogons” : IPv4 ~6700 - IPv6 ~15,700
- team-cymru@cymru.com for peering sessions



Route Server Peering

- We collect IPv4 and IPv6 routes
- Raw data and peerings are not publicly disclosed
- Helps improve our IP address to BGP route service
 - <http://www.team-cymru.org/Services/ip-to-asn.html>
- Also helps our BGP monitoring efforts
 - <http://www.team-cymru.org/Monitoring/BGP>
- team-cymru@cymru.com for peering sessions



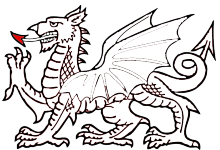
Other ISP Tools and Services

- DNS, protocol and malfeasance monitoring
- Configuration templates and whitepapers
 - IOS, JUNOS, BGP, NTP, SCADA, DNS, ...
- ASN/netblock alerts
 - Open resolvers, Conficker and others
- Darknet project
- team-cymru@cymru.com for questions and detail



Prototype: Community flow-spec

- Think firewall filters via BGP
- Available for Juniper, Arbor, maybe others
- Complete bogon filtering w/o uRPF possible
- Vetted “bad” lists of nets, hosts, apps, flows
- Multi-hop RTBH for participating networks
- Ala carte, select the feeds you want
- Goal: trustworthy, safe and false positive free
- jtk@cymru.com to participate in testing



Contact

- How else can we help?
 - e.g. want open resolver and conficker alerts?
- We always appreciate hosting and data
 - e.g. we love darknet sensors and BGP routes

info@cymru.com

Team PGP key 0x79B109F9

<http://www.team-cymru.org>

