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Contents

Introduction

Motivation

Monthly Statistics

Annual Statistics

Conclusions

References





Introduction

Statistics is a good source of information (trust?)

Statistics can look to the big picture or to the little guy (focus!)

Statistics availability must be in real time (now!)

Statistics must be automatic generated (easy!)

I like statistics





Motivation

- Provide useful information to CSIRTs technical staff and support manager decisions and strategic plans.
- Improve security alerts to our constituency.
- Build a large scale source network and a reliable source network.
- Share information with FIRST members and other CSIRTs.
- We have been noticed worldwide lack of statistics on security. CAIS has been received requests of statistics about our constituency, about Brazil and Latin America hacker activities.
- Still a pilot-project...
- ... besides that, we've been working on it for the last year.





Statistics

Top 10 Ports hourly / daily / weekly / monthly

Top 10 IPs hourly / daily / weekly / monthly

Trends hourly / daily / weekly / monthly

New Port appearance x Cached Information (uhm!)

Slow scan/probe weekly / monthly (uhm!!)

Acceleration / Explosion Detector (uhm!!!)

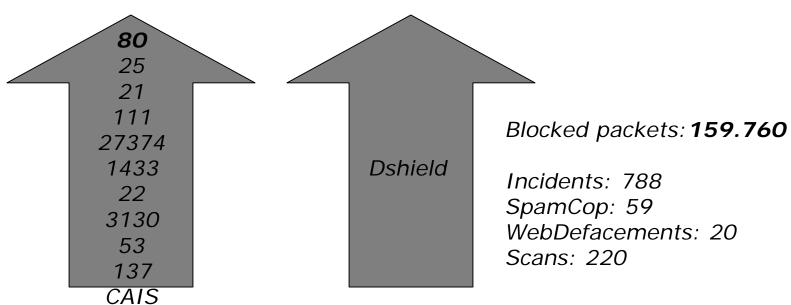
• IP Constituency Check (bonus!)





Statistics

January 2002

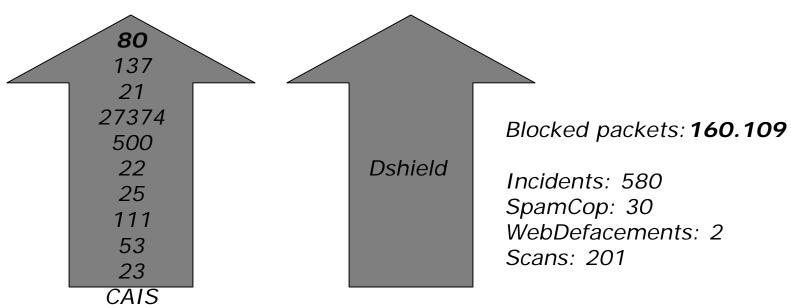






Statistics

• February 2002

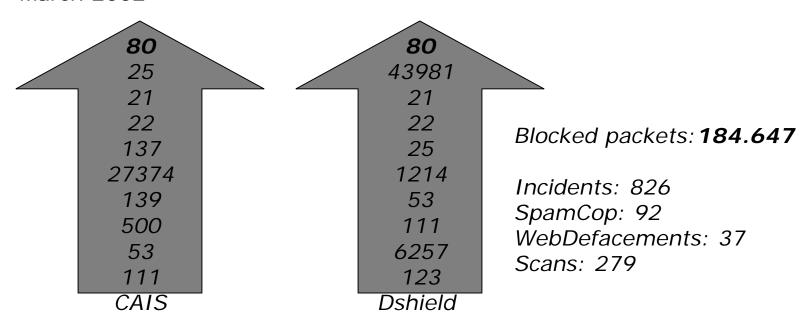






Statistics

March 2002

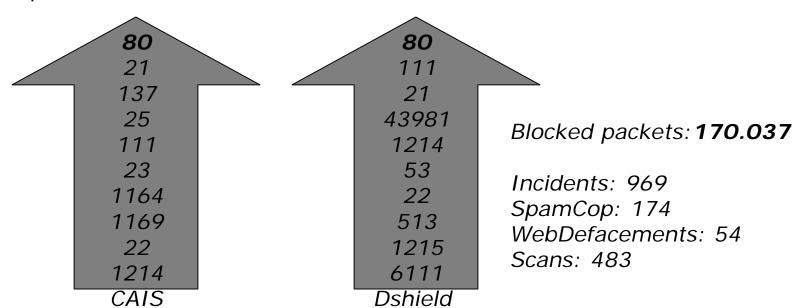






Statistics

• April 2002

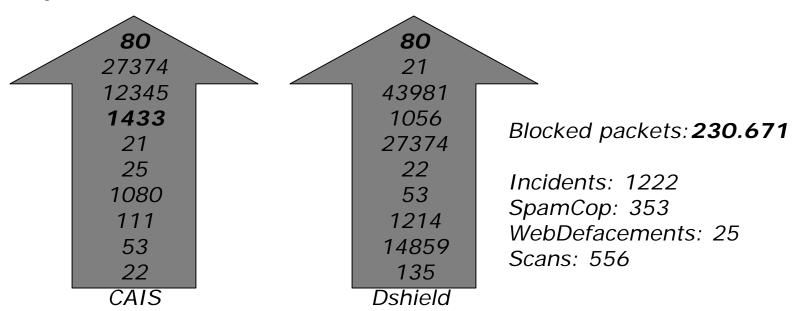






Statistics

May 2002



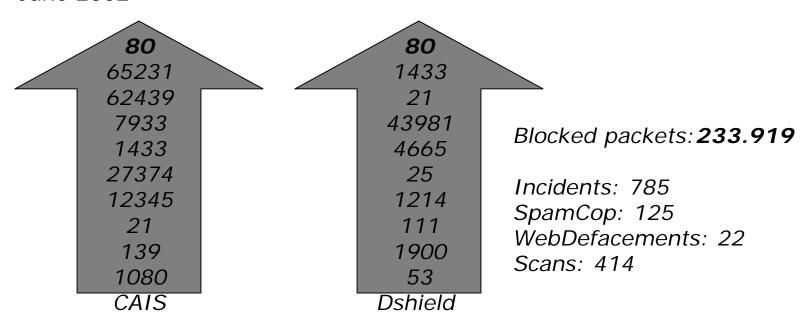
• MS02-007, MS02-020, SQL





Statistics

June 2002

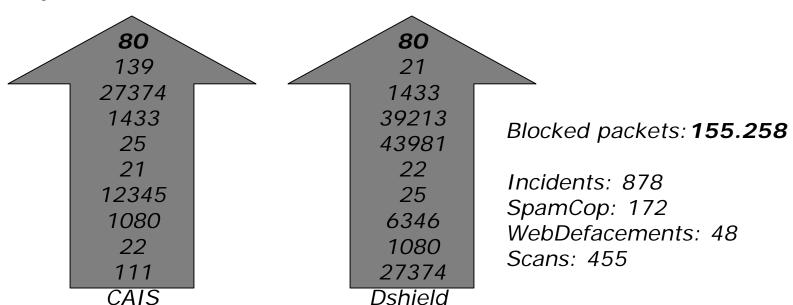






Statistics

July 2002

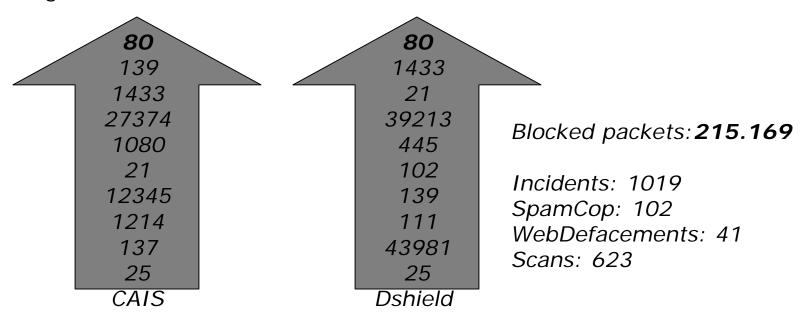






Statistics

August 2002

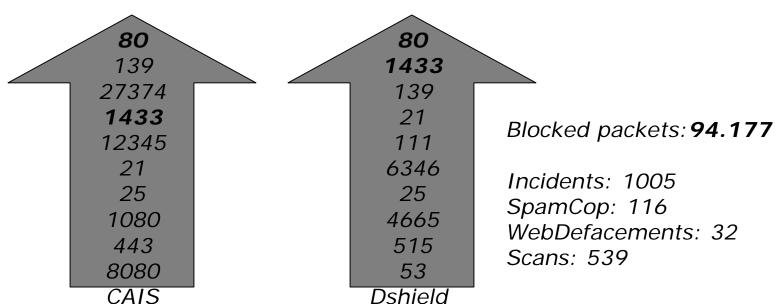






Statistics

September 2002



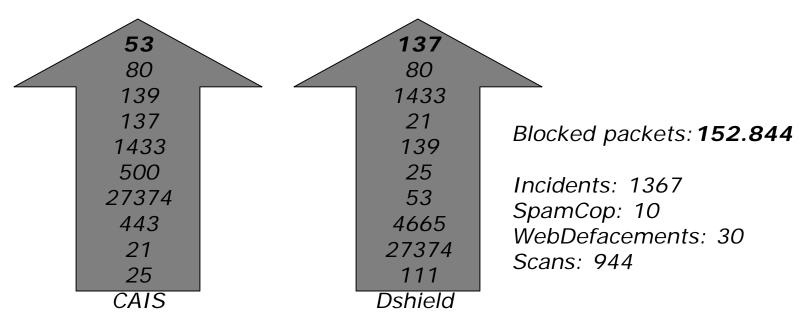
• CA-2002-27 Worm Slapper





Statistics

October 2002

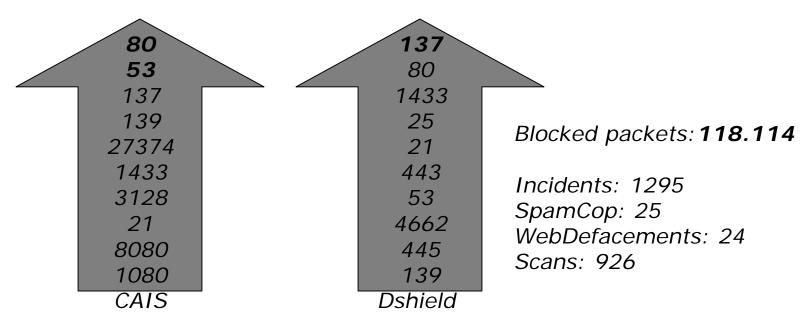






Statistics

November 2002



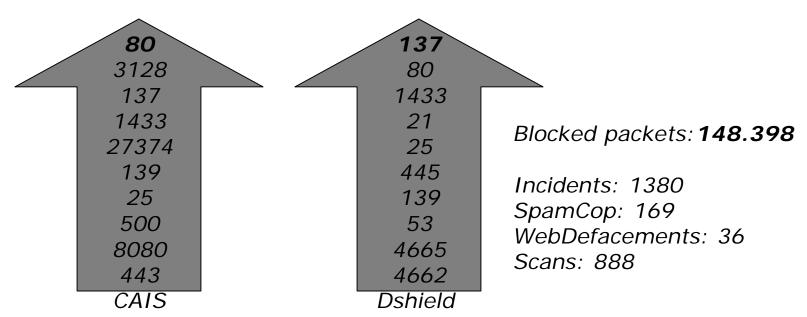
• CA-2002-31 Multiple Vulnerabilities in BIND





Statistics

December 2002

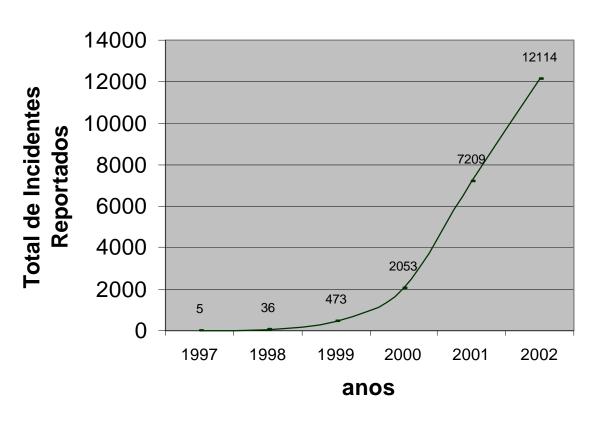






Annual Statistics: Incidents Reported

Incidentes Reportados ao CAIS

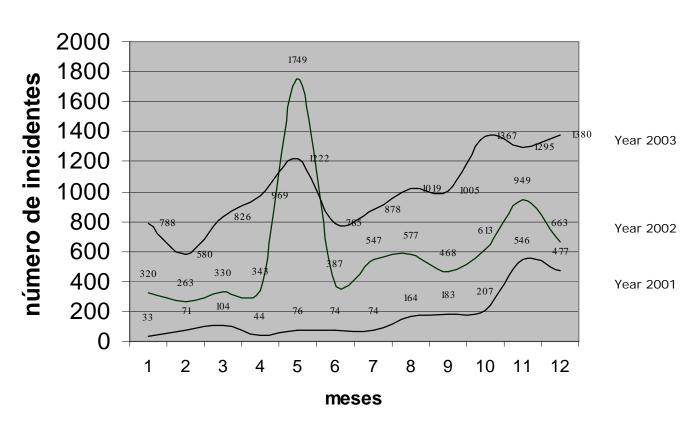






Annual Statistics: Incidents Reported

Incidentes Reportados ao CAIS 2002







Conclusions

- Statistics help to predict the future, make assumptions about hacker activities and so on. If you have solids statistics, they can support you to make trends.
- Statistics support action plans in order to improve security level of your constituency networks. These action plans can include security alerts, recommendations, best practices about systems and services configuration, security policies.
- Statistics give credibility to incident handling activities because your "numbers" gain some "meaning" and help you to improve incident handling procedures, investigation and analysis process.





References

- http://www.caida.org/
- http://www.securitystats.com/
- http://www.cert.org/stats/cert_stats.html
- http://www.dshield.org/
- http://www.mynetwatchman.com/
- http://www.internetsecuritynews.com/securitystatistics.htm

