



# FISMA Vulnerabilities Assessment Report

Report Generated: December 14, 2015

## 1 Background

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The [E-Government Act \(Public Law 107-347\)](#) passed by the 107th Congress and signed into law by the President in December 2002 recognized the importance of information security to the economic and national security interests of the United States. Title III of the E-Government Act, entitled the [Federal Information Security Management Act \(FISMA\)](#) requires each federal agency to develop, document, and implement an agency-wide program to provide information security for the information and information systems that support the operations and assets of the agency, including those provided or managed by another agency, contractor, or other source.

The first phase of the FISMA Implementation Project focuses on the development and updating of the security standards and guidance required to effectively implement the provisions of the legislation. The implementation of NIST standards and guidance will help agencies create and maintain robust information security programs and effectively manage risk to agency operations, agency assets, and individuals.

The second phase of the FISMA Implementation Project is focused on providing information system implementation and assessment reference materials for building common understanding in applying the NIST suite of publications supporting the Risk Management Framework (RMF). One of key aspects phase two is the use of support tools, checklists, etc:

- (ii) Support Tools Initiative: for defining criteria for common reference programs, materials, checklists, (i.e NVD, SCAP, etc.), technical guides, automated tools and techniques supporting implementation and assessment of SP 800-53-based security controls.

Collectively, the FISMA project strives to combine standards and guidelines with the use of technologies, tools and techniques to provide a holistic approach to information security.

## 2 Security Controls

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The Office of Management and Budget (OMB) M-09-29, dated August 20, 2009, specifies that:

Agencies are required to use FIPS 200/NIST Special Publication 800-53 for the specification of security controls and NIST Special Publications 800-37 and 800-53A for the assessment of security control effectiveness.

FIPS 200, Minimum Security Requirements for Federal Information and Information Systems, is a mandatory federal standard developed by NIST in response to FISMA. To comply with the federal standard, organizations must first determine the security category of their information system in accordance with FIPS 199, Standards for Security Categorization of Federal Information and Information Systems, derive the information system impact level from the security category in accordance with FIPS 200, and then apply the appropriately tailored set of baseline security controls in NIST Special Publication 800-53, Security Controls for Federal Information

Systems and Organizations. Organizations have flexibility in applying the baseline security controls in accordance with the guidance provided in Special Publication 800-53. This allows organizations to tailor the relevant security control baseline so that it more closely aligns with their mission and business requirements and environments of operation.

FIPS 200 and NIST Special Publication 800-53, in combination, help ensure that appropriate security requirements and security controls are applied to all federal information and information systems. An organizational assessment of risk validates the initial security control selection and determines if any additional controls are needed to protect organizational operations (including mission, functions, image, or reputation), organizational assets, individuals, other organizations, or the Nation. The resulting set of security controls establishes a level of security due diligence for the organization.

NIST SP 800-53 specifies the security controls by unique Identifier, Family and Class (Reference SP800-83, Revision 3, Section 2.1, Table 1-1, SECURITY CONTROL CLASSES, FAMILIES, AND IDENTIFIERS)

### **3 Consensus Audit Guidelines (CAG)**

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A central tenet of the US Comprehensive National Cybersecurity Initiative (CNCI) is that 'offense must inform defense' (source: <http://www.sans.org/critical-security-controls/cag.pdf>) In other words, knowledge of actual attacks that have compromised systems provides the essential foundation on which to construct effective defenses. The US Senate Homeland Security and Government Affairs Committee moved to make this same tenet central to the Federal Information Security Management Act in drafting the U.S. ICE Act of 2009 (the new FISMA). That new proposed legislation calls upon Federal agencies to (and on the White House to ensure that they):

monitor, detect, analyze, protect, report, and respond against known vulnerabilities, attacks, and exploitations. and .continuously test and evaluate information security controls and techniques to ensure that they are effectively implemented.

The CAG, maintained by SANS (<http://www.sans.org/>), contains the list of Twenty Critical Controls for Effective Cyber Defense (source: <http://www.sans.org/critical-security-controls/user-tools.php> ). The CAG, in contrast to security guidelines and controls within NIST SP 800-53, seeks to identify a subset of security control activities that CISO.s, CIO.s and IG.s can focus on as their top, shared priority for cyber security based on attacks occurring today and those anticipated in the future. Each control maps to specific corresponding areas within SP 800-53. Within that guideline, the CAG describes Critical Control 10: Continuous Vulnerability Assessment and Remediation. Critical Control 10 maps to the following technical controls within SP 800-53, revision 3, Appendix D, Table D-1: Security Control Baselines:

- CA-7 -- Continuous Monitoring
  - Enhanced Supplemental Guidelines: Examples of vulnerability mitigation procedures are contained in Information Assurance Vulnerability Alerts.
  
- RA-3 -- Risk Assessment (Control: The Organization)
  - A. Conducts an assessment of risk, including the likelihood and magnitude of harm, from the unauthorized access, use, disclosure, disruption, modification, or destruction of the information system and the information it processes, stores, or transmits;
  - B. Documents risk assessment results in [Selection: security plan; risk assessment report; [Assignment: organization-defined document]];

- C. Reviews risk assessment results [Assignment: organization-defined frequency]; and
  - D. Updates the risk assessment [Assignment: organization-defined frequency] or whenever there are significant changes to the information system or environment of operation (including the identification of new threats)
- RA-5 -- Vulnerability Scanning (Control: The Organization)
    - Scans for vulnerabilities in the information system and hosted applications [Assignment organization-defined frequency and/or randomly in accordance with organization-defined process] and when new vulnerabilities potentially affecting the system/applications are identified and reported;
    - Employs vulnerability scanning tools and techniques that promote interoperability among tools and automate parts of the vulnerability management process by using standards for:
      - Enumerating platforms, software flaws, and improper configurations;
      - Formatting and making transparent, checklists and test procedures; and
      - Measuring vulnerability impact;
- RA-5 -- Vulnerability Scanning (Control: Enhancements)
    - (1) The organization employs vulnerability scanning tools that include the capability to readily update the list of information system vulnerabilities scanned.
    - (2) The organization updates the list of information system vulnerabilities scanned [Assignment: organization-defined frequency] or when new vulnerabilities are identified and reported.
    - (5) The organization includes privileged access authorization to [Assignment: organization-identified information system components] for selected vulnerability scanning activities to facilitate more thorough scanning.
    - (6) The organization employs automated mechanisms to compare the results of vulnerability scans over time to determine trends in information system vulnerabilities.

This control and the specified technical controls within NIST 800-53 are the focus of this report.

## 4 Introduction

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On December 14, 2015, at 11:23 AM, a FISMA assessment was conducted using the SAINT 8.9.28 vulnerability scanner. The scan discovered a total of three live hosts, and detected ten critical problems, two areas of concern, and 24 potential problems. The hosts and problems detected are discussed in greater detail in the following sections.

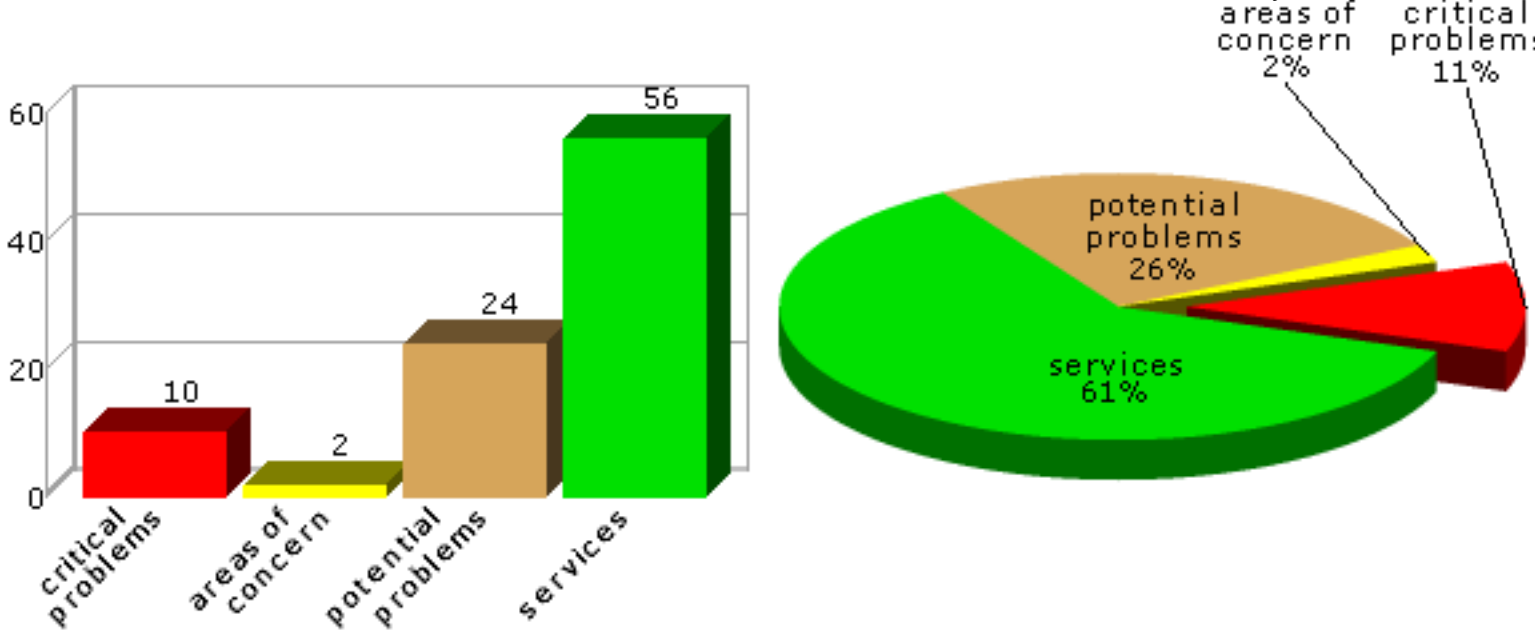
## 5 Summary

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The sections below summarize the results of the scan.

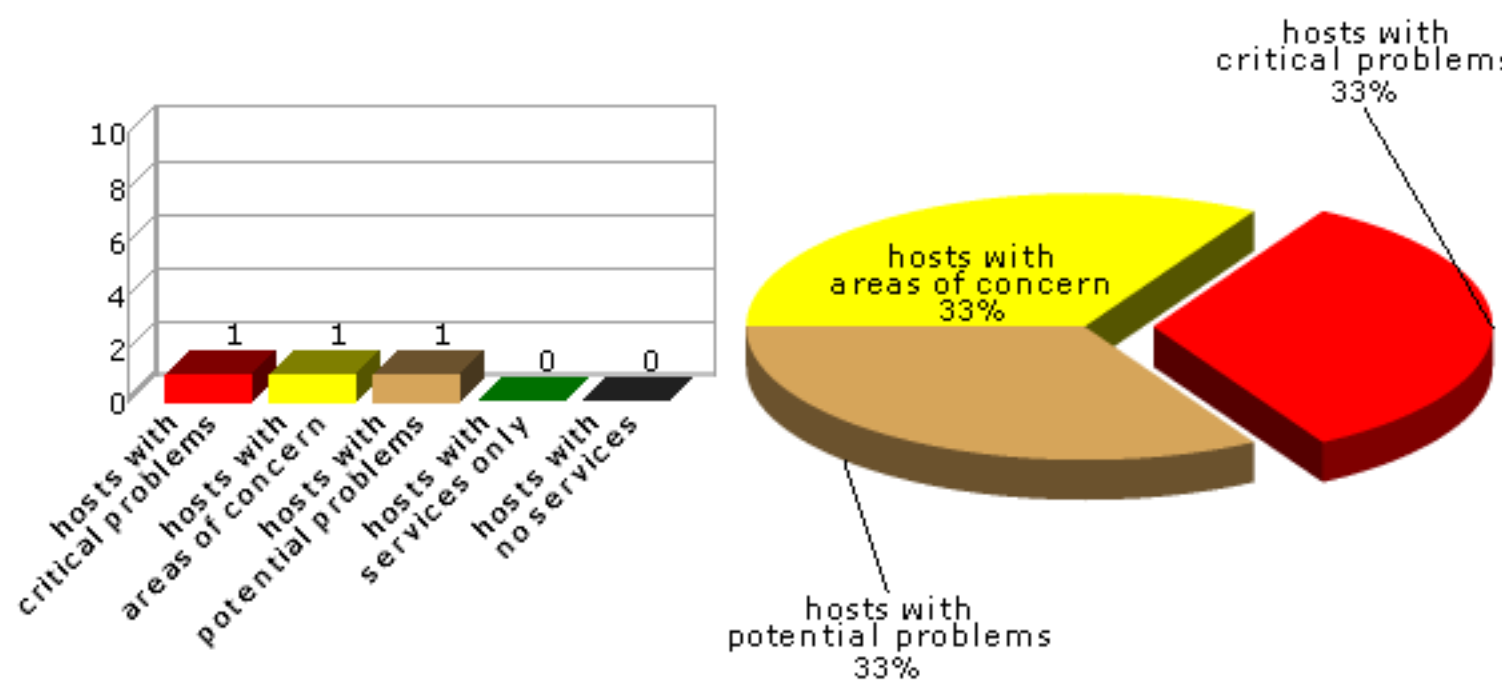
### 5.1 Vulnerabilities by Severity

This section shows the overall number of vulnerabilities and services detected at each severity level.



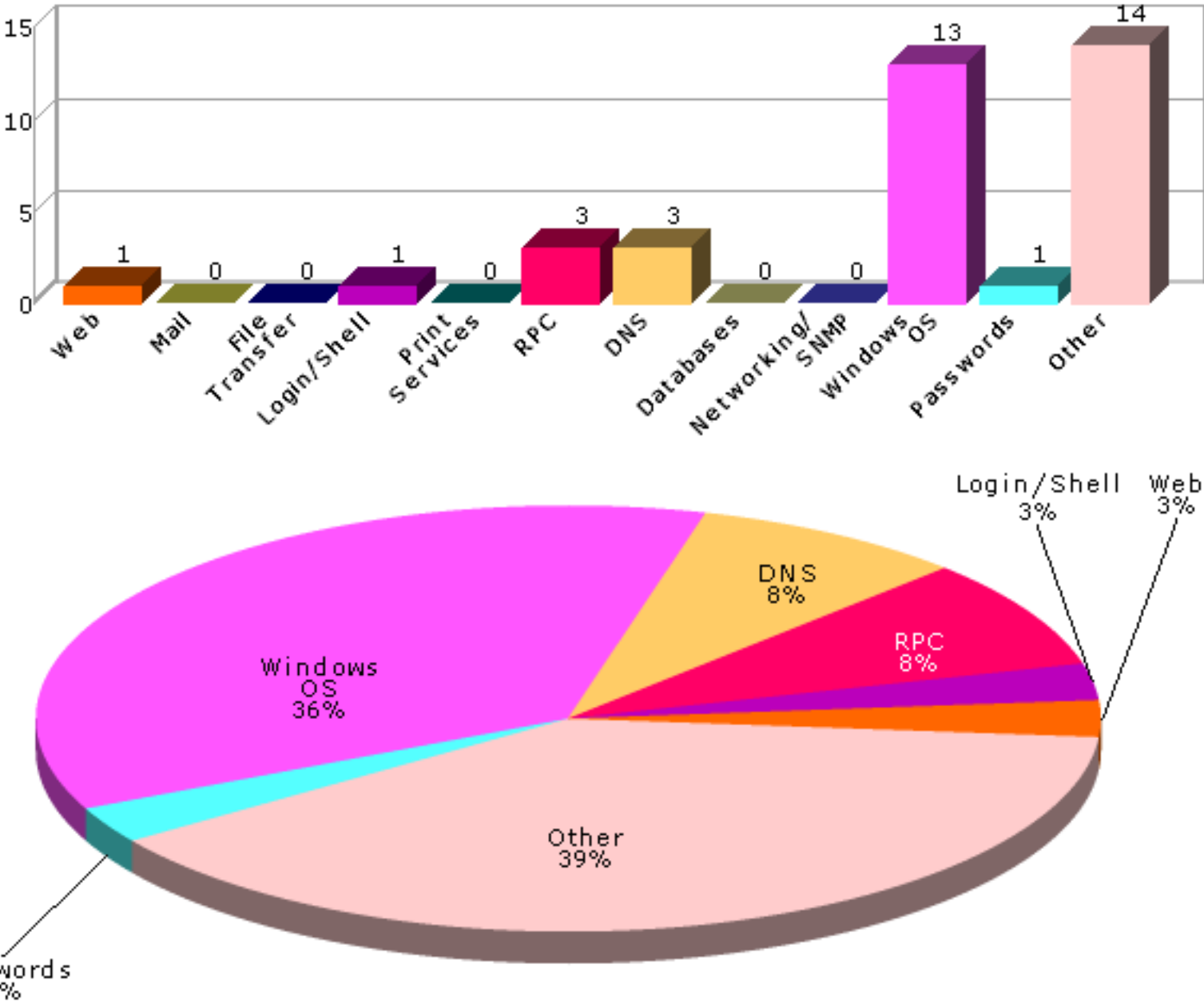
### 5.2 Hosts by Severity

This section shows the overall number of hosts detected at each severity level. The severity level of a host is defined as the highest vulnerability severity level detected on that host.



### 5.3 Vulnerabilities by Class

This section shows the number of vulnerabilities detected in each vulnerability class.



### 6 Overview

The following tables present an overview of the hosts discovered on the network and the vulnerabilities contained therein.

## 6.1 Host List

This table presents an overview of the hosts discovered on the network.

| Host Name                       | Netbios Name    | IP Address | Host Type              | Critical Problems | Areas of Concern | Potential Problems |
|---------------------------------|-----------------|------------|------------------------|-------------------|------------------|--------------------|
| saintlab02.sainttest.local      |                 | 10.8.0.2   | Cisco IOS 11.1         | 0                 | 0                | 4                  |
| xpprounpatched.sainttest.local  | XPPROUNPATCHED  | 10.8.0.14  | Windows XP             | 10                | 0                | 7                  |
| win-iqf3u12cja5.sainttest.local | WIN-IQF3U12CJA5 | 10.8.0.150 | Windows Server 2008 R2 | 0                 | 2                | 13                 |

## 6.2 Vulnerability List

This table presents an overview of the vulnerabilities detected on the network.

| Host Name                      | Port     | Severity  | Vulnerability / Service  | Class       | CVE   | Max. CVSSv2 Base Score |
|--------------------------------|----------|-----------|--|-------------|---|------------------------|
| saintlab02.sainttest.local     |          | potential | ICMP timestamp requests enabled  | Other       | <a href="#">CVE-1999-0524</a>   | 0.0                    |
| saintlab02.sainttest.local     | 80 /tcp  | potential | web server uses cleartext HTTP Basic authentication (/)                          | Web         |   | 2.6                    |
| saintlab02.sainttest.local     | 80 /tcp  | potential | Remote OS available  | Other       |   | 2.6                    |
| saintlab02.sainttest.local     | 23 /tcp  | potential | telnet receives cleartext passwords  | Login/Shell |   | 2.6                    |
| saintlab02.sainttest.local     | 23 /tcp  | service   | Telnet   |             |   |                        |
| saintlab02.sainttest.local     | 80 /tcp  | service   | WWW  |             |   |                        |
| saintlab02.sainttest.local     | 67 /udp  | service   | bootps (67/UDP)  |             |   |                        |
| xpprounpatched.sainttest.local | 139 /tcp | critical  | Windows account guest has no password  | Passwords   | <a href="#">CVE-1999-0504</a><br><a href="#">CVE-1999-0506</a>                                  | 7.5                    |
| xpprounpatched.sainttest.local | 139 /tcp | critical  | readable share at XPPROUNPATCHED/C   | Windows OS  | <a href="#">CVE-1999-0519</a><br><a href="#">CVE-1999-0520</a>                                  | 7.5                    |
| xpprounpatched.sainttest.local | 3389     | critical  | Microsoft Remote Desktop Protocol Remote Code Execution Vulnerability (MS12-020) | Windows OS  | <a href="#">CVE-2012-0002</a><br><a href="#">CVE-2012-0152</a>                                  | 9.3                    |
| xpprounpatched.sainttest.local | 139 /tcp | critical  | Multiple buffer overflows in SMB   | Windows OS  | <a href="#">CVE-2008-4114</a><br><a href="#">CVE-2008-4834</a><br><a href="#">CVE-2008-4835</a> | 10.0                   |
| xpprounpatched.sainttest.local | 139 /tcp | critical  | Over-the-network SMB packet vulnerability in Windows XP (MS10-054)               | Windows OS  | <a href="#">CVE-2010-2550</a>   | 10.0                   |
| xpprounpatched.sainttest.local | 139 /tcp | critical  | Windows SMB Server Transaction Vulnerability                                     | Windows OS  | <a href="#">CVE-2011-0661</a>   | 10.0                   |
| xpprounpatched.sainttest.local | 445 /tcp | critical  | Windows Server Service Buffer Overrun  | Windows OS  | <a href="#">CVE-2006-3439</a>   | 10.0                   |
| xpprounpatched.sainttest.local | 445 /tcp | critical  | Windows Server Service MS08-067 buffer overflow                                  | Windows OS  | <a href="#">CVE-2008-4250</a>   | 10.0                   |

|                                |              |           |   |            |  |      |
|--------------------------------|--------------|-----------|---|------------|--|------|
| xpprounpatched.sainttest.local | 139<br>/tcp  | critical  | vulnerable version of SMB Server (MS10-012)   | Windows OS | <a href="#">CVE-2010-0020</a><br><a href="#">CVE-2010-0021</a><br><a href="#">CVE-2010-0022</a><br><a href="#">CVE-2010-0231</a>   | 10.0 |
| xpprounpatched.sainttest.local |              | critical  | Guest account is possible sign of worm (Nimda)  | Other      |  | 10.0 |
| xpprounpatched.sainttest.local | 139<br>/tcp  | potential | AV Information: Anti-virus software is not installed or its presence could not be checked | Other      |  | 2.6  |
| xpprounpatched.sainttest.local |              | potential | ICMP timestamp requests enabled   | Other      | <a href="#">CVE-1999-0524</a>  | 0.0  |
| xpprounpatched.sainttest.local | 3389<br>/tcp | potential | Possible vulnerability in Microsoft Terminal Server                                       | Other      | <a href="#">CVE-2000-1149</a><br><a href="#">CVE-2001-0663</a><br><a href="#">CVE-2001-0716</a><br><a href="#">CVE-2002-0863</a><br><a href="#">CVE-2002-0864</a><br><a href="#">CVE-2005-1218</a> | 7.5  |
| xpprounpatched.sainttest.local | 139<br>/tcp  | potential | NetBIOS share enumeration using null session  | Windows OS |  | 2.6  |
| xpprounpatched.sainttest.local | 139<br>/tcp  | potential | Obsolete Windows Release: Windows XP  | Other      |  | 2.6  |
| xpprounpatched.sainttest.local | 3389         | potential | Microsoft Terminal Server allows weak encryption  | Other      |  | 2.6  |
| xpprounpatched.sainttest.local | 139<br>/tcp  | potential | SMB digital signing is disabled   | Windows OS |  | 2.6  |
| xpprounpatched.sainttest.local | 1026<br>/udp | service   | 1026/UDP  |            |  |      |
| xpprounpatched.sainttest.local | 139<br>/tcp  | service   | SMB   |            |  |      |
| xpprounpatched.sainttest.local | 80<br>/tcp   | service   | WWW   |            |  |      |
| xpprounpatched.sainttest.local | 1025<br>/udp | service   | blackjack (1025/UDP)  |            |  |      |
| xpprounpatched.sainttest.local | 135<br>/tcp  | service   | epmap (135/TCP)   |            |  |      |
| xpprounpatched.sainttest.local | 500<br>/udp  | service   | isakmp (500/UDP)  |            |  |      |
| xpprounpatched.sainttest.local | 445<br>/tcp  | service   | microsoft-ds (445/TCP)  |            |  |      |
| xpprounpatched.sainttest.local | 445<br>/udp  | service   | microsoft-ds (445/UDP)  |            |  |      |
| xpprounpatched.sainttest.local | 3389<br>/tcp | service   | ms-wbt-server (3389/TCP)  |            |  |      |
| xpprounpatched.sainttest.local | 138<br>/udp  | service   | netbios-dgm (138/UDP)   |            |  |      |
| xpprounpatched.sainttest.local | 137<br>/udp  | service   | netbios-ns (137/UDP)  |            |  |      |
| xpprounpatched.sainttest.local | 123<br>/udp  | service   | ntp (123/UDP)   |            |  |      |
| xpprounpatched.sainttest.local | 1900<br>/udp | service   | ssdp (1900/UDP)   |            |  |      |
| xpprounpatched.sainttest.local | 139<br>/tcp  | info      | OS=[Windows 5.1]<br>Server=[Windows 2000 LAN Manager]                                     |            |  |      |
| xpprounpatched.sainttest.local | 139<br>/tcp  | info      | Share: ADMIN\$  |            |  |      |
| xpprounpatched.sainttest.local | 139<br>/tcp  | info      | Share: C  |            |  |      |

|                                 |              |           |   |            |  |      |
|---------------------------------|--------------|-----------|---|------------|--|------|
| xpprounpatched.sainttest.local  | 139<br>/tcp  | info      | Share: C\$  |            |  |      |
| win-iqf3u12cja5.sainttest.local |              | concern   | DNS server allows zone transfers  | DNS        | <a href="#">CVE-1999-0532</a>  | 0.0  |
| win-iqf3u12cja5.sainttest.local | 1048<br>/tcp | concern   | NFS export list disclosure  | RPC        |  | 2.6  |
| win-iqf3u12cja5.sainttest.local | 389<br>/tcp  | potential | Possible buffer overflow in Active Directory  | Windows OS |  | 2.6  |
| win-iqf3u12cja5.sainttest.local | 139<br>/tcp  | potential | AV Information: Anti-virus software is not installed or its presence could not be checked | Other      |  | 2.6  |
| win-iqf3u12cja5.sainttest.local | 53<br>/tcp   | potential | DNS server allows recursive queries   | DNS        |  | 2.6  |
| win-iqf3u12cja5.sainttest.local |              | potential | ICMP timestamp requests enabled   | Other      | <a href="#">CVE-1999-0524</a>  | 0.0  |
| win-iqf3u12cja5.sainttest.local | 389<br>/tcp  | potential | Is your LDAP secure?  | Other      |  | 2.6  |
| win-iqf3u12cja5.sainttest.local | 139<br>/tcp  | potential | Windows null session domain SID disclosure  | Windows OS | <a href="#">CVE-2000-1200</a>  | 5.0  |
| win-iqf3u12cja5.sainttest.local | 139<br>/tcp  | potential | Windows null session host SID disclosure  | Windows OS |  | 2.6  |
| win-iqf3u12cja5.sainttest.local | 3389         | potential | Microsoft Terminal Server allows weak encryption  | Other      |  | 2.6  |
| win-iqf3u12cja5.sainttest.local | 1039<br>/tcp | potential | rpc.statd is enabled and may be vulnerable  | RPC        | <a href="#">CVE-1999-0018</a><br><a href="#">CVE-1999-0019</a><br><a href="#">CVE-1999-0210</a><br><a href="#">CVE-1999-0493</a><br><a href="#">CVE-2000-0666</a><br><a href="#">CVE-2000-0800</a> | 10.0 |
| win-iqf3u12cja5.sainttest.local | 111<br>/tcp  | potential | The sunrpc portmapper service is running  | Other      | <a href="#">CVE-1999-0632</a>  | 0.0  |
| win-iqf3u12cja5.sainttest.local | 111<br>/tcp  | potential | sunrpc services may be vulnerable   | RPC        | <a href="#">CVE-2002-0391</a><br><a href="#">CVE-2003-0028</a>   | 10.0 |
| win-iqf3u12cja5.sainttest.local | 1030<br>/tcp | potential | TCP timestamp requests enabled  | Other      |  | 2.6  |
| win-iqf3u12cja5.sainttest.local | 135<br>/tcp  | potential | Windows DNS Server RPC Management Interface Buffer Overflow                               | DNS        | <a href="#">CVE-2007-1748</a>  | 10.0 |
| win-iqf3u12cja5.sainttest.local | 1026<br>/tcp | service   | 1026/TCP  |            |  |      |
| win-iqf3u12cja5.sainttest.local | 1027<br>/tcp | service   | 1027/TCP  |            |  |      |
| win-iqf3u12cja5.sainttest.local | 1029<br>/tcp | service   | 1029/TCP  |            |  |      |
| win-iqf3u12cja5.sainttest.local | 1033<br>/tcp | service   | 1033/TCP  |            |  |      |
| win-iqf3u12cja5.sainttest.local | 1039<br>/tcp | service   | 1039/TCP  |            |  |      |
| win-iqf3u12cja5.sainttest.local | 1044<br>/tcp | service   | 1044/TCP  |            |  |      |
| win-iqf3u12cja5.sainttest.local | 9389<br>/tcp | service   | 9389/TCP  |            |  |      |
| win-iqf3u12cja5.sainttest.local | 53<br>/tcp   | service   | DNS   |            |  |      |
| win-iqf3u12cja5.sainttest.local |              | service   | NFS   |            |  |      |
| win-iqf3u12cja5.sainttest.local | 139<br>/tcp  | service   | SMB   |            |  |      |
| win-iqf3u12cja5.sainttest.local | 80<br>/tcp   | service   | WWW   |            |  |      |



|                                 |              |         |                              |
|---------------------------------|--------------|---------|------------------------------|
| win-iqf3u12cja5.sainttest.local | 443<br>/tcp  | service | WWW (Secure)                 |
| win-iqf3u12cja5.sainttest.local | 5985<br>/tcp | service | WWW (non-standard port 5985) |
| win-iqf3u12cja5.sainttest.local | 8059<br>/tcp | service | WWW (non-standard port 8059) |
| win-iqf3u12cja5.sainttest.local | 8082<br>/tcp | service | WWW (non-standard port 8082) |
| win-iqf3u12cja5.sainttest.local | 1025<br>/tcp | service | blackjack (1025/TCP)         |
| win-iqf3u12cja5.sainttest.local | 1050<br>/tcp | service | cma (1050/TCP)               |
| win-iqf3u12cja5.sainttest.local | 53<br>/udp   | service | domain (53/UDP)              |
| win-iqf3u12cja5.sainttest.local | 135<br>/tcp  | service | epmap (135/TCP)              |
| win-iqf3u12cja5.sainttest.local | 593<br>/tcp  | service | http-rpc-epmap (593/TCP)     |
| win-iqf3u12cja5.sainttest.local | 1030<br>/tcp | service | iad1 (1030/TCP)              |
| win-iqf3u12cja5.sainttest.local | 1031<br>/tcp | service | iad2 (1031/TCP)              |
| win-iqf3u12cja5.sainttest.local | 3260<br>/tcp | service | iscsi-target (3260/TCP)      |
| win-iqf3u12cja5.sainttest.local | 88<br>/tcp   | service | kerberos (88/TCP)            |
| win-iqf3u12cja5.sainttest.local | 464<br>/tcp  | service | kpasswd (464/TCP)            |
| win-iqf3u12cja5.sainttest.local | 389<br>/tcp  | service | ldap (389/TCP)               |
| win-iqf3u12cja5.sainttest.local | 4345<br>/tcp | service | m4-network-as (4345/TCP)     |
| win-iqf3u12cja5.sainttest.local | 445<br>/tcp  | service | microsoft-ds (445/TCP)       |
| win-iqf3u12cja5.sainttest.local | 3389<br>/tcp | service | ms-wbt-server (3389/TCP)     |
| win-iqf3u12cja5.sainttest.local | 3268<br>/tcp | service | msft-gc (3268/TCP)           |
| win-iqf3u12cja5.sainttest.local | 3269<br>/tcp | service | msft-gc-ssl (3269/TCP)       |
| win-iqf3u12cja5.sainttest.local | 1047<br>/tcp | service | neod1 (1047/TCP)             |
| win-iqf3u12cja5.sainttest.local | 1048<br>/tcp | service | neod2 (1048/TCP)             |
| win-iqf3u12cja5.sainttest.local | 137<br>/udp  | service | netbios-ns (137/UDP)         |
| win-iqf3u12cja5.sainttest.local | 1092<br>/tcp | service | obrpd (1092/TCP)             |
| win-iqf3u12cja5.sainttest.local | 1093<br>/tcp | service | proofd (1093/TCP)            |
| win-iqf3u12cja5.sainttest.local | 2049<br>/tcp | service | shilp (2049/TCP)             |
| win-iqf3u12cja5.sainttest.local | 636<br>/tcp  | service | ssl-ldap (636/TCP)           |
| win-iqf3u12cja5.sainttest.local | 111<br>/tcp  | service | sunrpc (111/TCP)             |
| win-iqf3u12cja5.sainttest.local | 4343<br>/tcp | service | unicall (4343/TCP)           |

|                                 |     |      |   |
|---------------------------------|-----|------|---|
| win-iqf3u12cja5.sainttest.local | 139 | info | Netbios Attribute: Domain Controller  |
| win-iqf3u12cja5.sainttest.local | 139 | info | Netbios Attribute: Master Browser   |
| win-iqf3u12cja5.sainttest.local | 139 | info | Netbios Attribute: Primary Domain Controller  |
| win-iqf3u12cja5.sainttest.local | 139 | info | OS=[Windows Server 2008 R2 Enterprise 7600]<br>Server=[Windows Server 2008 R2 Enterprise 6.1] |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100000-2 portmapper (111/TCP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100000-2 portmapper (111/UDP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100000-3 portmapper (111/TCP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100000-3 portmapper (111/UDP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100000-4 portmapper (111/TCP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100000-4 portmapper (111/UDP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100003-2 nfs (2049/TCP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100003-2 nfs (2049/UDP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100003-3 nfs (2049/TCP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100003-3 nfs (2049/UDP)  |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100005-1 mountd (1048/TCP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100005-1 mountd (1048/UDP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100005-2 mountd (1048/TCP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100005-2 mountd (1048/UDP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100005-3 mountd (1048/TCP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100005-3 mountd (1048/UDP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100021-1 nlockmgr (1047/TCP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100021-1 nlockmgr (1047/UDP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100021-2 nlockmgr (1047/TCP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100021-2 nlockmgr (1047/UDP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100021-3 nlockmgr (1047/TCP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100021-3 nlockmgr (1047/UDP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100021-4 nlockmgr (1047/TCP)   |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100021-4 nlockmgr (1047/UDP)   |

|                                 |     |      |   |
|---------------------------------|-----|------|---|
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100024-1 status (1039/TCP) |
| win-iqf3u12cja5.sainttest.local | 111 | info | RPC service: 100024-1 status (1039/UDP) |

## 7 Details

The following sections provide details on the specific vulnerabilities detected on each host.

### 7.1 saintlab02.sainttest.local

**IP Address:** 10.8.0.2

**Host type:** Cisco IOS 11.1

**Scan time:** Dec 14 11:23:26 2015

#### ICMP timestamp requests enabled

**Severity:** Potential Problem

**CVE:** CVE-1999-0524

#### Impact

A remote attacker could obtain sensitive information about the network.

#### Resolution

Configure the system or firewall not to allow ICMP timestamp requests (message type 13) or ICMP netmask requests (message type 17). Instructions for doing this on specific platforms are as follows:

#### Windows:

Block these message types using the Windows firewall as described in [Microsoft TechNet](#).

#### Linux:

Use ipchains or iptables to filter ICMP netmask requests using the command:

```
ipchains -A input -p icmp --icmp-type address-mask-request -j DROP
```

Use ipchains or iptables to filter ICMP timestamp requests using the commands:

```
ipchains -A input -p icmp --icmp-type timestamp-request -j DROP
ipchains -A output -p icmp --icmp-type timestamp-reply -j DROP
```

To ensure that this change persists after the system reboots, put the above command into the system's boot-up script (typically `/etc/rc.local`).

#### Cisco:

Block ICMP message types 13 and 17 as follows:

```
deny icmp any any 13
deny icmp any any 17
```

#### Where can I read more about this?

For more information about ICMP, see [RFC792](#).

## Technical Details

Service: icmp  
timestamp=8020a08a

### web server uses cleartext HTTP Basic authentication (/)

**Severity:** Potential Problem

#### Impact

Poor authentication practices may leave the web application vulnerable to authentication attacks.

#### Resolution

To use HTML form-based authentication more securely in web applications, do the following:

- Remove the `value` attribute from the `INPUT` tag corresponding to the password field.
- Submit all forms to an SSL-enabled (*https*) service using the form's `action` attribute.
- Place all protected web directories on an SSL-enabled (*https*) service.
- Use the `autocomplete="off"` attribute in the `INPUT` tag corresponding to the password field.
- Use the `POST` method to submit forms containing passwords.

#### Where can I read more about this?

Additional information on the `INPUT` element is in the HTML 4.01 Specification, [Section 17.4](#).

For more information on HTTPS, see [whatis.com](#).

For more information on the autocomplete feature in HTML, see [HTML Code Tutorial](#).

## Technical Details

Service: http  
Received:  
WWW-Authenticate: Basic realm="level\_15\_access"

### Remote OS available

**Severity:** Potential Problem

#### Impact

The ability to detect which operating system is running on a machine enables attackers to be more accurate in attacks.

#### Resolution

Including the operating system in service banners is usually unnecessary. Therefore, change the banners of the services which are running on accessible ports. This can be done by disabling unneeded services, modifying the banner in a service's source code or configuration file if possible, or using TCP wrappers to modify the banner as described in the [Red Hat Knowledgebase](#).

#### Where can I read more about this?

An example of ways to remove the Remote OS and other information is at [my digital life](#).

### Technical Details

Service: http  
Received:  
Server: cisco-IOS

### telnet receives cleartext passwords

**Severity:** Potential Problem

#### Impact

Passwords could be stolen if an attacker is able to capture network traffic to and from the telnet server.

#### Resolution

Disable the telnet service and use a more secure protocol such as SSH to access the computer remotely. If telnet cannot be disabled, restrict access using iptables or TCP Wrappers such that only addresses on a local, trusted network can connect.

#### Where can I read more about this?

For more information, see [Protocols - The Problem With Cleartext](#).

### Technical Details

Service: telnet  
telnet service is enabled

### Telnet

**Severity:** Service

### Technical Details

### WWW

**Severity:** Service

### Technical Details

HTTP/1.1 401 Unauthorized  
Date: Mon, 19 Jul 1993 00:31:18 GMT  
Server: cisco-IOS  
Accept-Ranges: none  
WWW-Authenticate: Basic realm="level\_15\_access"  
401

### bootps (67/UDP)

**Severity:** Service

### Technical Details

## 7.2 xpprounpatched.sainttest.local

**IP Address:** 10.8.0.14  
**Scan time:** Dec 14 11:23:26 2015

**Host type:** Windows XP  
**Netbios Name:** XPPROUNPATCHED

### Windows account guest has no password

**Severity:** Critical Problem **CVE:** CVE-1999-0504 CVE-1999-0506

#### Impact

An attacker who is able to guess the password to a user account could gain shell access to the system with the privileges of the user. From there it is often trivial to gain complete control of the system.

#### Resolution

Protect all accounts with a password that cannot be guessed. Require users to choose passwords which are eight characters long, including numeric and non-alphanumeric characters, and which are not based on the login name or any other personal information about the user. Enforce this policy using a utility such as [npasswd](#) in place of the default UNIX `passwd` program. Check the strength of all account passwords periodically using a password cracking utility such as [Crack](#) for Unix.

For Cisco 2700 Series Wireless Location Appliance, change the password or mitigate as described in [cisco-air-20061013-wla](#).

#### Where can I read more about this?

Walter Belgers' paper, [UNIX password security](#), is a good reference on strengthening passwords.

The Cisco 2700 Series WLA default password was described in [cisco-sa-2006-1012-wla](#) and [Bugtraq ID 20490](#).

The IBM Totalstorage DS400 default password was posted to [Full Disclosure](#).

#### Technical Details

Service: netbios-ssn  
guest:(empty)

### readable share at XPPROUNPATCHED/C

**Severity:** Critical Problem **CVE:** CVE-1999-0519 CVE-1999-0520

#### Impact

On Windows (95, 98, NT), OS/2 and Linux machines (running [SAMBA](#)), malicious users may be able to gain access to world-viewable, or open, shared directories. Once access has been gained, a hacker might be able to read any information found in the directory. A malicious user may also be able to write information to the open directory. As a result, sensitive information may be compromised and important system files may be deleted or modified. Also, [trojan horse](#) programs may be placed on a compromised directory and then inadvertently run by genuine users, causing damage to the target system. The amount of damage that could be done by a hacker exploiting this vulnerability is only limited by the hacker's imagination and by the importance of the files/

information found in the compromised directory.

## Resolution

For machines running Windows NT, the resolution to this vulnerability is to disable **SMB** over the Internet. This service may be disabled by accessing it through the **Network Properties** dialog boxes in the **Control Panel**.

For those who find this resolution impractical (or not applicable), the key to minimizing the inherent risks associated with using shared resources via the Internet is to have a thorough understanding of the security measures that must be implemented when setting up the shares. For instance, when creating shared resources on a Windows 95/98 machine, use User Level Access instead of Share Level Access controls. User Level Access asks a user for a username and password before allowing access to the resource in question, where as Share Level Access allows anyone with access to the network to use shared resources. When creating shared resources on a Windows NT machine, it is important to assign rights to users of shared directories judiciously. For example, the default setting for any shared directory created on an NT system is for everyone to have full control of the data contained therein (meaning, of course, that all users on the network will be able to view, modify or delete data found in the shared directory). It is up to the creator of the shared directory (usually the administrator) to choose which users have access and what level of access they should have. Understanding and mastering Windows NT and OS/2 file and directory level security can be a difficult task, but is certainly one well worth undertaking. As with many security issues, the best defense against this vulnerability is knowledge.

## Other tips

There are perhaps hundreds of books dedicated to OS/2, Windows NT/98/95/3.11 and Linux **SAMBA** security issues. While no one book will be recommended here, chances are that a colleague will have a few suggestions, as well might the many World Wide Web sites dedicated to security issues (see below).

## Where can I read more about this?

To view a listing of sites dedicated to Windows NT security, and listings and reviews of security related books, visit the [NTSecurity](#) page. Another good site dealing with NT Security is Microsoft's [Security Advisor](#). OS/2 security information can be found in many of the newsgroups and web sites dedicated to OS/2 issues. Visit [OS/2 WWW Homepage](#) for a comprehensive listing of OS/2 web sites, usergroups, newsgroups and OS/2 related tips and information.

## Technical Details

Service: netbios-ssn

Received:

Domain=[SAINTTEST] OS=[Windows 5.1] Server=[Windows 2000 LAN Manager]

.rnd A 1024 Fri Aug 31 12:46:49 2012

7249278ea4ada0ae4bf7a3 D 0 Fri May 7 12:41:27 2010

AUTOEXEC.BAT A 0 Tue Mar 2 14:46:27 2010

boot.ini AHSR 212 Fri Jun 25 14:39:27 2010

CONFIG.SYS A 0 Tue Mar 2 14:46:27 2010

Documents and Settings D 0 Wed Dec 26

## Microsoft Remote Desktop Protocol Remote Code Execution Vulnerability (MS12-020)

**Severity:** Critical Problem

**CVE:** CVE-2012-0002 CVE-2012-0152

## Impact

The absence of critical updates leads to the potential for denial of service or unauthorized access by attackers or malicious web sites.

## The Problems and Resolutions

One or more of the following security updates is not installed on the target system. The resolution is to install the needed updates. This can be done either by following the links in the table, or by visiting the [Windows Update](#) service which will automatically determine which updates are needed for your system and help you install them. It is a good idea to make a backup of the system before installing an update, especially for service packs. After the system has been brought up to date, check Microsoft's web site regularly for new critical updates.

*Note:* The links below apply to the standard editions of Windows operating systems. If you are using a Terminal Server edition, a 64-bit edition, or a non-Intel edition which is not listed, consult the corresponding Microsoft Security Bulletins for patch information.

| Update Name   | Description  | Fix  | Bulletin               |
|---|--|--|------------------------|
| MS Remote Desktop Could Allow Remote Code Execution Vulnerabilities | Fixed Remote Code Execution Vulnerabilities in the Remote Desktop Protocol. If exploited, an attacker could run arbitrary code on the target system, then install programs; view, change, or delete data; or create new accounts with full user rights.<br>( <a href="#">CVE 2012-0002</a> , <a href="#">CVE 2012-0152</a> ) | <a href="#">KB2621440</a> and <a href="#">KB2621402</a><br><b>XP:</b> 32-bit, 64-bit<br><b>2003:</b> 32-bit, 64-bit, Itanium<br><b>Vista:</b> 32-bit, 64-bit<br><b>2008:</b> 32-bit, 64-bit, Itanium<br><b>2008 R2:</b> 64-bit(1), 64-bit(2), Itanium(1), Itanium(2)<br><b>Win 7:</b> 32-bit(1), 32-bit(2), 64-bit(1), 64-bit(2) | <a href="#">12-020</a> |

### Where can I read more about this?

For more information on critical updates, see the Windows critical update pages which are available for [Windows XP](#), [Windows Vista](#), [Windows Server 2003](#), [Windows 7](#), [Windows Server 2008](#) and [Windows Server 2008 R2](#), [Windows 8.1](#), [Windows 10](#), and [Windows Server 2012](#) and [Windows Server 2012 R2](#).

### Technical Details

Service: 3389  
rdp server allows connect to unfreed channels. No error code at byte eight.

## Multiple buffer overflows in SMB

**Severity:** Critical Problem

**CVE:** [CVE-2008-4114](#) [CVE-2008-4834](#)  
[CVE-2008-4835](#)

### Impact



The absence of critical updates leads to the potential for denial of service or unauthorized access by attackers or malicious web sites.

## The Problems and Resolutions

One or more of the following security updates is not installed on the target system. The resolution is to install the needed updates. This can be done either by following the links in the table, or by visiting the [Windows Update](#) service which will automatically determine which updates are needed for your system and help you install them. It is a good idea to make a backup of the system before installing an update, especially for service packs. After the system has been brought up to date, check Microsoft's web site regularly for new critical updates.

*Note:* The links below apply to the standard editions of Windows operating systems. If you are using a Terminal Server edition, a 64-bit edition, or a non-Intel edition which is not listed, consult the corresponding Microsoft Security Bulletins for patch information.

| Update Name                          | Description   | Fix   | Bulletin               |
|--------------------------------------|---|---|------------------------|
| Multiple Windows SMB vulnerabilities | Fixes multiple SMB buffer overflow vulnerabilities that could give an attacker administrative rights to the system. ( <a href="#">CVE 2008-4114</a> <a href="#">CVE 2008-4834</a> <a href="#">CVE 2008-4835</a> ) | <b>2000:</b> <a href="#">958687</a> (32 bit)<br><b>XP:</b> <a href="#">958687</a> (32 bit) or <a href="#">958687</a> (64 bit)<br><b>2003:</b> <a href="#">958687</a> (32 bit), <a href="#">958687</a> (64 bit), or <a href="#">958687</a> Itanium<br><b>Vista:</b> <a href="#">958687</a> (32 bit) or <a href="#">958687</a> (64 bit)<br><b>2008:</b> <a href="#">958687</a> (32 bit), <a href="#">958687</a> (64 bit), or <a href="#">958687</a> Itanium | <a href="#">09-001</a> |

## Where can I read more about this?

For more information on critical updates, see the Windows critical update pages which are available for [Windows XP](#), [Windows Vista](#), [Windows Server 2003](#), [Windows 7](#), [Windows Server 2008](#) and [Windows Server 2008 R2](#), [Windows 8.1](#), [Windows 10](#), and [Windows Server 2012](#) and [Windows Server 2012 R2](#).

## Technical Details

Service: netbios  
 Target accepts specially crafted SMB call

## Over-the-network SMB packet vulnerability in Windows XP (MS10-054)

**Severity:** Critical Problem **CVE:** CVE-2010-2550

## Impact

The absence of critical updates leads to the potential for denial of service or unauthorized access by attackers or malicious web sites.

## The Problems and Resolutions

One or more of the following security updates is not installed on the target system. The resolution is to install the needed updates. This can be done either by following the links in the table, or by visiting the [Windows Update](#) service which will automatically determine which updates are needed for your system and help you install them. It is a good idea to make a backup of the system before installing an update, especially for service packs. After the system has been brought up to date, check Microsoft's web site regularly for new critical updates.

*Note:* The links below apply to the standard editions of Windows operating systems. If you are using a Terminal Server edition, a 64-bit edition, or a non-Intel edition which is not listed, consult the corresponding Microsoft Security Bulletins for patch information.

| Update Name  | Description   | Fix  | Bulletin               |
|--|---|--|------------------------|
| Over-the-network SMB packet vulnerabilities in Windows | Fixes 3 vulnerabilities announced in Microsoft bulletin MS10-054, the most critical of which could allow remote code execution. (CVE 2010-2550 CVE 2010-2551 CVE 2010-2552) | <b>XP:</b> <a href="#">982214</a><br><b>2003:</b> <a href="#">982214</a><br><b>Vista:</b> <a href="#">982214</a><br><b>2008:</b> <a href="#">982214</a><br><b>7:</b> <a href="#">982214</a><br><b>2008 R2:</b><br><a href="#">982214</a> | <a href="#">10-054</a> |

### Where can I read more about this?

For more information on critical updates, see the Windows critical update pages which are available for [Windows XP](#), [Windows Vista](#), [Windows Server 2003](#), [Windows 7](#), [Windows Server 2008](#) and [Windows Server 2008 R2](#), [Windows 8.1](#), [Windows 10](#), and [Windows Server 2012](#) and [Windows Server 2012 R2](#).

### Technical Details

Service: netbios  
target is vulnerable to MS09-001 which implies target is vulnerable to MS10-054

## Windows SMB Server Transaction Vulnerability

**Severity:** Critical Problem

**CVE:** CVE-2011-0661

### Impact

The absence of critical updates leads to the potential for denial of service or unauthorized access by attackers or malicious web sites.

## The Problems and Resolutions

One or more of the following security updates is not installed on the target system. The resolution is to install the needed updates. This can be done either by following the links in the table, or by visiting the [Windows Update](#) service which will automatically determine which updates are needed for your system and help you install them. It is a good idea to make a backup of the system before installing an update, especially for service packs. After the system has been brought up to date, check Microsoft's web site regularly for new critical updates.

*Note:* The links below apply to the standard editions of Windows operating systems. If you are using a Terminal Server edition, a 64-bit edition, or a non-Intel edition which is not listed, consult the corresponding

Microsoft Security Bulletins for patch information.

| Update Name                                  | Description  | Fix   | Bulletin |
|--|--|---|----------|
| Windows SMB Server Transaction Vulnerability | Fixes multiple vulnerabilities in SMB server and SMB client which could allow remote code execution. (CVE 2011-0661) | <b>XP:</b> 2508429 (32-bit), 2508429 (64-bit)<br><b>2003:</b> 2508429 (32-bit), 2508429 (64-bit),<br><b>Vista:</b> 2508429 (32-bit), 2508429 (64-bit),<br><b>2008:</b> 2508429 (32-bit), 2508429 (64-bit),<br><b>Windows 7:</b> 2508429 (32-bit), 2508429 (64-bit),<br><b>Windows 7 SP1:</b> 2508429 (32-bit), 2508429 (64-bit),<br><b>2008 R2:</b> 2508429 (64-bit),<br><b>2008 R2 SP1:</b> 2508429 (64-bit) | 11-020   |

### Where can I read more about this?

For more information on critical updates, see the Windows critical update pages which are available for [Windows XP](#), [Windows Vista](#), [Windows Server 2003](#), [Windows 7](#), [Windows Server 2008](#) and [Windows Server 2008 R2](#), [Windows 8.1](#), [Windows 10](#), and [Windows Server 2012](#) and [Windows Server 2012 R2](#).

### Technical Details

Service: netbios  
Remote host responded with INVALID PARAMETER (x42\x2e)

## Windows Server Service Buffer Overrun

**Severity:** Critical Problem

**CVE:** CVE-2006-3439

### Impact

The absence of critical updates leads to the potential for denial of service or unauthorized access by attackers or malicious web sites.

### The Problems and Resolutions

One or more of the following security updates is not installed on the target system. The resolution is to install the needed updates. This can be done either by following the links in the table, or by visiting the [Windows Update](#) service which will automatically determine which updates are needed for your system and help you install them. It is a good idea to make a backup of the system before installing an update, especially for service packs. After the system has been brought up to date, check Microsoft's web site regularly for new

critical updates.

*Note:* The links below apply to the standard editions of Windows operating systems. If you are using a Terminal Server edition, a 64-bit edition, or a non-Intel edition which is not listed, consult the corresponding Microsoft Security Bulletins for patch information.

| <b>Update Name</b>            | <b>Description</b>  | <b>Fix</b>  | <b>Bulletin</b>        |
|-------------------------------|---|---|------------------------|
| Server Service Buffer Overrun | Fixes a vulnerability which could allow command execution on a buffer overrun on the Server Service ( <a href="#">CVE 2006-3439</a> ) | <b>2000:</b> <a href="#">921883</a><br><b>XP:</b> <a href="#">921883</a><br><b>2003:</b> <a href="#">921883</a> or<br><a href="#">SP2</a> | <a href="#">06-040</a> |

### Where can I read more about this?

For more information on critical updates, see the Windows critical update pages which are available for [Windows XP](#), [Windows Vista](#), [Windows Server 2003](#), [Windows 7](#), [Windows Server 2008](#) and [Windows Server 2008 R2](#), [Windows 8.1](#), [Windows 10](#), and [Windows Server 2012](#) and [Windows Server 2012 R2](#).

### Technical Details

Service: 445:TCP

Sent netrpPathCanonicalize call, response indicates patch not applied

## Windows Server Service MS08-067 buffer overflow

**Severity:** Critical Problem

**CVE:** CVE-2008-4250

### Impact

The absence of critical updates leads to the potential for denial of service or unauthorized access by attackers or malicious web sites.

### The Problems and Resolutions

One or more of the following security updates is not installed on the target system. The resolution is to install the needed updates. This can be done either by following the links in the table, or by visiting the [Windows Update](#) service which will automatically determine which updates are needed for your system and help you install them. It is a good idea to make a backup of the system before installing an update, especially for service packs. After the system has been brought up to date, check Microsoft's web site regularly for new critical updates.

*Note:* The links below apply to the standard editions of Windows operating systems. If you are using a Terminal Server edition, a 64-bit edition, or a non-Intel edition which is not listed, consult the corresponding Microsoft Security Bulletins for patch information.

| <b>Update Name</b>                              | <b>Description</b>   | <b>Fix</b>   | <b>Bulletin</b>        |
|---|--|--|------------------------|
| Windows Server Service MS08-067 buffer overflow | Fixes a buffer overflow in the Windows Server service which could allow remote attackers to take complete control of the computer. ( <a href="#">CVE 2008-4250</a> ) | <b>2000:</b> <a href="#">958644</a><br><b>XP:</b> <a href="#">958644</a><br><b>2003:</b> <a href="#">958644</a><br><b>Vista:</b> <a href="#">958644</a><br><b>2008:</b> <a href="#">958644</a> | <a href="#">08-067</a> |

### Where can I read more about this?

For more information on critical updates, see the Windows critical update pages which are available for [Windows XP](#), [Windows Vista](#), [Windows Server 2003](#), [Windows 7](#), [Windows Server 2008](#) and [Windows Server 2008 R2](#), [Windows 8.1](#), [Windows 10](#), and [Windows Server 2012](#) and [Windows Server 2012 R2](#).

## Technical Details

Service: 445:TCP  
 NetprPathCompare returned 0

### vulnerable version of SMB Server (MS10-012)

**Severity:** Critical Problem

**CVE:** CVE-2010-0020 CVE-2010-0021  
 CVE-2010-0022 CVE-2010-0231

### Impact

The absence of critical updates leads to the potential for denial of service or unauthorized access by attackers or malicious web sites.

### The Problems and Resolutions

One or more of the following security updates is not installed on the target system. The resolution is to install the needed updates. This can be done either by following the links in the table, or by visiting the [Windows Update](#) service which will automatically determine which updates are needed for your system and help you install them. It is a good idea to make a backup of the system before installing an update, especially for service packs. After the system has been brought up to date, check Microsoft's web site regularly for new critical updates.

*Note:* The links below apply to the standard editions of Windows operating systems. If you are using a Terminal Server edition, a 64-bit edition, or a non-Intel edition which is not listed, consult the corresponding Microsoft Security Bulletins for patch information.

| Update Name                         | Description   | Fix  | Bulletin               |
|-------------------------------------|---|--|------------------------|
| Multiple vulnerabilities (MS10-012) | Fixes 4 vulnerabilities announced in Microsoft bulletin MS10-012, the most critical of which could allow remote code execution. The vulnerabilities are due to weak entropy used in encryption, bounds checking on path names, and null pointers. (CVE 2010-0020 CVE 2010-0021 CVE 2010-0022 CVE 2010-0231) | <b>2000 (all versions):</b><br><a href="#">971468</a><br><b>XP: 971468</b><br><b>2003 (all versions):</b><br><a href="#">971468</a><br><b>Vista (all versions):</b><br><a href="#">971468</a><br><b>Windows 7 (all versions):</b><br><a href="#">971468</a><br><b>2008 (all versions):</b><br><a href="#">971468</a> | <a href="#">10-012</a> |

### Where can I read more about this?

For more information on critical updates, see the Windows critical update pages which are available for

Windows XP, [Windows Vista](#), [Windows Server 2003](#), [Windows 7](#), [Windows Server 2008](#) and [Windows Server 2008 R2](#), [Windows 8.1](#), [Windows 10](#), and [Windows Server 2012](#) and [Windows Server 2012 R2](#).

## Technical Details

Service: netbios  
Duplicate NTLM negotiation keys detected

## Guest account is possible sign of worm (Nimda)

**Severity:** Critical Problem

### Impact

There is evidence that the system has been penetrated by an Internet worm. Files or system information may have been transmitted to remote parties, unauthorized file modifications may have taken place, and backdoors allowing unauthorized access may be present. Furthermore, it is likely that the system is being used as a potential launching point for further propagation of the worm across the network.

### Resolution

The paragraphs below explain how to remove a worm from an infected system. However, removal of the worm does not solve the problem at its roots. The presence of the worm is evidence that a critical vulnerability exists on the host. The system should be taken offline until it is certain that the vulnerable services are upgraded to the latest, patched versions.

Since the **Nimda** worm makes extensive changes to the system, an entire infected system should be deleted and reinstalled. Be sure to install all necessary patches before re-connecting the machine to the network. See Microsoft Security Bulletins [01-020](#), [01-027](#), and [01-044](#).

### Where can I read more about this?

The Nimda worm was reported in [CERT Advisory 2001-26](#) and [CIRC Bulletin L-144](#).

More information on Nimda.E is available from [Symantec](#).

For general information about worms and how they differ from viruses, see the [Symantec AntiVirus Research Center](#).

## Technical Details

Service: backdoor

## AV Information: Anti-virus software is not installed or its presence could not be checked

**Severity:** Potential Problem

### Impact

The system may be susceptible to viruses, worms, and other types of malware.

### Resolution

Install and enable anti-virus software. Turn on automatic updates and periodic scans. Enable logging.

If an anti-virus server or manager is present, make sure that all clients can communicate with it so that the client is as up to date as possible and can send crucial information to the master installation.

If more information is needed about the anti-virus software running on the network and a server or manager is present, it is a good place to look for information about the anti-virus clients.

If more than one instance of anti-virus software is installed on a system, remove all but one. Multiple anti-virus programs may interfere with each other and cause the system to run poorly.

### Where can I read more about this?

For additional information about viruses and anti-virus products, see [Virus Bulletin](#).

### Technical Details

Service: netbios  
no registry access

## ICMP timestamp requests enabled

**Severity:** Potential Problem

**CVE:** CVE-1999-0524

### Impact

A remote attacker could obtain sensitive information about the network.

### Resolution

Configure the system or firewall not to allow ICMP timestamp requests (message type 13) or ICMP netmask requests (message type 17). Instructions for doing this on specific platforms are as follows:

#### Windows:

Block these message types using the Windows firewall as described in [Microsoft TechNet](#).

#### Linux:

Use ipchains or iptables to filter ICMP netmask requests using the command:

```
ipchains -A input -p icmp --icmp-type address-mask-request -j DROP
```

Use ipchains or iptables to filter ICMP timestamp requests using the commands:

```
ipchains -A input -p icmp --icmp-type timestamp-request -j DROP  
ipchains -A output -p icmp --icmp-type timestamp-reply -j DROP
```

To ensure that this change persists after the system reboots, put the above command into the system's boot-up script (typically `/etc/rc.local`).

#### Cisco:

Block ICMP message types 13 and 17 as follows:

```
deny icmp any any 13  
deny icmp any any 17
```

/pre>

### Where can I read more about this?

For more information about ICMP, see [RFC792](#).

### Technical Details

Service: icmp  
timestamp=04808003

## Possible vulnerability in Microsoft Terminal Server

**Severity:** Potential Problem

**CVE:** CVE-2000-1149 CVE-2001-0663  
CVE-2001-0716 CVE-2002-0863  
CVE-2002-0864 CVE-2005-1218

### Impact

Vulnerabilities in Microsoft Windows Terminal Server and Remote Desktop could allow a remote attacker to execute arbitrary code or crash the server, or could allow an attacker who is able to capture network traffic to decrypt sessions.

### Resolution

There is no fix available to protect against the man-in-the-middle attack. Therefore, Terminal Services should only be used on trusted networks.

For Windows NT 4.0 Terminal Server Edition, apply the patches referenced in Microsoft Security Bulletins [00-087](#) and [01-052](#). There is no fix available for the denial of service vulnerability on Windows NT.

For Windows 2000, apply the patches referenced in Microsoft Security Bulletins [01-052](#), [02-051](#), and [05-041](#).

For Windows XP, apply the patches referenced in Microsoft Security Bulletins [02-051](#) and [05-041](#).

For Windows Server 2003, apply the patch referenced in Microsoft Security Bulletin [05-041](#).

For Citrix MetaFrame, download a hotfix from the [Citrix Solution Knowledge Base](#), under *Hotfixes*.

It is also a good idea to filter TCP port 3389 at the firewall or router, such that only connections from legitimate users will be accepted.

### Where can I read more about this?

For more information, see Microsoft Security Bulletins [00-087](#), [01-052](#), [02-051](#), and [05-041](#), and [Bugtraq](#).

For more information on the Citrix MetaFrame vulnerability, see the [Bugtraq ID 3440](#).

### Technical Details

Service: ms-wbt-server  
port 3389/tcp open and KB899591 not applied or could not be checked

## NetBIOS share enumeration using null session



## Severity: Potential Problem

### Impact

A remote attacker could gain a list of shared resources or user names on the system.

### Resolution

Mitigating this vulnerability will require editing the registry. The `regedit32` command can be used for this purpose. Keep in mind that erroneous changes to the registry could leave the system in an unstable and unbootable state, so use due caution and have a working system backup and repair disk before editing the registry.

The privileges of null sessions can be limited by changing the following registry value:

Hive: `HKEY_LOCAL_MACHINE`

Key: `SYSTEM/CurrentControlSet/Control/LSA`

Value: `RestrictAnonymous`

Type: `REG_DWORD`

Setting this value to `1` will partially limit the amount of information which is available through a null session, but will still allow access to some sensitive information, including the user account list. On Windows 2000 and XP, this value can also be set to `2` for greater protection. However, a value of `2` could also disable some critical Windows networking functions, so this setting is recommended only for Internet servers, and should be thoroughly tested.

Windows XP and later also support a registry value called `RestrictAnonymousSAM`, which, if set to `1`, prevents enumeration of accounts using a null session.

In addition to the above changes, it is also advisable to block access to the NetBIOS ports at the firewall or gateway router. There is usually no reason why a user outside the local network would have a legitimate need for NetBIOS access. NetBIOS runs on ports 135, 137, 138, and 139 (TCP and UDP).

### Where can I read more about this?

For more information about using the `RestrictAnonymous` registry value to limit the privileges of null sessions, see Microsoft Knowledge Base articles [Q143474](#) and [Q246261](#).

### Technical Details

Service: `netbios-ssn`

Shares: `C;` `ADMIN$;` `C$`

## Obsolete Windows Release: Windows XP

### Severity: Potential Problem

### Impact

Security updates for the target's Windows release are no longer available, possibly leaving the target vulnerable to attacks.

### Resolution

Systems should be upgraded to a supported version of Microsoft Windows (Windows Vista or higher).

### Where can I read more about this?

The information found at [Microsoft Support LifeCycle](#) has been laid out in the "Timeline Of Windows" table at [Microsoft Windows \(Wikipedia\)](#).

### Technical Details

Service: registry  
Hosttype: Windows XP

## Microsoft Terminal Server allows weak encryption

**Severity:** Potential Problem

### Impact

An attacker who is able to monitor the network between the client and server could decrypt the desktop session.

### Resolution

From the Terminal Services Configuration application, change the *Encryption Level* setting in the connection's properties to *High*. This will require clients to use the maximum key strength.

### Where can I read more about this?

For more information on securing remote desktop sessions, see [Microsoft Article ID 816594](#).

### Technical Details

Service: 3389  
ENCRYPTION\_LEVEL\_CLIENT\_COMPATIBLE

## SMB digital signing is disabled

**Severity:** Potential Problem

### Impact

If the SMB signing is disabled, malicious attackers could sniff the network traffic and could perform a man in the middle attack to gain sensitive information.

### Resolution

Refer to Microsoft Technet Library in Local Policies, [Microsoft network server: Digitally sign communications \(if client agrees\)](#).

### Where can I read more about this?

For more information about SMB signing configuration, see, [SMB Protocol Package Exchange Scenario](#).

### Technical Details

Service: netbios  
NEGOTIATE\_SECURITY\_SIGNATURES\_ENABLED=0

### 1026/UDP

Severity: Service

#### Technical Details

### SMB

Severity: Service

#### Technical Details

\131\000\000\001\143

### WWW

Severity: Service

#### Technical Details

HTTP/1.1 400 Bad Request  
Content-Type: text/html  
Server: Microsoft-HTTPAPI/1.0  
Date: Mon, 14 Dec 2015 16:13:05 GMT  
Connection: close  
Content-Length: 39  
<h1>Bad Request

### blackjack (1025/UDP)

Severity: Service

#### Technical Details

### epmap (135/TCP)

Severity: Service

#### Technical Details

### isakmp (500/UDP)

Severity: Service

#### Technical Details

### microsoft-ds (445/TCP)

Severity: Service

#### Technical Details

### microsoft-ds (445/UDP)

Severity: Service

## Technical Details

### ms-wbt-server (3389/TCP)

Severity: Service

## Technical Details

### netbios-dgm (138/UDP)

Severity: Service

## Technical Details

### netbios-ns (137/UDP)

Severity: Service

## Technical Details

### ntp (123/UDP)

Severity: Service

## Technical Details

### ssdp (1900/UDP)

Severity: Service

## Technical Details

## 7.3 win-iqf3u12cja5.sainttest.local

**IP Address:** 10.8.0.150  
**Scan time:** Dec 14 11:23:26 2015

**Host type:** Windows Server 2008 R2  
**Netbios Name:** WIN-IQF3U12CJA5

### DNS server allows zone transfers

Severity: Area of Concern

CVE: CVE-1999-0532

#### Impact

Attackers could collect information about the domain.

#### Resolution

Configure the primary DNS server to allow zone transfers only from secondary DNS servers. In BIND, this can be done in an `allow-transfer` block in the `options` section of the `named.conf` file.

#### Where can I read more about this?

Information on DNS zone transfers can be found [here](#).

Information on securing DNS can be found [here](#).

## Technical Details

Service: dns

Received:

```
; <<>> DiG 9.8.1-P1 <<>> @win-iqf3u12cja5.sainttest.local SAINTTEST.local axfr
```

```
; (1 server found)
```

```
;; global options: +cmd
```

```
SAINTTEST.local.\x093600\x09IN\x09SOA\x09win-iqf3u12cja5.SAINTTEST.local.
```

```
hostmaster.SAINTTEST.local. 4887 900 600 86400 3600
```

```
SAINTTEST.local.\x09600\x09IN\x09A\x0910.8.0.150
```

```
SAINTTEST.local.\x093600\x09IN\x09NS\x09win-iqf3u12cja5.SAINTTEST.local.
```

```
_gc._tcp.Default-First-Site-Name._sites.SAINTTEST.local. 600 IN\x09SRV 0 100 3268
```

```
win-iqf3u12cja5.sainttest.local.
```

```
_kerberos._tcp.Default-First-Site-Name._sites.SAINTTEST.local. 600 IN SRV 0 100 88
```

```
win-iqf3u12cja5.sainttest.local.
```

```
_ldap._tcp.Default-First-Site-Name._sites.SAINTTEST.local. 600 IN SRV 0 100 389
```

```
win-iqf3u12cja5.sainttest.local.
```

```
_gc._tcp.SAINTTEST.local. 600\x09IN\x09SRV\x090 100 3268 win-iqf3u12cja5.sainttest.local.
```

```
_kerberos._tcp.SAINTTEST.local.\x09600 IN\x09SRV\x090 100 88 win-iqf3u12cja5.sainttest.local.
```

```
_kpasswd._tcp.SAINTTEST.local. 600 IN\x09SRV\x090 100 464 win-iqf3u12cja5.sainttest.local.
```

```
_ldap._tcp.SAINTTEST.local. 600\x09IN\x09SRV\x090 100 389 win-iqf3u12cja5.sainttest.local.
```

## NFS export list disclosure

**Severity:** Area of Concern

### Impact

A remote attacker could view the list of exported file systems, which may contain sensitive information about the target's file system and trusted hosts.

### Resolution

Disable the NFS service if it is not needed. If it is needed, block access to the mountd service at the firewall.

### Where can I read more about this?

See [Wikipedia](#) for more information about NFS.

## Technical Details

Service: 1048:TCP

Sent:

```
/sbin/showmount -e win-iqf3u12cja5.sainttest.local
```

Received:

```
Export list for win-iqf3u12cja5.sainttest.local:
```

## Possible buffer overflow in Active Directory

**Severity:** Potential Problem

### Impact

A remote attacker could crash the Active Directory service and force a reboot of the server. It may also be

possible to execute commands on the server.

## Resolution

Install the patches referenced in [Microsoft Security Bulletin 15-096](#).

## Where can I read more about this?

For more information, see Microsoft Security Bulletins [07-039](#), [08-003](#), [08-035](#), [08-060](#), [09-018](#), [09-066](#), and [15-096](#).

## Technical Details

Service: ldap

## AV Information: Anti-virus software is not installed or its presence could not be checked

**Severity:** Potential Problem

### Impact

The system may be susceptible to viruses, worms, and other types of malware.

### Resolution

Install and enable anti-virus software. Turn on automatic updates and periodic scans. Enable logging.

If an anti-virus server or manager is present, make sure that all clients can communicate with it so that the client is as up to date as possible and can send crucial information to the master installation.

If more information is needed about the anti-virus software running on the network and a server or manager is present, it is a good place to look for information about the anti-virus clients.

If more than one instance of anti-virus software is installed on a system, remove all but one. Multiple anti-virus programs may interfere with each other and cause the system to run poorly.

### Where can I read more about this?

For additional information about viruses and anti-virus products, see [Virus Bulletin](#).

## Technical Details

Service: netbios  
no registry access

## DNS server allows recursive queries

**Severity:** Potential Problem

### Impact

Allowing recursive queries may make the DNS server more susceptible to denial-of-service and cache poisoning attacks.

### Resolution

Disable recursive queries on the DNS server.

For Windows DNS servers, this can be done by checking *Disable Recursion* from Start -> Control Panel -> Administrative Tools -> DNS -> Properties -> Advanced -> Server Options.

For BIND DNS servers, add the following line to the *options* section of the `named.conf` file:

```
recursion no;
```

### Where can I read more about this?

For more information about the risks of recursive queries, see the [Go Daddy Help Center](#).

### Technical Details

Service: domain

Recursion Available flag = 1

## ICMP timestamp requests enabled

**Severity:** Potential Problem

**CVE:** CVE-1999-0524

### Impact

A remote attacker could obtain sensitive information about the network.

### Resolution

Configure the system or firewall not to allow ICMP timestamp requests (message type 13) or ICMP netmask requests (message type 17). Instructions for doing this on specific platforms are as follows:

#### Windows:

Block these message types using the Windows firewall as described in [Microsoft TechNet](#).

#### Linux:

Use ipchains or iptables to filter ICMP netmask requests using the command:

```
ipchains -A input -p icmp --icmp-type address-mask-request -j DROP
```

Use ipchains or iptables to filter ICMP timestamp requests using the commands:

```
ipchains -A input -p icmp --icmp-type timestamp-request -j DROP
ipchains -A output -p icmp --icmp-type timestamp-reply -j DROP
```

To ensure that this change persists after the system reboots, put the above command into the system's boot-up script (typically `/etc/rc.local`).

#### Cisco:

Block ICMP message types 13 and 17 as follows:

```
deny icmp any any 13
deny icmp any any 17
```

/pre>

### Where can I read more about this?

For more information about ICMP, see [RFC792](#).

### Technical Details

Service: icmp  
timestamp=185a8503

## Is your LDAP secure?

**Severity:** Potential Problem

### Impact

If an application uses a vulnerable implementation of LDAP, an attacker could cause a denial of service or execute arbitrary commands.

### Resolution

See [CERT Advisory 2001-18](#) for information on obtaining a patch for your application. OpenLDAP 2.x users may also need to fix a separate set of vulnerabilities which were reported in [SuSE Security Announcement 2002:047](#). Consult your vendor for a fix.

If a patch is not available, then ports 389 and 636, TCP and UDP, should be blocked at the network perimeter until a patch can be applied.

### Where can I read more about this?

For more information, see [CERT Advisory 2001-18](#) and [SuSE Security Announcement 2002:047](#).

### Technical Details

Service: ldap

## Windows null session domain SID disclosure

**Severity:** Potential Problem

**CVE:** CVE-2000-1200

### Impact

A remote attacker could gain a list of shared resources or user names on the system.

### Resolution

Mitigating this vulnerability will require editing the registry. The `regedit32` command can be used for this purpose. Keep in mind that erroneous changes to the registry could leave the system in an unstable and unbootable state, so use due caution and have a working system backup and repair disk before editing the registry.

The privileges of null sessions can be limited by changing the following registry value:

Hive: `HKEY_LOCAL_MACHINE`



Key: `SYSTEM/CurrentControlSet/Control/LSA`

Value: `RestrictAnonymous`

Type: `REG_DWORD`

Setting this value to `1` will partially limit the amount of information which is available through a null session, but will still allow access to some sensitive information, including the user account list. On Windows 2000 and XP, this value can also be set to `2` for greater protection. However, a value of `2` could also disable some critical Windows networking functions, so this setting is recommended only for Internet servers, and should be thoroughly tested.

Windows XP and later also support a registry value called `RestrictAnonymousSAM`, which, if set to `1`, prevents enumeration of accounts using a null session.

In addition to the above changes, it is also advisable to block access to the NetBIOS ports at the firewall or gateway router. There is usually no reason why a user outside the local network would have a legitimate need for NetBIOS access. NetBIOS runs on ports 135, 137, 138, and 139 (TCP and UDP).

### Where can I read more about this?

For more information about using the `RestrictAnonymous` registry value to limit the privileges of null sessions, see Microsoft Knowledge Base articles [Q143474](#) and [Q246261](#).

### Technical Details

Service: `netbios-ssn`

Domain SID = `S-1-5-21-1092970315-2611599247-3581362680`

## Windows null session host SID disclosure

**Severity:** Potential Problem

### Impact

A remote attacker could gain a list of shared resources or user names on the system.

### Resolution

Mitigating this vulnerability will require editing the registry. The `regedt32` command can be used for this purpose. Keep in mind that erroneous changes to the registry could leave the system in an unstable and unbootable state, so use due caution and have a working system backup and repair disk before editing the registry.

The privileges of null sessions can be limited by changing the following registry value:

Hive: `HKEY_LOCAL_MACHINE`

Key: `SYSTEM/CurrentControlSet/Control/LSA`

Value: `RestrictAnonymous`

Type: `REG_DWORD`

Setting this value to `1` will partially limit the amount of information which is available through a null session, but will still allow access to some sensitive information, including the user account list. On Windows 2000 and XP, this value can also be set to `2` for greater protection. However, a value of `2` could also disable some critical Windows networking functions, so this setting is recommended only for Internet servers, and should be thoroughly tested.

Windows XP and later also support a registry value called **RestrictAnonymousSAM**, which, if set to **1**, prevents enumeration of accounts using a null session.

In addition to the above changes, it is also advisable to block access to the NetBIOS ports at the firewall or gateway router. There is usually no reason why a user outside the local network would have a legitimate need for NetBIOS access. NetBIOS runs on ports 135, 137, 138, and 139 (TCP and UDP).

### Where can I read more about this?

For more information about using the **RestrictAnonymous** registry value to limit the privileges of null sessions, see Microsoft Knowledge Base articles [Q143474](#) and [Q246261](#).

### Technical Details

Service: netbios-ssn

Host SID = S-1-5-21-1092970315-2611599247-3581362680

## Microsoft Terminal Server allows weak encryption

**Severity:** Potential Problem

### Impact

An attacker who is able to monitor the network between the client and server could decrypt the desktop session.

### Resolution

From the Terminal Services Configuration application, change the *Encryption Level* setting in the connection's properties to *High*. This will require clients to use the maximum key strength.

### Where can I read more about this?

For more information on securing remote desktop sessions, see [Microsoft Article ID 816594](#).

### Technical Details

Service: 3389

ENCRYPTION\_LEVEL\_CLIENT\_COMPATIBLE

## rpc.statd is enabled and may be vulnerable

**Severity:** Potential Problem

**CVE:** CVE-1999-0018 CVE-1999-0019  
CVE-1999-0210 CVE-1999-0493  
CVE-2000-0666 CVE-2000-0800

### Impact

Several vulnerabilities in **statd** permit attackers to gain root privileges. They can be exploited by local users. They can also be exploited remotely without the intruder requiring a valid local account if **statd** is accessible via the network.

### Resolution

One resolution to this vulnerability is to install vendor patches as they become available. For the format string bug, SUSE users should obtain the `nfs-utils` and package, version 0.1.9.1 or higher, from their vendor. For the String parsing error bug, Linux users should obtain the `nfs-utils` or `knfsdi` or `linuxnfs` packages, more detail information, please refer to [SUSE Security Announcement](#) web site. For the `SM_MON` buffer overflow, UnixWare users should obtain the [patch](#).

Also, if `NFS` is not being used, there is no need to run `statd` and it can be disabled. The `statd` (or `rpc.statd`) program is often started in the system initialization scripts (such as `/etc/rc*` or `/etc/rc*.d/*`). If you do not require `statd` it should be commented out from the initialization scripts. In addition, any currently running `statd` processes should be identified using `ps(1)` and then terminated using `kill(1)`.

### Where can I read more about this?

More information about the `statd/automountd` vulnerability is available in [CERT Advisory 1999-05](#). You may read more about the `statd` buffer overflow in [CERT Advisory 1997-26](#). The String parsing error vulnerability detail information can be found in [CVE Details](#). The format string vulnerability was discussed in vendor bulletins from [Red Hat](#), [Debian](#), [Mandrake](#), [Trustix](#), and [Conectiva](#), as well as [CERT Advisory 2000.17](#). The `SM_MON` buffer overflow was announced in [Caldera Security Advisory 2001-SCO.6](#). The file creation and removal vulnerability was discussed in [CERT Advisory 1996-09](#).

### Technical Details

Service: 1039:TCP

## The sunrpc portmapper service is running

Severity: Potential Problem

CVE: CVE-1999-0632

### Impact

The sunrpc portmapper service is an unsecured protocol that tells clients which port corresponds to each RPC service. Access to port 111 allows the calling client to query and identify the ports where the needed server is running.

### Resolution

Disable all unnecessary RPC services, which are typically enabled in `/etc/inetd.conf` and in the system boot scripts, `/etc/rc*`, and to block high numbered ports at the network perimeter except for those which are needed.

### Where can I read more about this?

More information can be obtained in, [NVD for CVE-1999-0632](#).

### Technical Details

Service: sunrpc  
port 111/tcp is open

## sunrpc services may be vulnerable

Severity: Potential Problem

CVE: CVE-2002-0391 CVE-2003-0028

### Impact

If an affected service is running, a remote attacker could execute arbitrary commands with *root* privileges.

## Resolution

See CERT Advisories [2002-25](#) and [2003-10](#) for patch or upgrade information from your vendor. Note that it will be necessary to recompile statically linked applications after installing the patch or upgrade.

It would also be advisable to disable all unnecessary RPC services, which are typically enabled in `/etc/inetd.conf` and in the system boot scripts, `/etc/rc*`, and to block high numbered ports at the network perimeter except for those which are needed. Of particular importance are `rpc.cmsd`, `dmispd`, and `kadmind`, which are known to be exploitable and should be disabled or blocked.

## Where can I read more about this?

These vulnerabilities were reported in CERT Advisories [2002-25](#) and [2003-10](#).

## Technical Details

Service: sunrpc

## TCP timestamp requests enabled

**Severity:** Potential Problem

### Impact

A remote attacker could possibly determine the amount of time since the computer was last booted.

### Resolution

TCP timestamps are generally only useful for testing, and support for them should be disabled if not needed.

To disable TCP timestamps on Linux, add the following line to the `/etc/sysctl.conf` file:

```
net.ipv4.tcp_timestamps = 0
```

To disable TCP timestamps on Windows, set the following registry value:

```
Key: HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Tcpip\Parameters  
Value: Tcp1323Opts  
Data: 0 or 1
```

To disable TCP timestamps on Cisco, use the following command:

```
no ip tcp timestamp
```

## Where can I read more about this?

More information on TCP timestamps and round-trip time measurement is available in [RFC1323](#) and [Microsoft Article 224829](#).

## Technical Details

Service: iad1  
timestamp=42697889; uptime guess=4d 22h 36m 18s

## Windows DNS Server RPC Management Interface Buffer Overflow

**Severity:** Potential Problem

**CVE:** CVE-2007-1748

### Impact

The Windows DNS Server has a vulnerability that allows for remote code execution.

### Resolution

Apply the patch referenced in [Microsoft Security Bulletin 15-127](#).

Windows Server 2008 and Windows Server 2008 R2 users should apply the patch referenced in [Microsoft Security Bulletin 09-008](#).

For the management interface buffer overflow, remote management over RPC can be disabled by setting the value of `RpcProtocol` in `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\DNS\Parameters` to 4. Setting this value to 0 will disable all DNS RPC functionality and will protect against both local and remote attempts to exploit the vulnerability.

### Where can I read more about this?

For more information on specific vulnerabilities, see Microsoft Security Bulletins [07-029](#), [07-062](#), [09-008](#), [11-058](#), [12-017](#), and [15-127](#). The DNS server RPC management interface buffer overflow was reported in [US-CERT Vulnerability Note VU#555920](#) and [Secunia Advisory SA24871](#).

### Technical Details

Service: 135:TCP  
Windows DNS Server port open

## 1026/TCP

**Severity:** Service

### Technical Details

## 1027/TCP

**Severity:** Service

### Technical Details

## 1029/TCP

**Severity:** Service

### Technical Details

## 1033/TCP

**Severity:** Service



HTTP/1.1 503 Service Unavailable  
Content-Type: text/html; charset=us-ascii  
Server: Microsoft-HTTPAPI/2.0  
Date: Mon, 14 Dec 2015 16:13:06 GMT  
Connection: close  
Content-Length:

### WWW (Secure)

Severity: Service

#### Technical Details

### WWW (non-standard port 5985)

Severity: Service

#### Technical Details

HTTP/1.1 404 Not Found  
Content-Type: text/html; charset=us-ascii  
Server: Microsoft-HTTPAPI/2.0  
Date: Mon, 14 Dec 2015 16:13:11 GMT  
Connection: close  
Content-Length:

### WWW (non-standard port 8059)

Severity: Service

#### Technical Details

HTTP/1.1 503 Service Unavailable  
Content-Type: text/html; charset=us-ascii  
Server: Microsoft-HTTPAPI/2.0  
Date: Mon, 14 Dec 2015 16:13:13 GMT  
Connection: close  
Content-Length:

### WWW (non-standard port 8082)

Severity: Service

#### Technical Details

HTTP/1.1 503 Service Unavailable  
Content-Type: text/html; charset=us-ascii  
Server: Microsoft-HTTPAPI/2.0  
Date: Mon, 14 Dec 2015 16:13:13 GMT  
Connection: close  
Content-Length:

### blackjack (1025/TCP)

Severity: Service

**Technical Details**

**cma (1050/TCP)**

Severity: Service

**Technical Details**

**domain (53/UDP)**

Severity: Service

**Technical Details**

**epmap (135/TCP)**

Severity: Service

**Technical Details**

**http-rpc-epmap (593/TCP)**

Severity: Service

**Technical Details**

ncacn\_http/1.0

**iad1 (1030/TCP)**

Severity: Service

**Technical Details**

ncacn\_http/1.0

**iad2 (1031/TCP)**

Severity: Service

**Technical Details**

**iscsi-target (3260/TCP)**

Severity: Service

**Technical Details**

**kerberos (88/TCP)**

Severity: Service

**Technical Details**

**kpasswd (464/TCP)**

Severity: Service

**Technical Details**



**ldap (389/TCP)**

Severity: Service

Technical Details

**m4-network-as (4345/TCP)**

Severity: Service

Technical Details

**microsoft-ds (445/TCP)**

Severity: Service

Technical Details

**ms-wbt-server (3389/TCP)**

Severity: Service

Technical Details

**msft-gc (3268/TCP)**

Severity: Service

Technical Details

**msft-gc-ssl (3269/TCP)**

Severity: Service

Technical Details

**neod1 (1047/TCP)**

Severity: Service

Technical Details

**neod2 (1048/TCP)**

Severity: Service

Technical Details

**netbios-ns (137/UDP)**

Severity: Service

Technical Details

**obrpdp (1092/TCP)**

Severity: Service

**Technical Details**

**proofd (1093/TCP)**

Severity: Service

**Technical Details**

**shilp (2049/TCP)**

Severity: Service

**Technical Details**

**ssl-ldap (636/TCP)**

Severity: Service

**Technical Details**

**sunrpc (111/TCP)**

Severity: Service

**Technical Details**

**unicall (4343/TCP)**

Severity: Service

**Technical Details**

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Scan Session: FISMA vuln scan; Scan Policy: FISMA; Scan Data Set: 14 December 2015 11:23

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