

AppDetectiveTM for Lotus Domino

Product Briefing



AppDetectiveTM Briefing Agenda

• There is a problem...

- Lotus Domino Security Problems
 - In General
 - Industry Requirements and Regulations

• There is a solution...

- AppDetectiveTM Capabilities
 - Key Technology Feature Differentiation
 - Who Benefits? How? Why?
- Requirement and Regulation Compliance
 - Financial Services, Health Care, and E-Commerce
- There is a way... and a plan...
 - What's included?
 - Our Organization, Current Position and Future Plans



Lotus Domino Security Problems

- Inability to Effectively Inventory and Identify Lotus Domino Servers
- Lotus Domino Vulnerabilities and Threats are Easily Exploitable and are Growing Every Day
- Lotus Domino Vulnerabilities and Threats Endanger Trusted Systems
 - Host Operating Systems
 - Network Operating Systems
 - Other Web Servers/Applications/Databases



Lotus Domino Security Problems

- Lotus Domino security problems directly affect how organizations are able to fulfill industry requirements such as the following:
 - VISA CISP (Cardholder Information Security Program)
 - Gramm-Leach-Bliley Act (GLBA)
 - Health Insurance Portability Accountability Act (HIPAA)



Existing Security Solution Shortcomings

- Security Management / Policy Compliance
 - Agent Based
 - Mainly Configuration Settings Management and Policy Compliance Solutions
- Vulnerability Assessment
 - Many Solutions Do Not Check the Lotus Domino Security Subsystem Level
 - Require Administrative-Level Privileges
 - Require Lengthy Connection Configuration Procedures
- Latest Versions and Vulnerabilities
 - Organizations aren't necessarily dedicated to security vulnerabilities and threats on this level



AppDetectiveTM is the Answer

- AppDetectiveTM for Lotus Domino
 Empowers Organizations with the Following Capabilities:
 - 1. Application Discovery and Identification
 - 2. Penetration Testing
 - 3. Security Audit
 - 4. Reporting Facilities
 - 5. Complimentary and Compatible
 - 6. Extensive and Updated Library of Vulnerabilities and Misconfigurations



AppDetectiveTM is the Answer

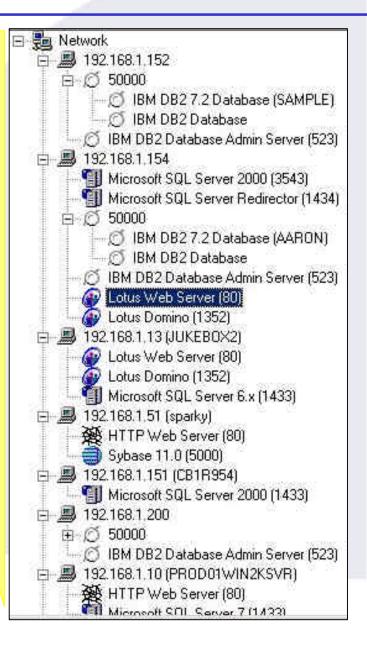
- AppDetectiveTM for Lotus Domino Empowers the Following Individuals:
 - Security Practitioners
 - Internal Auditors
 - General System Administrators
 - Domino Administrators
 - Domino Developers



1. Discovery and Inventory

- Scanning
 - IP Number
 - Port Number
 - Version (x.x.x.x)
- Scanning Advantages
 - Accurate
 - Continually Updated
 - NMAP Integration





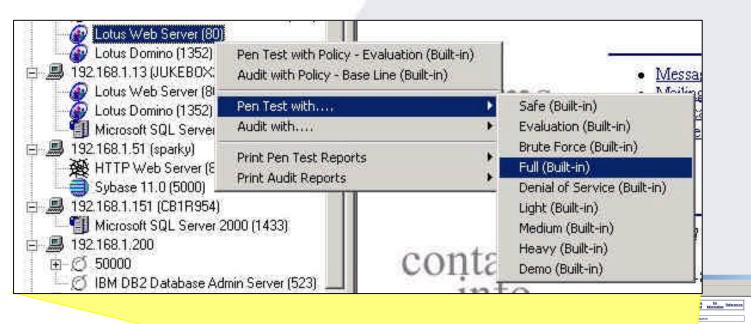
2. Penetration Testing

- Pen TestTM
 - True "Zero Knowledge" and non-intrusive penetration techniques are utilized as simple as:
 - 1. Discover Lotus Domino servers through a Scan
 - 2. Right-clicking on the selected Lotus Domino
 - 3. Selecting "Pen Test" from the provided menu
 - All checks are performed externally without elevated privileges
 - Target Lotus Domino server is not affected



2. Penetration Testing

- Pen TestTM
 - True "Zero Knowledge" and non-intrusive penetration techniques are utilized





2. Penetration Testing

- Pen TestTM Categories
 - Denial of Services (DoS) Attacks
 - Examples: Unicode DoS, IIOP packet DoS, etc.
 - Misconfigurations
 - Examples: Open server access field
 - Password Attacks
 - Examples: Blank, Default, and Easily Guessed Passwords
 - Vulnerabilities
 - Examples:Stored password hashes, Gaps in database ACLs, buffer overflows, etc.



3. Security Auditing

- Security Audit Advantages
 - Provides an "Inside-out" approach to auditing the security of your database
 - Examine how an unauthorized user can obtain elevated privileges or circumvent security controls from the inside

- Automatic configuration upon discovery

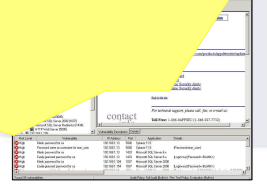


3. Security Auditing

• Security Audit

United Server (523) Lotus Web Server (80) Lotus Domino (1352)	Back to the top
E 🗐 192:168.1.13 (JUKEBOX Audit with Policy - Base Line	e (Built-in) 🕴 🔹 Mes
Lotus Web Server (8 Audit with	Strict (Built-in)
Lotus Domino (1352) Microsoft SQL Serve Print Audit Reports	Audit Passwords (Built-in)
E 🔜 192.168.1.51 (sparky)	Audit Integrity (Built-in)
HTTP Web Server (80)	Base Line (Built-in) Audit Authorization (Built-in)





3. Security Auditing

- Security Audit Categories
 - Access Control
 - Examples: Author field exceeds database ACL, Anonymous IIOP access
 - Identification/Password Control
 - Examples: Clear-Text, Default, and Easily Guessed Passwords
 - Application Integrity
 - Examples: Denial of Service Checks, Buffer Overflows, Configuration Settings

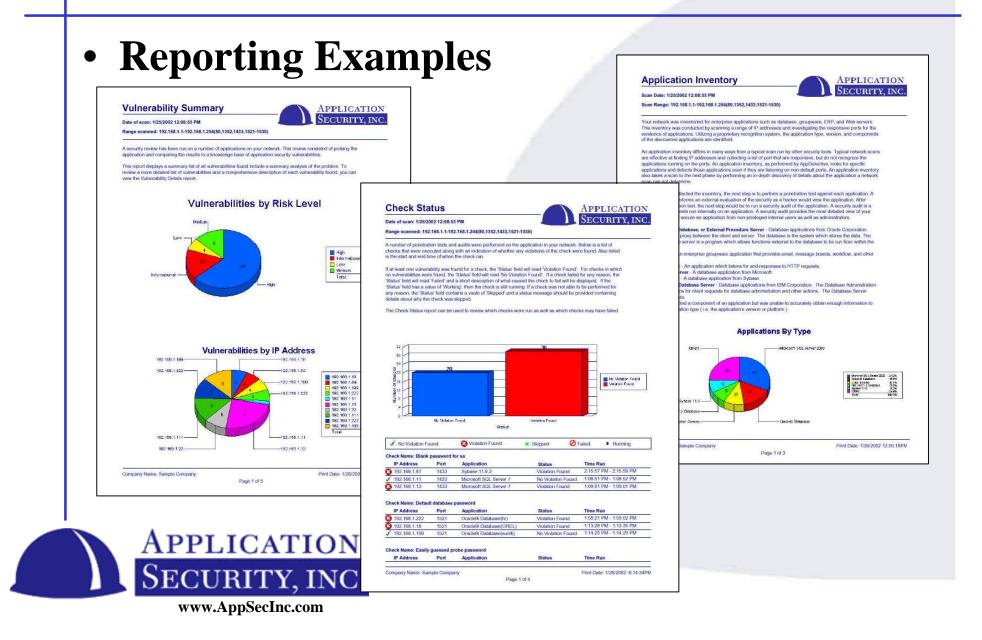


4. Reporting Facilities

- Report Generation Facilities
 - Policy Reports
 - Summary Reports of the Tests Performed
 - Detailed Reports of the Tests Performed
 - High-Level Overview and Detailed Overview of Found Vulnerabilities
 - Recommendations and Fix Information
- Report Generation Advantages
 - Report on Servers Across Your Network



4. Reporting Facilities



5. Complimentary and Compatible

- AppDetective essentially picks up where all of the following leave off:
 - Network and Host Operating System Scanners
 - Port Scanners
 - Other "Domino" Scanners



6. Vulnerabilities and Misconfigurations

• Databases

 Oracle, Microsoft SQL Server, IBM DB2, Sybase, and MySQL

• Groupware

- Lotus Notes/Domino and Microsoft Exchange
- ERP
 - SAP R/3, PeopleSoft, CRM
- Key Industry Advantage
 - Application Security, Inc. concentrates its entire R&D to the security, protection, and defense of applications.



AppDetectiveTM Fulfilling Requirements

- AppDetective[™] capabilities provide organizations with a way to fulfill industry requirements in the following:
 - Gramm-Leach-Bliley Act (GLBA)
 - Health Insurance Portability Accountability Act (HIPAA)
 - VISA CISP (Cardholder Information Security Program)



AppDetectiveTM and the GLBA

- Gramm-Leach-Bliley Act (GLBA)
- TITLE V PRIVACY
 - SEC. 501 PROTECTION OF NONPUBLIC PERSONAL INFORMATION
 - SEC. 505 (b) ENFORCEMENT OF SECTION 501.
- Interagency and NCUA Standards for Safeguarding Objectives and Guidelines



AppDetectiveTM and the GLBA

AppDetective™ Capabilities

- Inventory and Identification
- Penetration Testing
- Security Audit
- Reporting Facilities
- Extensive and Updated Library of Application Vulnerabilities and Misconfigurations

Interagency and the NCUA Guidelines

- B. Assess Risk
- C. Manage and Control Risk
- D. Oversee Service Provider Agreements
- E. Adjust the Program
- F. Report to the Board



AppDetectiveTM and **HIPAA**

AppDetective™ Capabilities

- Inventory and Identification
- Penetration Testing
- Security Audit
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- Extensive and Updated Library of Application Vulnerabilities and Misconfigurations

Administrative Procedures

- Certification
- Contingency Plan
- Information Access Control
- Internal Audit
- Personnel Security
- Security Configuration Management
- Security Incident Procedures
- Security Management Process
- Termination Procedures
- Training



AppDetectiveTM and **HIPAA**

AppDetective™ Capabilities

- Inventory and Identification
- Penetration Testing
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Technical Security Services

- Access Control
- Audit Controls
- Authorization Controls
- Data Authentication
- Entity Authentication



AppDetectiveTM and Visa CISP

AppDetective™ Capabilities

- Inventory and Identification
- Penetration Testing
- Security Audit
- Reporting Facilities
- Extensive and Updated Library of Application Vulnerabilities and Misconfigurations



Visa CISP Requirements

- 1. Install and maintain a working firewall to protect data accessible via the Internet
- 2. Keep security patches up to date
- 6. Restrict access to data by business need-to-know.
- 7. Assign a unique ID to each person with computer access to data.
- 8. Do not use vendor-supplied defaults for system passwords and other security parameters
- 9. Track all user access to data by unique ID
- 10. Regularly test security systems and processes
- 11. Administrative Data Security

Availability

- Evaluation Copies Available for Download:
 - http://www.appsecinc.com/downloads/
- Updates are easily downloadable from:
 - http://www.appsecinc.com/products/appdetective/updates.html



AppDetectiveTM Future Plans

- Expanded Database and Groupware Platforms
 - Oracle
 - http://www.appsecinc.com/products/appdetective/oracle/
 - Microsoft SQL Server
 - http://www.appsecinc.com/products/appdetective/mssql/
 - Sybase
 - http://www.appsecinc.com/products/appdetective/sybase/
 - IBM DB2
 - http://www.appsecinc.com/products/appdetective/db2
 - MySQL
 - Microsoft Exchange



Who is Application Security, Inc.

- Unique Position and Background
 - SHATTER[™] focuses on database, groupware, web, and ERP applications
 - Encryption
 - Penetration Testing/Vulnerability Assessment
 - Intrusion Detection
- Where Application Security, Inc. (ASI) is Heading
 - Develop security solutions providing "protection where it counts"



Proposed Product Family Suite

- Database Encryption
 - DbEncryptTM
 - Oracle | SQL Server
- Pen Test / Vulnerability Assessment
 - AppDetectiveTM
 - Lotus Domino | Microsoft SQL Server | Sybase Microsoft Exchange | IBM DB2/UDB | MySQL
- Intrusion Detection
 - AppRadarTM (Coming Soon)



Wrapping Up...

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• There is a solution...

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