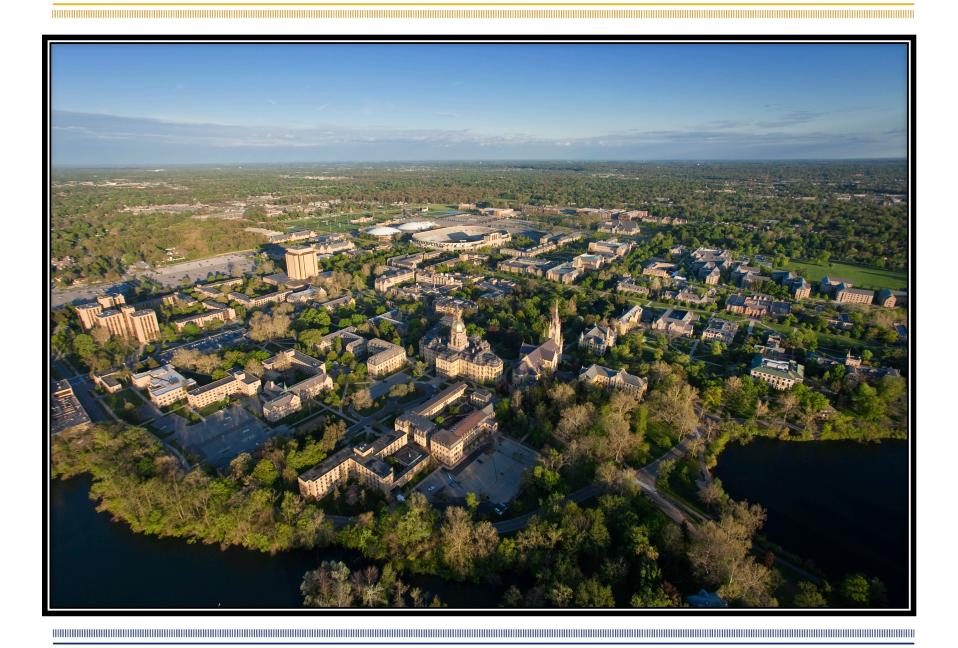
Vulnerability Scanning at Notre Dame

Mike Chapple

Senior Director, Enterprise Support Services





IT is centralized

but only to a certain extent!

Five years ago, I had a Bad Day



SECURITY THREATS TOOLKIT

Hackers strike at Notre Dame

Tags: Break-in, College, Theft, University





Breach may have exposed donor information

Hacker causes Notre Dame's first significant computer



Notre Dame probes hack of compute

By Greg Sandoval

Staff Writer, CNET News.com

Published: January 23, 2006, 6:40 PM PST

Jaikumar Vijayan

January 24, 2006 (Computerworld) The University of Notre Dame in India hack of a university server that may have exposed confidential data belon donors to the school.

University of Notre Dame investiga

The hack took place on Jan. 13 and was discovered the same day by the staff, said Hilary Crnkovich, Notre Dame's vice president of public affairs. any data that may have been exposed in the attack is being misused, she said. Size this

Story Tools

D. TalkBack

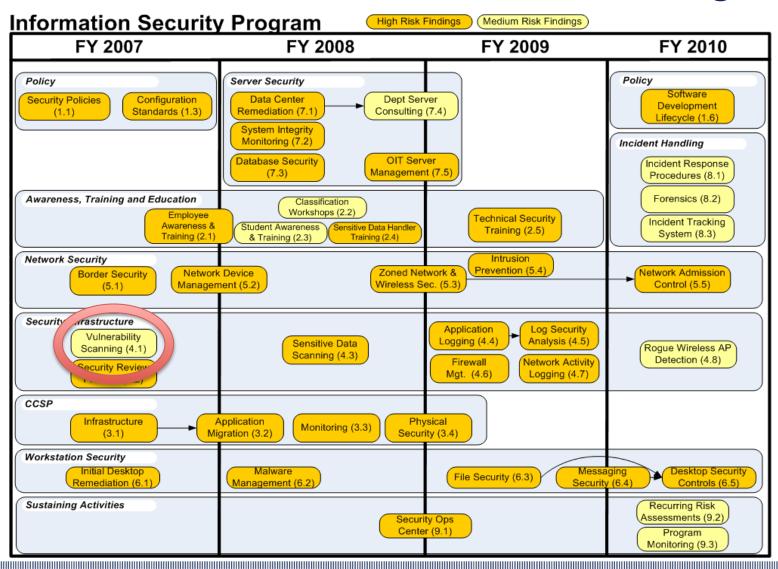
Print

del.icio.us

Two computer-forensic companies are helping the University of Notre Dame investigate an electronic break-in that may have exposed the personal and financial information of school donors.

The hackers may have made off with Social

But the Cloud had a Silver Lining

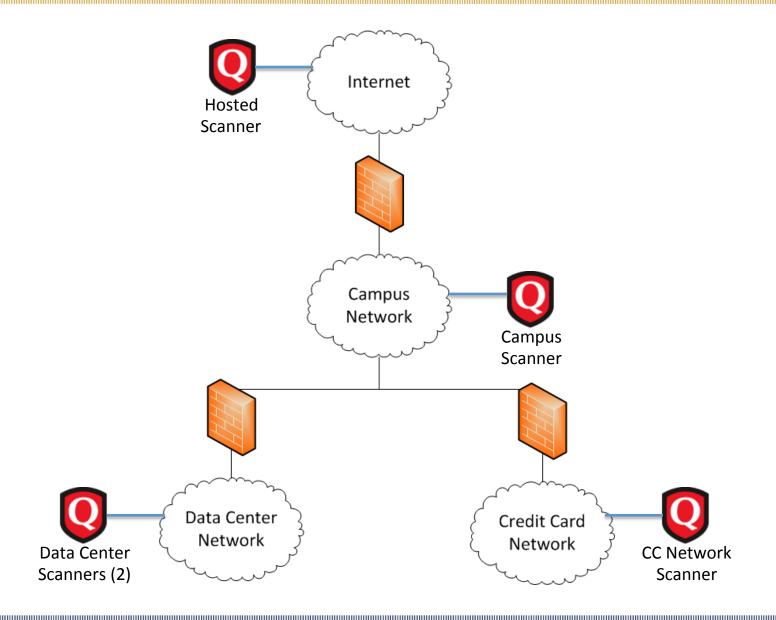


We Needed Something...

- Easy to deploy
- Scalable
- Accessible to non-security IT staff
- Low administrative overhead

Scanning Services

- Managed scanning of central IT systems
- Public IP space scanning
- PCI DSS compliance management
- Variety of services for distributed IT
 - On-demand scanning
 - Build scanning
 - Recurring scanning



3 SSL Server Supports Weak Encryption Vulnerability (50)



3 SSL Server Supports Weak Encryption Vulnerability (50)

THREAT:

The Secure Socket Layer (SSL) protocol allows for secure communication between a client and a server.

SSL encryption ciphers are classified based on encryption key length as follows:

HIGH - key length larger than 128 bits MEDIUM - key length equal to 128 bits LOW - key length smaller than 128 bits

Messages encrypted with LOW encryption ciphers are easy to decrypt. Commercial SSL servers should only support MEDIUM strength ciphers to guarantee transaction security.



IMPACT:

An attacker can exploit this vulnerability to decrypt secure communications without authorization.



3 SSL Server Supports Weak Encryption Vulnerability (50)

SOLUTION:

Disable support for LOW encryption ciphers.

Apache

Typically, for Apache/mod_ssl, httpd.conf or ssl.conf should have the following lines:

SSLProtocol -ALL +SSLv3 +TLSv1

SSLCipherSuite ALL:!aNULL:!ADH:!eNULL:!LOW:!EXP:RC4+RSA:+HIGH:+MEDIUM

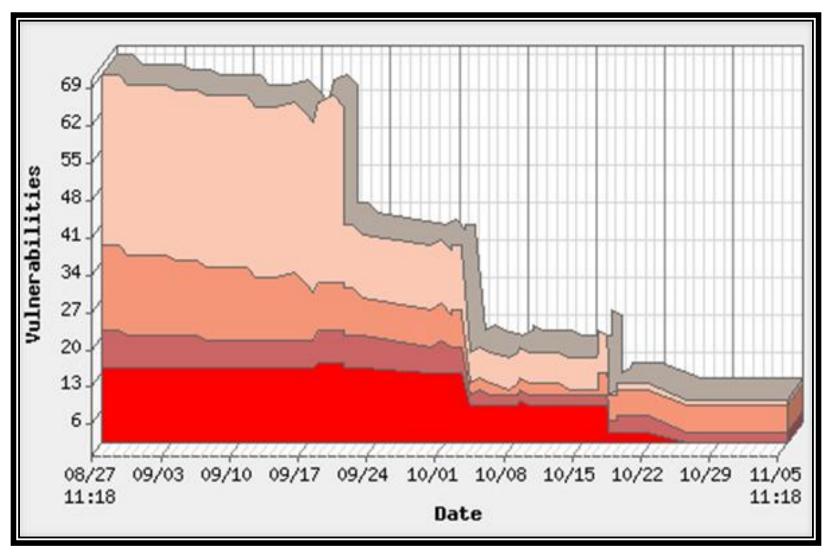
For Apache/apache_ssl include the following line in the configuration file (httpsd.conf):

SSLRequireCipher ALL:!aNULL:!ADH:!eNULL:!LOW:!EXP:RC4+RSA:+HIGH:+MEDIUM

Case Study: PCI DSS Compliance



Two Wonderful Months...



Case Study: Research Computing



Questions?

