Passive DNS

A Tool that is Making a Different to Track Down Badness

NANOG Lightening Talk in less than 10 minutes

Barry Greene

bgreene@isc.org

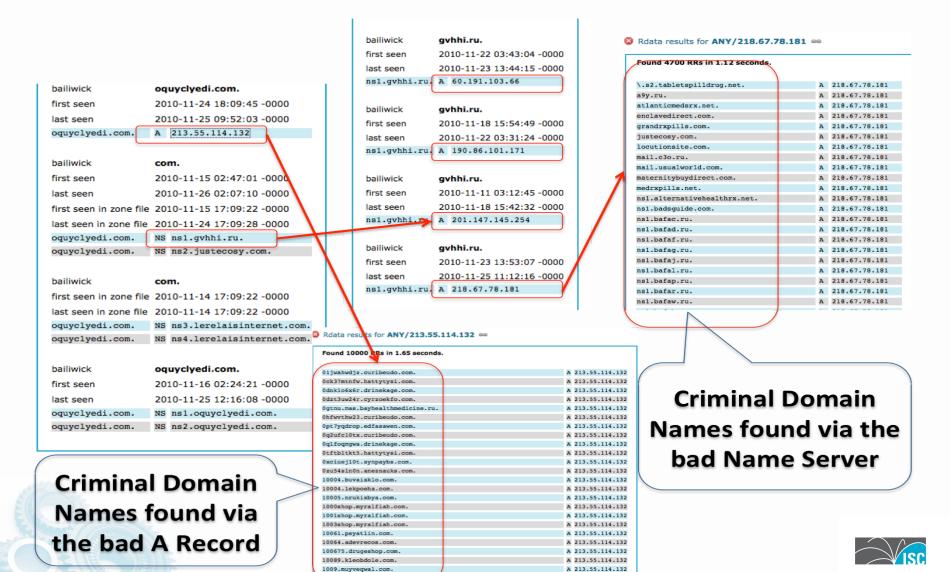


Please Participate

- We are looking for more providers to participate in our Passive DNS effort.
- Participation involves adding Passive DNS sensors to your DNS infrastructure.
- Participation protect the privacy of your customers.
- All data is aggregated, obscuring the source.
- Participants get access to the aggregate data for your own investigations.



Passive DNS – Tool to Find the Badness



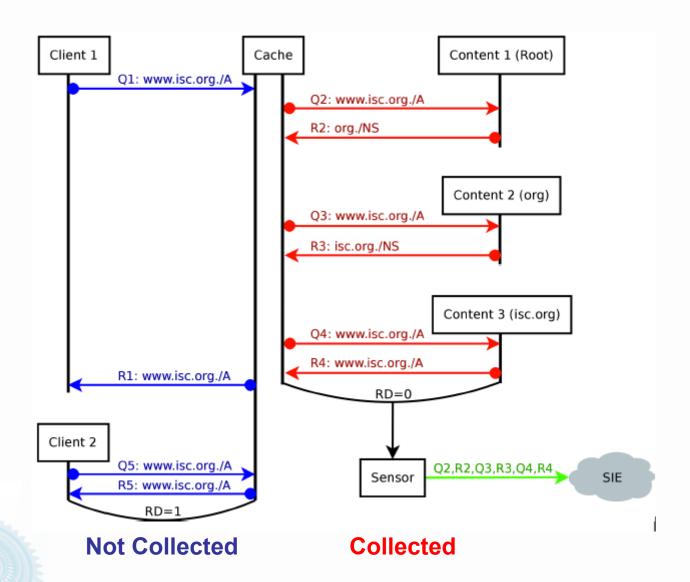
Passive DNS

- Passive DNS replication is a technology invented in 2004 by Florian Weimer.
 - Many uses! Malware, e-crime, legitimate Internet services all use the DNS.
- Inter-server DNS messages are captured by sensors and forwarded to a collection point for analysis.
- After being processed, individual DNS records are stored in a database.





End User & Operator Privacy Protected





DNS DB Demo





Who Gets Access?

- Security Information Exchange (SIE) Peers (raw data).
- DNSDB User Interface (beta)
 - ✓ Vetted Member of the Operational Security Community
 - ✓ Passive DNS Contributors
 - ✓ SIE Peers
 - ✓ SIE Forum Members
- DNSDB API (beta)
 - ✓ Passive DNS Contributors
 - ✓ ISC Sponsored Researchers
 - ✓ SIE Peers
 - ✓ SIE Forum Members



How to Participate?

- Check out information at sie.isc.org.
 - ✓ Step 1 Apply to contribute Passive DNS Data (Vetting)
 - ✓ Step 2 Download SIE Passive DNS Software
 - ✓ Step 3 Gain Credentials to allow you to submit Passive DNS Data
 - ✓ Step 4 Configuring the SIE Passive DNS Sensor
 - ✓ Step 5 Start feeding data into the SIE Passive DNS System
 - Step 6 Use the benefits of Passive DNS to help with your own organization's security
- E-mail <u>dnsdb@sie.isc.org</u>





