

Inprotect Training

inprotect.sourceforge.net

Overview: Features of Inprotect

Manual / Automated Vulnerability / Compliance Scanning

- Incident Tracker (track vulnerability from initial discovery through remediation).
- Executive (Tiered) Reporting
- Tracking Contacts per Org/Site/Subnet/Host
- Tracking Waivers / Exceptions

Course contents

- Overview: Features Of Inprotect
- Lesson 1: Scanning/Self Service
- Lesson 2: Incident Tracker/Host Check-up
- Lesson 3: Vulnerability Reporting

Lesson 1

Nessus Scanning

New Scan Job

Create Scan Job:

Target	Scan	Credentials	Compliance	Reporting
Name your Job:		Test Job		
Notification:		user@host.com (Multiple Recipients supported by comma delimiter)		
Schedule Method:		Year: 2008 Month: 7 Day: 15		
<input type="radio"/> Immediately		Time: Hour: 22 Minutes: 0		
<input checked="" type="radio"/> Run Once				
<input type="radio"/> Daily				
<input type="radio"/> Day of the Week				
<input type="radio"/> Day of the Month				
Target Hosts:	IP List	192.168.0.100		
<input type="button" value="Submit"/>				

Scanning/Self Service is available in two forms:

1. Nessus Security Scan by Job Scheduler (above)
2. Network Health [subnet auditing]

New Scan Job => TARGET TAB

Target Tab (requires all fields)

Name your Job: A name to be displayed on the report, in future will be able to search reports based on job name.

Notification: email addresses of one or more people to receive notification of scan start/completion with secure link to report.

Schedule Method: Means to configure When and frequency of a scan.

Target Hosts: list of host (IP/names), IP range, CIDR, or select from one of the defined subnets

New Scan Job => SCAN TAB

Create Scan Job:

Target	Scan	Credentials	Compliance	Reporting
Select Server:		First Available Server ▼		
Profile:		SAFE-Non Destructive ▼		
Timeout:		172800	Max scan run time in seconds	

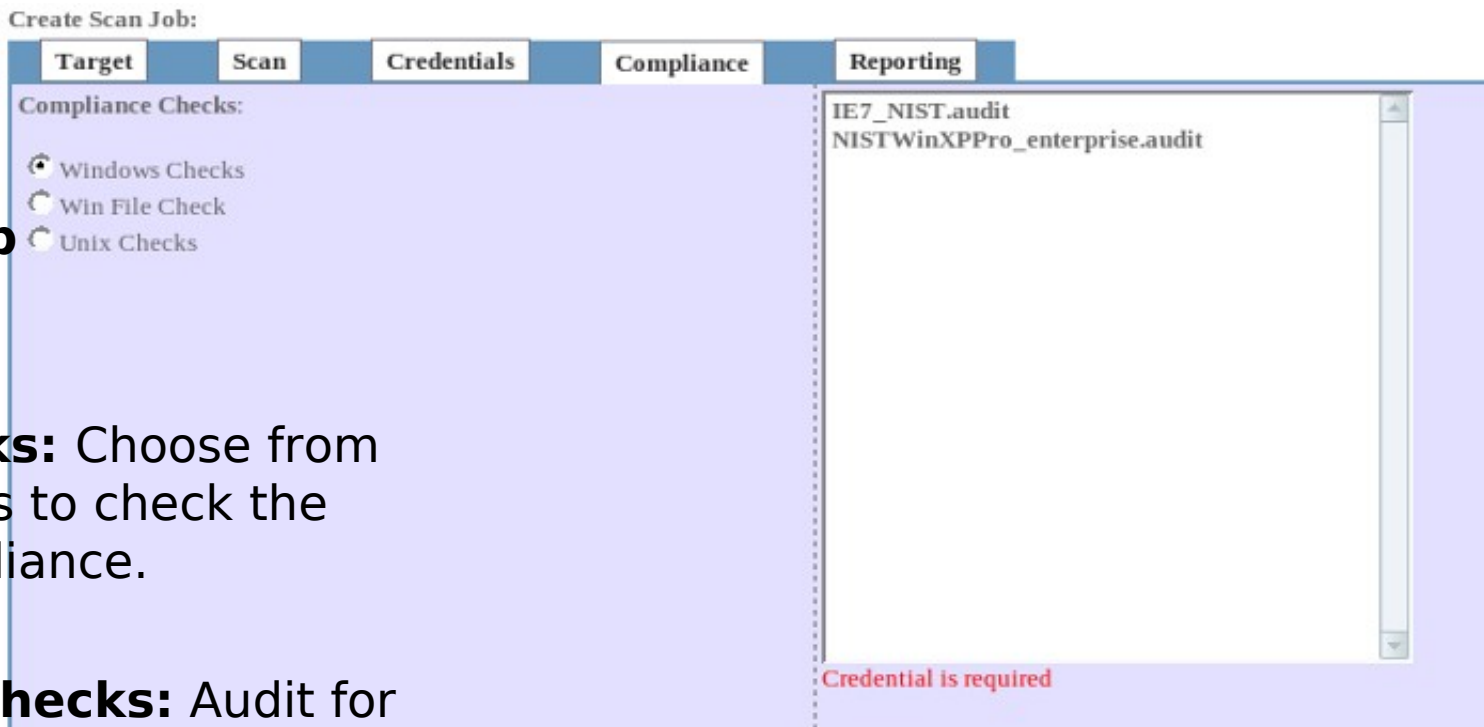
Scan Tab provides 3 options the defaults are sufficient for most any scan.

Select Server: Option to specify which Nessus server will run the audit. Useful where firewalls come into play, or selecting a server where Direct Feeds are required.

Profile: Allows to select from a list of available audit configurations to run. The default is safe, my wish to scan for Oracle, Brightstor, full test, pen test, etc. Currently access is restricted to advanced tests that utilize password cracking tests.

Timeout: how long a single scan job can run before it is killed.

New Scan Job => Compliance Tab



Compliance Tab (restricted)

Windows Checks: Choose from a list of audit files to check the system for compliance.

Windows File Checks: Audit for copyrighted material, SSN, credit card numbers other data stored in the clear on C drive/etc.

Unix Checks: Audit Unix/Linux system security against requirements / etc.

New Scan Job => Submit

Job Submitted: A job will successfully submit when all the required fields per the Target Tab was completed.

The scheduler uses a role based access control to determine you are authorized to run the scan; otherwise the job will be submitted as a request and requires approval.

Criteria for self service:

You must have scanner/ self service role and IP's submitted are in a zone you are authorized to scan, a subnet (that your ORG owns, etc) or will be a submitted request.

Additionally: restrictions on profile selection, and access to compliance scanning tab

Job Details:

JOB NAME	Test Job
NOTIFY	user@host.com
TIMEOUT	172800
PROFILE	SAFE - Non Destructive
SCHEDULE INFO	
TYPE	Immediately
FIRST OCCURANCE	20080622105405
REOCCURING	No reoccurring Jobs Necessary
TARGET SELECTION	
	192.168.0.224

Successfully Submitted Job

Lesson 2

Incident Tracker

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Network Hosts

HOST HEALTH

Associated Sites: R	
A →	Filter

<< First | [0 - 50 of 174] | Next > | Last >>

	HostIP	Hostname	LastScanDate	OS	vSerious	vHigh	vMed	vLow	v
B C	192.168.0.21	winxphostA	2008-06-03 02:44:10	Microsoft Windows XP	2	59	9	3	3
	192.168.0.25	winxphostC	2008-06-03 09:10:54	Microsoft Windows XP Professional ()	2	52	9	3	4
	192.168.0.110	winxphostZ	2008-06-23 10:46:14	Microsoft Windows XP Professional ()	0	47	6	3	3
	192.168.0.30	winxphostX	2008-06-03 09:10:54	Microsoft Windows XP Professional ()	0	46	6	3	3

A. Site List

B. Full PDF Report (most recent scan)

C. Open Incidents

D. Critical Only (filtered view - per most recent scan)

E. Critical/High Only (filtered view - per most recent scan)

F. Host Navigation Links

Incident Tracker

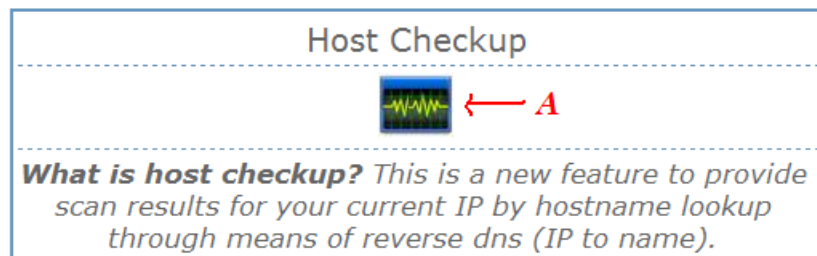
Open Incidents on host [*HOSTNAMEA* (192.168.0.30)]

TITLE	Priority	Created	Life T
<p>Synopsis : Arbitrary code can be executed on the remote host. Description : The remote version of Windows is affected by a vulnerability in Microsoft Message Queuing Service (MSMQ). An attacker may exploit this flaw to execute arbitrary code on the remote host with the SYSTEM privileges. Solution : Microsoft has released a set of patches for Windows 2000 and XP : http://www.microsoft.com/technet/security/bulletin/ms07-065.msp CVSS Base Score : 10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C) Plugin output : - C:WINNTsystem32Mqmqm.dll has not been patched Remote version : 5.1.0.1108 Should be : 5.1.0.1109 CVE : CVE-2007-3039 BID : 26797 Other references : OSVDB:39123</p>	1	2008-06-02 09:47:15	21 day
<p>Synopsis : It is possible to execute code on the remote host. Description : The remote version of Windows contains a version of the TCP/IP protocol which does not properly parse IGMPv3, MLDv2 and ICMP structure. An attacker may exploit these flaws to execute code on the remote host. Solution : Microsoft has released a set of patches for Windows 2000, XP, 2003 and Vista : http://www.microsoft.com/technet/security/bulletin/ms08-001.msp CVSS Base Score : 10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C) Plugin output : - C:WINNTsystem32driversTcpi.sys has not been patched Remote version : 5.1.2600.2892 Should be : 5.1.2600.3244 CVE : CVE-2007-0066, CVE-2007-0069 BID : 27100, 27139 Other references : OSVDB:40069, OSVDB:40070</p>	1	2008-06-02 09:47:15	21 day
<p>Synopsis : Arbitrary code can be executed on the remote host through the web client. Description : The remote host is missing the IE cumulative security update 92808. The remote version of IE is vulnerable to several flaws which may allow an attacker to execute arbitrary code on the remote host. Solution : Microsoft has released a set of patches for Windows 2000, XP and 2003 : http://www.microsoft.com/technet/security/Bulletin/MS07-016.msp CVSS Base Score : 10.0 (CVSS2#AV:N/AC:L/Au:N/C:C/I:C/A:C) Plugin output : - C:WINNTsystem32Mshhtml.dll has not been patched Remote version : 7.0.5730.13 Should be : 7.0.6000.16414 CVE : CVE-2006-4697, CVE-2007-0219, CVE-2007-0217 BID : 22486, 22489, 22504 Other references : OSVDB:31891, OSVDB:31892, OSVDB:31893, OSVDB:31894, OSVDB:31895</p>	1	2008-06-19 10:22:01	4 day
<p>Synopsis : The remote Windows host has an application that is affected by a privilege escalation vulnerability. Description : According to its version number, the Sun Java Runtime Environment (JRE) installed on the remote host reportedly may allow an untrusted application to elevate its privileges by first granting itself permission to overwrite any file that is writable by the user running the the application. See also : http://archives.neohapsis.com/archives/bugtraq/2007-07/0013.html http://sunsolve.sun.com/search/document.do?assetkey=1-26-102957-1 Solution : Update to Sun Java 2 JDK and JRE 5.0 Update 12 / SDK and JRE 1.4.2_14 / SDK or later and remove if necessary any affected versions. CVSS Base Score : 9.3 (CVSS2#AV:N/AC:M/Au:N/C:C/I:C/A:C) CVE : CVE-2007-3504 BID : 24695</p>	2	2008-06-02 09:47:15	21 day

Open Incident view – provides a list of open issues per a single host per all time scan data. This view provides “Life Timer” data on each vulnerability based on the date it was first discovered.

Host Check-up

Host Check-up is a paged designed to pull up the open incidents per any host with a fully qualified domain name (registered in DNS).



A. Is Link on the https://inprotect_homepage/ page that will show details per latest scan of host you viewing page from. (Allows you to access Vuln data for machine you are at without requiring a portal login - Considered Trusted)

Inprotect Nessus - HOST CHECKUP

YOUR IP IS 192.168.0.30
YOUR HOSTNAME IS fqdn.host.com
LAST SCANNED ON 2008-06-18 22:51:59

PASSED

Results to the left indicates system has no critical/high vulnerabilities. Alternatively you will get “Open Incidents” per previous slide, or “no data for host on file”

NO CRITICAL/HIGH VULNERABILITIES FOUND

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Lesson 3

Reporting

Nessus Reports

Nessus scan results:

[Show all results](#)

	Date/Time	Job Name	System/Subnet Name	Profile	Serious	High	Medium	Low	Info	
   	20080624203055	12 - Windows Host Test		SAFE	0	0	0	0	2	
   	20080624184610	11 - TEST JOB		SAFE	0	0	3	1	9	
   	20080622114328	10 - Test Job		SAFE	0	0	1	0	8	
   	20080618225159	9 - CRON - 192.168.0.0/24	192.168.0.0/24	SAFE	0	6	15	6	107	
   	20080618220212	8 - CRON - 10.0.0.1/24	10.0.0.1/24	SAFE	0	2	5	2	25	
   	20080617182307	7 - Test Scan 04		SAFE						
   	20080617181947	6 - Test Scan 01		SAFE	0	0	3	1	9	
   	20080616215511	5 - Test Job 02		SAFE						
   	20080615210103	3 - Test Scan 01		SAFE	0	0	3	1	9	

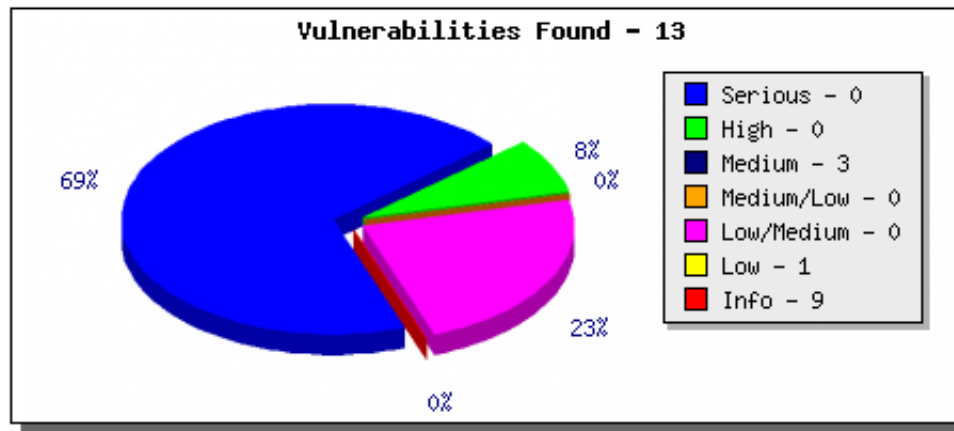
Nessus Reports: are listed (most recent first down to the oldest) as default sort order. Additionally report admins have links to show all reports. Longer term team members will be able to access/share reports per their org membership.

Nessus HTML Report

REPORT FORMAT: **SUMMARY**

Scan results:

Scan time: 2008-06-25 19:52:49	Generated: 2008-06-25 19:52:49
Profile: SAFE - Non Destructive	Job Name: TEST JOB
Owner: userA	Report Format: SUMMARY



Summary of Scanned Hosts

Host	Serious	High	Medium	Medium/Low	Low/Medium	Low	Info
192.168.0.1	-	-	3	-	-	1	9

Html reports provides a drop down to change the view for summary/full/optimized/printable reports.

Nessus PDF Report

IT Security Vulnerability Report								
Scan time: 2008-06-18 22:02:12				Generated: 2008-06-26 18:14:11				
Profile: SAFE - Non Destructive				Owner: userA				
Job Name: CRON - 192.168.0/24								
Subnet Description:								
Total number of vulnerabilities identified on 2 system(s)								
High : 2 Medium : 5 Low : 2 Info : 25						High Medium Low Info		
Total number of vulnerabilities identified per system								
HostIP	HostName	Serious	High	Medium	Med/Low	Low/Med	Low	Info
192.168.0.1	router.fqdn.com	--	--	5	--	--	2	11
192.168.0.30	hosta.fqdn.com	--	2	--	--	--	--	14
192.168.0.1	router.fqdn.com							
Service	Risk	PluginID	Description					
snmp (161/udp)	Medium	10800	Synopsi : The System Information of the remote host can be obtained via SNMP. Description : It is possible to obtain the system information about the remote host by sending SNMP requests with the OID 1.3.6.1.2.1.1.1.					

PDF reports flow: sorted by IP;
Risk: High -> Low

filtering can be done through
partical URL contruction, as
Network Hosts does

&critical=2 will show
Critical/High only for all hosts
on the port

such `hxxp://site/respdf.php?`
`scantime=blah...&critical=2`

additionally filter to single host
as `&filterip=x.x.x.x`

`hxxp://site/respdf.php?`
`scantime=blah...&filterip=x.x.x.x`

can mix and match

Top 10 Vulns by Risk

Top 10 Vulnerabilities - Most Recent Scan

By Nessus Risk

Serious

ID	Name	Count
29893	Vulnerabilities in Windows TCP/IP Could Allow Remote Code Execution (941644)	63
29309	Vulnerability in Message Queuing Could Allow Remote Code Execution (937894)	58
24340	Cumulative Security Update for Internet Explorer (928090)	51
22056	Flash Player APSB06-11	11
23646	Vulnerability in Workstation Service Could Allow Remote Code Execution (924270)	6
22182	Vulnerability in Server Service Could Allow Remote Code Execution (921883)	5
22183	Vulnerability in DNS Resolution Could Allow Remote Code Execution (920683)	5
21692	Vulnerability in Server Message Block Could Allow Elevation of Privilege (914389)	2
19999	Vulnerability in the Client Service for NetWare Could Allow Remote Code Execution (899589)	1
20906	Vulnerability in Windows Media Player Plug-in Could Allow Remote Code Execution (911564)	1

Top 10 Vulns by risk is a report that allows you to find the single greatest risk per one of your sites and focus on a task that will give significant ROI.

Top 100 Vulnerable Hosts

Top 100 "" Vulnerable HOSTS

Most Vulnerable Host

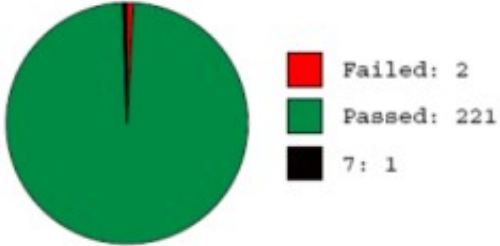
	Status	Name	HOSTNAME	Critical/Hig
1	Not present	192.168.0.30	testhostA	23
2	Not present	192.168.0.25	testhostZ	21
3	Not present	192.168.0.110	testhostD	20

Top 100 hosts shows the Top 100 hosts per the most recent scan. This report can be viewed per site or enterprise wide for report Admins.

A link from the Hostname will take you to the a filtered view of "Network Hosts" to include the host"

****Note status = "Not present"** - *this is code designed to ping each host at time of page load. Currently executing code such as ping via the "PHP" page is disabled. So all hosts will report not present regardless of existence/status on the network"*

Compliance Auditing

IT Security Compliance Audit				
Scan time: 2008-06-23 12:45:19		Generated: 2008-06-23 12:45:35		
Profile: Compliance		Owner: usera		
Job Name: Audit Test 4				
Windows Compliance Check: IE7_NIST_v90_v2.audit				
Windows File Contents Compliance Check:				
Unix Compliance Checks:				
Total number of Policies Audited on 1 system(s)				
				
Total number of vulnerabilities identified per system				
HostIP	HostName	Failed	Error	Passed
192.168.0.99	gold_test.fqdn.host	2	--	221
192.168.0.99	gold_test.fqdn.host			
Check	Status	Description		
Windows Compliance Checks	Failed	"Interactive logon: Message text for users attempting to log on": [FAILED]		