Vulnerability Report

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Vulnerability Overview

CVE ID	Severity	CVSS	Service	Summary
CVE-2008-3844	Critical	9.3	OpenSSH	Critical unauthorized modification vulnerability in OpenSSH.
CVE-2015-5600	High	8.5	OpenSSH	High risk of brute-force attacks or DoS in OpenSSH.
CVE-2007-4723	High	7.5	Apache httpd	High risk of authentication bypass in Apache HTTP Server.
CVE-2011-2688	High	7.5	Apache httpd	High risk of SQL injection in Apache HTTP Server.
Predicted CPE 1	High	8.0827	Nping echo	Potential unauthorized connections to arbitrary ports.
Predicted CPE 2	High	7.6830	Nping echo	File descriptor leak in FTP.
Predicted CPE 3	High	7.4929	Nping echo	Potential DoS via multiple PASV commands in FTP.
Predicted CPE 4	High	7.3868	Nping echo	Buffer overflow risk in nftp FTP client.
Predicted CPE 5	High	7.2829	Nping echo	Password recorded in plaintext in gFTP FTP client.
CVE-2007-2768	Medium	4.3	OpenSSH	Potential exposure of user accounts in OpenSSH.
CVE-2015-5352	Medium	4.3	OpenSSH	Potential bypass of access restrictions in OpenSSH.

CVE-2009-2299	Medium	5.0	Apache httpd	Potential DoS via large Content-Length value in Apache HTTP Server.
CVE-2011-1176	Medium	4.3	Apache httpd	Potential privilege escalation in Apache HTTP Server.
CVE-2015-6563	Low	1.9	OpenSSH	Low severity impersonation attacks in OpenSSH.
CVE-2009-0796	Low	2.6	Apache httpd	Low severity XSS vulnerability in Apache HTTP Server.

Security Recommendations for Open Ports

To mitigate the vulnerabilities associated with the scanned open ports on host 45.33.32.156, follow these recommendations:

1. Port 22 (SSH):

- Ensure that SSH is configured to use strong authentication methods, such as public-key authentication instead of password-based authentication.

- Disable root login over SSH by setting the "PermitRootLogin" directive to "no" in the SSH server configuration file.

- Implement fail2ban or similar software to prevent brute-force attacks on the SSH service.

- Regularly update and patch the SSH server to protect against known vulnerabilities.

2. Port 80 (HTTP):

- Implement a web application firewall (WAF) to protect against common web-based attacks such as SQL injection and cross-site scripting (XSS).

- Ensure that the web server software is regularly updated and patched.

- Use HTTPS with strong encryption to secure communication between clients and servers.

- Implement rate limiting and request filtering to prevent denial-of-service (DoS) attacks.

3. Port 9929 (NPING-Echo):

- If the service running on this port is not necessary, consider closing the port.

- If the service is necessary, ensure that it is secured and regularly updated.

- Configure access control lists (ACLs) to restrict access to the service.

4. Port 31337 (TCP Wrapped):

- This port is often associated with a vulnerability in the TCP Wrappers daemon. If the service running on this port is not necessary, consider closing the port.

- If the service is necessary, ensure that it is secured and regularly updated.

- Configure access control lists (ACLs) to restrict access to the service.

- Monitor logs for any unusual activity related to the service running on this port.

Detailed Vulnerability Breakdown

IP: 45.33.32.156 | Service: OpenSSH | Version: 6.6.1p1 Ubuntu 2ubuntu2.13

CPE: cpe:2.3:a:openbsd:openssh:6.6.1p1:*:*:*:*:*:*:*

CVE ID: CVE-2007-2768

Severity: MEDIUM | CVSS: 4.3

Description: OpenSSH, when using OPIE (One-Time Passwords in Everything) for PAM, allows remote attackers to determine the existence of certain user accounts, which displays a different response if the user account exists and is configured to use one-time passwords (OTP), a similar issue to CVE-2007-2243.

More Info: http://archives.neohapsis.com/archives/fulldisclosure/2007-04/0635.html

CVE ID: CVE-2008-3844

Severity: CRITICAL | CVSS: 9.3

Description: Certain Red Hat Enterprise Linux (RHEL) 4 and 5 packages for OpenSSH, as signed in August 2008 using a legitimate Red Hat GPG key, contain an externally introduced modification (Trojan Horse) that allows the package authors to have an unknown impact. NOTE: since the malicious packages were not distributed from any official Red Hat sources, the scope of this issue is restricted to users who may have obtained these packages through unofficial distribution points. As of 20080827, no unofficial distributions of this software are known.

More Info: http://secunia.com/advisories/31575

CVE ID: CVE-2015-5352

Severity: MEDIUM | CVSS: 4.3

Description: The x11_open_helper function in channels.c in ssh in OpenSSH before 6.9, when ForwardX11Trusted mode is not used, lacks a check of the refusal deadline for X connections, which makes it easier for remote attackers to bypass intended access restrictions via a connection outside of the permitted time window.

More Info: http://lists.opensuse.org/opensuse-security-announce/2015-09/msg00017.html

CVE ID: CVE-2015-5600

Severity: HIGH | CVSS: 8.5

Description: The kbdint_next_device function in auth2-chall.c in sshd in OpenSSH through 6.9 does not properly restrict the processing of keyboard-interactive devices within a single connection, which makes it easier for remote attackers to conduct brute-force attacks or cause a denial of service (CPU consumption) via a long and duplicative list in the ssh -oKbdInteractiveDevices option, as demonstrated by a modified client that provides a different password for each pam element on this list.

More Info: http://cvsweb.openbsd.org/cgi-bin/cvsweb/src/usr.bin/ssh/auth2-chall.c

CVE ID: CVE-2015-6563

Severity: LOW | CVSS: 1.9

Description: The monitor component in sshd in OpenSSH before 7.0 on non-OpenBSD platforms accepts extraneous username data in MONITOR_REQ_PAM_INIT_CTX requests, which allows local users to conduct impersonation attacks by leveraging any SSH login access in conjunction with control of the sshd uid to send a crafted MONITOR_REQ_PWNAM request, related to monitor.c and monitor_wrap.c.

More Info: http://lists.apple.com/archives/security-announce/2015/Oct/msg00005.html

IP: 45.33.32.156 | Service: Apache httpd | Version: 2.4.7

CPE: cpe:2.3:a:apache:http_server:2.4.7:*:*:*:*:*:*:*

CVE ID: CVE-2007-4723

Severity: HIGH | CVSS: 7.5

Description: Directory traversal vulnerability in Ragnarok Online Control Panel 4.3.4a, when the Apache HTTP Server is used, allows remote attackers to bypass authentication via directory traversal sequences in a URI that ends with the name of a publicly available page, as demonstrated by a "/...../" sequence and an account_manage.php/login.php final component for reaching the protected account_manage.php page.

More Info: http://osvdb.org/45879

CVE ID: CVE-2009-0796

Severity: LOW | CVSS: 2.6

Description: Cross-site scripting (XSS) vulnerability in Status.pm in Apache::Status and Apache2::Status in mod_perl1 and mod_perl2 for the Apache HTTP Server, when /perl-status is accessible, allows remote attackers to inject arbitrary web script or HTML via the URI.

More Info: http://lists.apple.com/archives/security-announce/2010//Nov/msg00000.html

CVE ID: CVE-2009-2299

Severity: MEDIUM | CVSS: 5.0

Description: The Artofdefence Hyperguard Web Application Firewall (WAF) module before 2.5.5-11635, 3.0 before 3.0.3-11636, and 3.1 before 3.1.1-11637, a module for the Apache HTTP Server, allows remote attackers to cause a denial of service (memory consumption) via an HTTP request with a large Content-Length value but no POST data.

More Info: http://secunia.com/advisories/35645

CVE ID: CVE-2011-1176

Severity: MEDIUM | CVSS: 4.3

Description: The configuration merger in itk.c in the Steinar H. Gunderson mpm-itk Multi-Processing Module 2.2.11-01 and 2.2.11-02 for the Apache HTTP Server does not properly handle certain configuration sections that specify NiceValue but not AssignUserID, which might allow remote attackers to gain privileges by leveraging the root uid and root gid of an mpm-itk process.

More Info: http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=618857

CVE ID: CVE-2011-2688

Severity: HIGH | CVSS: 7.5

Description: SQL injection vulnerability in mysql/mysql-auth.pl in the mod_authnz_external module 3.2.5 and earlier for the Apache HTTP Server allows remote attackers to execute arbitrary SQL commands via the user field.

More Info: http://anders.fix.no/software/#unix

IP: 45.33.32.156 | Service: Nping echo | Version: Unknown

CPE: New

CVE ID: Predicted CPE 1

Severity: HIGH | CVSS: 8.0827

Description: FTP servers can allow an attacker to connect to arbitrary ports on machines other than the FTP client, aka FTP bounce.

More Info: Unknown

CVE ID: Predicted CPE 2

Severity: HIGH | CVSS: 7.6830

Description: getcwd() file descriptor leak in FTP.

More Info: Unknown

CVE ID: Predicted CPE 3

Severity: HIGH | CVSS: 7.4929

Description: Remote attackers can cause a denial of service in FTP by issuing multiple PASV commands, causing the server to run out of available ports.

More Info: Unknown

CVE ID: Predicted CPE 4

Severity: HIGH | CVSS: 7.3868

Description: Buffer overflow in nftp FTP client version 1.40 allows remote malicious FTP servers to cause a denial of service, and possibly execute arbitrary commands, via a long response string.

More Info: Unknown

CVE ID: Predicted CPE 5

Severity: HIGH | CVSS: 7.2829

Description: gFTP FTP client 1.13, and other versions before 2.0.0, records a password in plaintext in (1) the

log window, or (2) in a log file.

More Info: Unknown

Executive Summary & Recommendations

The vulnerability scan identified several critical and high severity vulnerabilities in OpenSSH and Apache HTTP Server services, as well as high severity vulnerabilities in the predicted CPE entries related to Nping echo service. The most critical vulnerability (CVE-2008-3844) was found in OpenSSH, which could potentially allow unauthorized modification of the service. Other high severity vulnerabilities could allow remote attackers to conduct brute-force attacks, bypass authentication, gain privileges, or execute arbitrary SQL commands. Medium and low severity vulnerabilities could expose user accounts, allow impersonation attacks, and enable cross-site scripting (XSS) attacks. The vulnerabilities in the predicted CPE entries could allow attackers to connect to arbitrary ports, cause a denial of service, or execute arbitrary commands. Immediate remediation of these vulnerabilities is recommended to prevent potential breaches.