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BYOD - Bring Your Own Devastation
Taking On the Mobile Threat

“Vulnerabilities Exposed” Webcast Series - Part 3

Paul Asadoorian and Jack Daniel

“Vulnerabilities Exposed” Series

- Part **3** of a 4-part series
  - Part 1: “Reducing Your Patch Cycle to Less Than 5 Days”
  - Part 2: “Addressing the Security Challenges of Virtualization”
- Archives & slides: www.tenable.com/vulns-exposed

Strategies & solutions for today’s common security challenges

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Today's Webcast Roadmap

- Mobile evolution – How we got here
- Mobile challenges – The problems we face
- Solutions – Procedural & tactical

Technology Evolves…

PC in 1981/1982

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Approximate Cost: $3,000.00

Cell Phones Circa 1991/1992

$300.00 for the phone, likely plans were pay-per-minute

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Today

- iPhone 5c: $99.00

- Google - Nexus 7" tablet with 16GB memory (2nd generation): $229.00

- Dell - refurbished - 14.1" Latitude notebook - 2GB memory - 60GB hard drive: $203.63 (free shipping)

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Reality

- For 1/6th the cost of 1st generation PC, you can own a smartphone, tablet, & laptop
- >900,000 apps for iOS & Android respectively

Windows pre-installed on your laptop

If Your Phone Is Not Up to Date…

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Features Rule Upgrades

- "According to statistics from Fiksu, a mobile analysts firm, more than 50% of all iOS devices have upgraded to iOS 7."
  - http://www.latimes.com/business/technology/la-fi-tn-users-are-upgrading-to-ios-7-at-record-pace-20130923,0,5439783.story

- OTA (Over-the-Air) upgrades help, apps are still problematic

Usefulness

- Email
- Corporate Communications
  - Twitter  Facebook  LinkedIn 
- Cloud Apps
  - Salesforce  Dropbox 
- Custom applications
- Retail
  - Payment processors, menus, in-flight

But it just can't be!

"American became the first major commercial airline company to fully utilize tablets in all cockpits during all phases of flight, allowing it to eliminate 24 million pages of paper documents, save an estimated 400,000 gallons of jet fuel each year, worth $1.2 million, and help prevent back injuries among pilots who will no longer have to carry heavy bags full of paper flight manuals."

iPhone holds 62.5% share of U.S. commercial market based on latest quarterly data published by IDC

- http://appleinsider.com/articles/13/07/23/apples-iphone-cements-its-position-as-the-smartphone-of-choice-for-business

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More Reality: BYOD Extends Beyond “Mobile”

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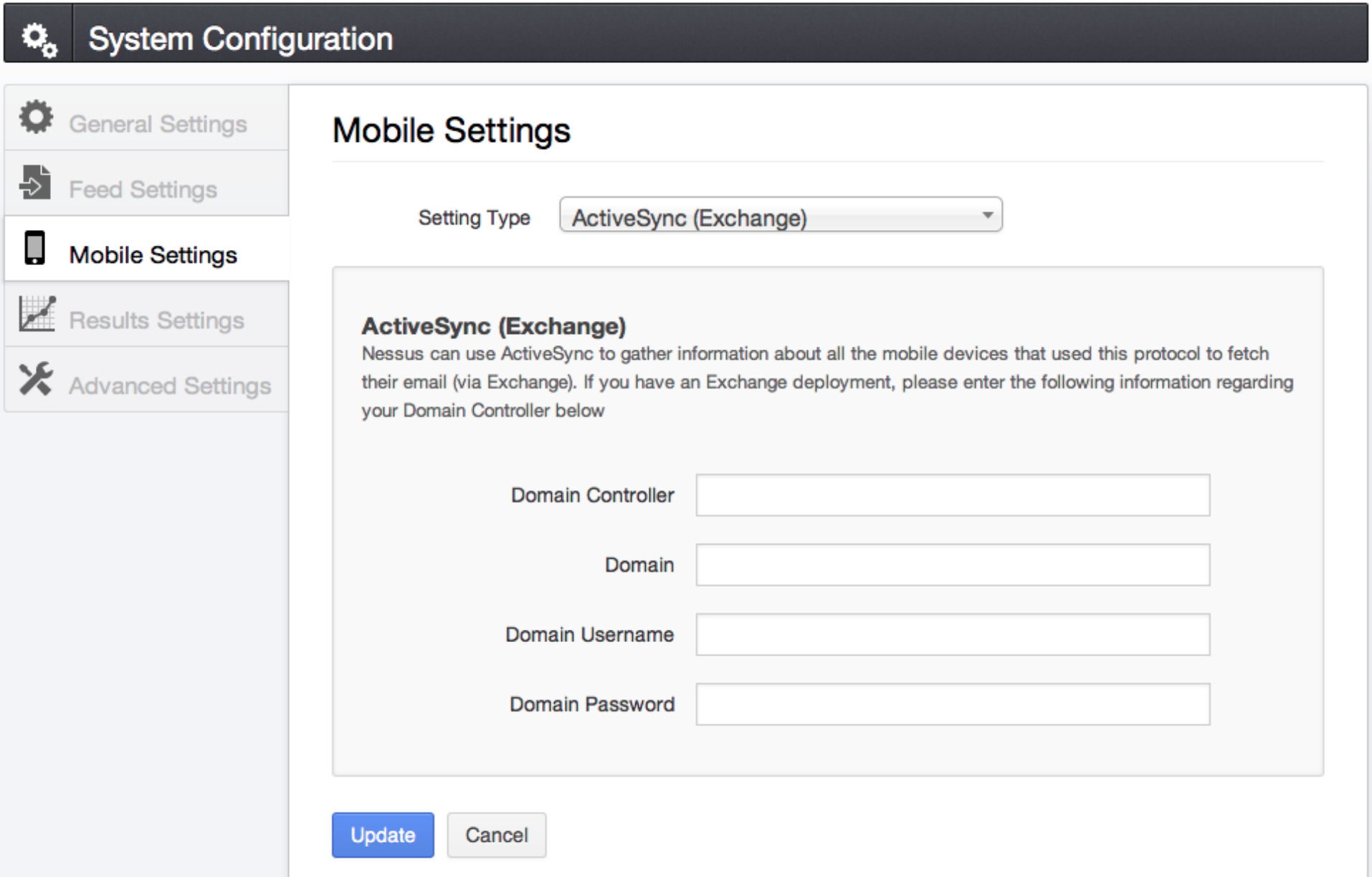
BYOD Destruction

- **Control** – IT no longer has control of device configuration & patch management
- **Data Security** – Physical device security is up to the user & devices access and/or contain data
- **Connectivity** – Devices have multiple paths
  - 3G/4G, WiFi, Bluetooth, NFC

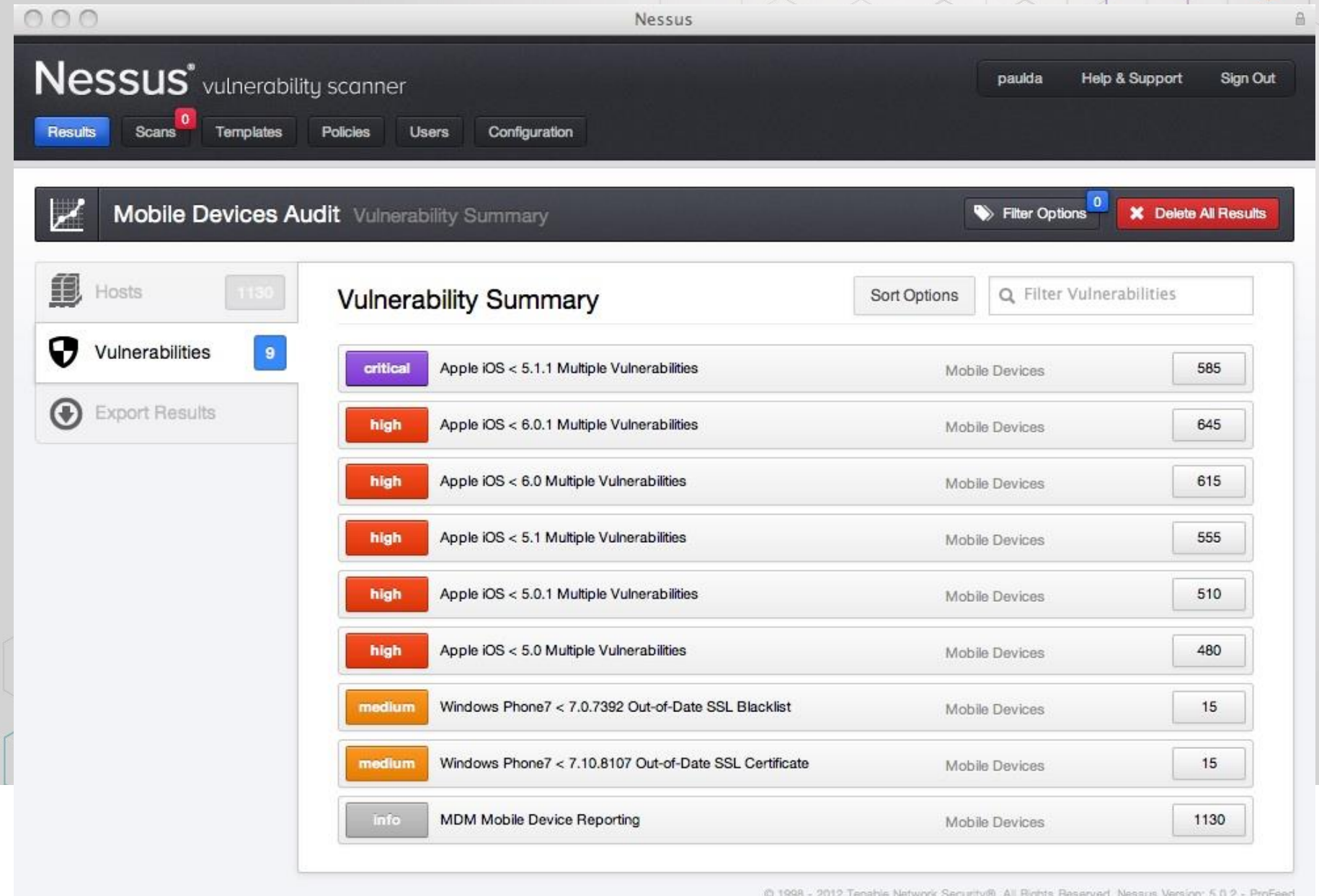
More BYOD Destruction

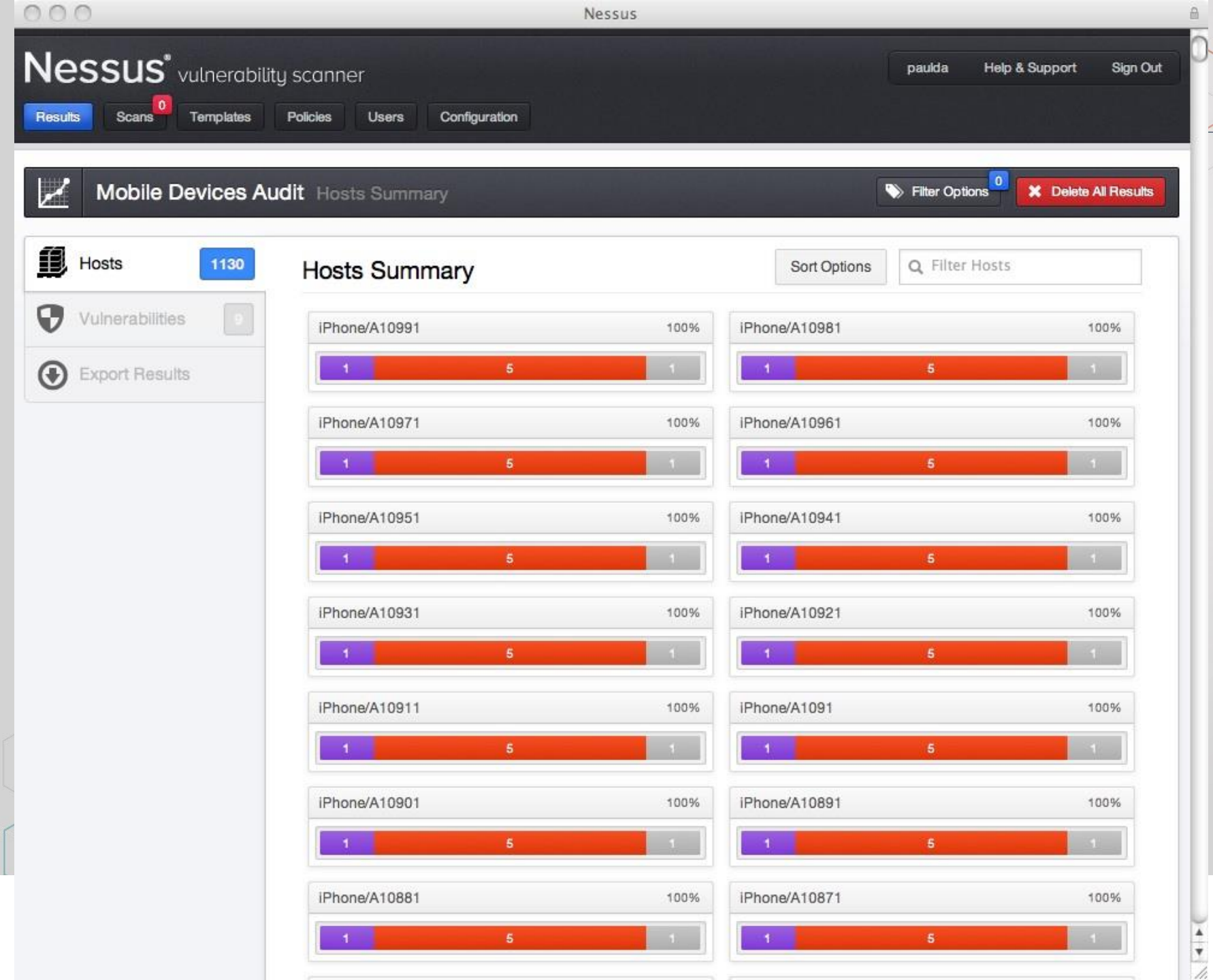
- Software (Apps) – Too easy to install new apps, all of which could contain vulnerabilities
- Malware
- Phishing Attack Vectors – SMS phishing

Audit Mobile Devices



Review Vulnerabilities & “Inventory”



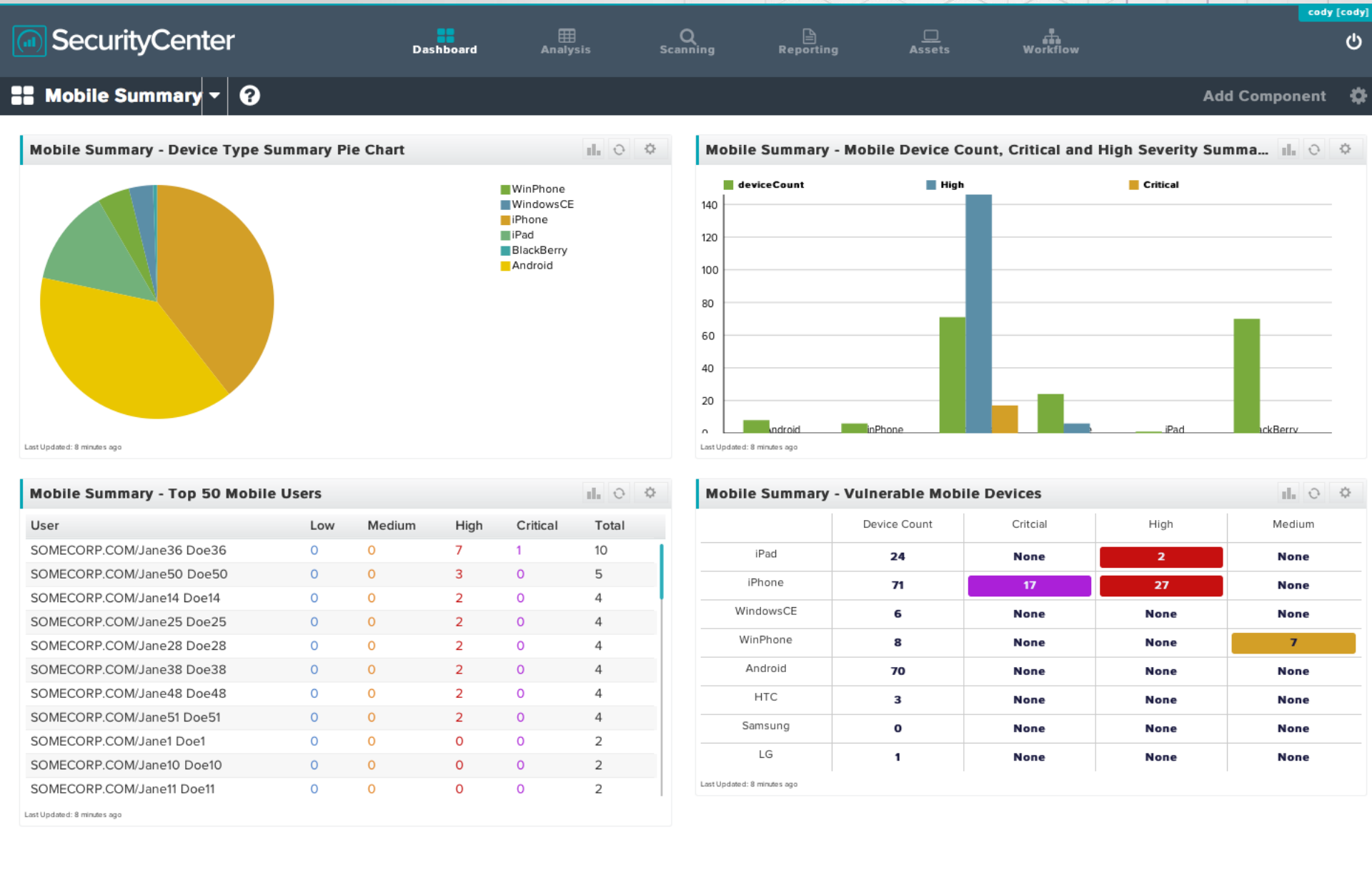

Nessus
Nessus vulnerability scanner
paulda
Help & Support
Sign Out
Results
Scans
0
Templates
Policies
Users
Configuration
Mobile Devices Audit
Hosts Summary
Filter Options
0
Delete All Results
Hosts
1130
Vulnerabilities
0
Export Results
Hosts Summary
Sort Options
Filter Hosts
iPhone/A10991 100%
1 5 1
iPhone/A10981 100%
1 5 1
iPhone/A10971 100%
1 5 1
iPhone/A10961 100%
1 5 1
iPhone/A10951 100%
1 5 1
iPhone/A10941 100%
1 5 1
iPhone/A10931 100%
1 5 1
iPhone/A10921 100%
1 5 1
iPhone/A10911 100%
1 5 1
iPhone/A1091 100%
1 5 1
iPhone/A10901 100%
1 5 1
iPhone/A10891 100%
1 5 1
iPhone/A10881 100%
1 5 1
iPhone/A10871 100%
1 5 1

Apple Profile Manager

Nessus can use Apple's Profile Manager to gather information about the iOS devices managed in your company. If you do have a Profile Manager deployment, please enter the information below (note that it is recommended that Nessus sends an 'update' request to every device and wait for their answer to get the newest data about them

Apple Profile Manager server	
Apple Profile Manager port	443
Apple Profile Manager username	
Apple Profile Manager password	
SSL	☑
Verify SSL Certificate	☐
Force Device Updates	☑
Device Update Timeout (Minutes)	5

Solutions: SecurityCenter



Solutions: Passive Vulnerability Scanner

Mobile Vulns (Passive)

Plugin ID	Name	Severity	Total
5737	Android < 2.3 Multiple Vulnerabilities	High	96
6041	Apple iOS 3.0 through 4.3.5 Multiple Vulnerabilities	High	5
5337	Apple iPhone OS < 3.1.3 Multiple Vulnerabilities	High	4
5578	Apple iPhone/iPad OS < 4.0 Multiple Vulnerabilities	High	3
5715	Apple iPhone/iPad iOS < 4.2 Multiple Vulnerabilities	High	3
5814	Apple iPhone/iPad OS < 4.3 Multiple Vulnerabilities	High	3
5888	Apple iPhone/iPad OS < 4.3.2 Multiple Vulnerabilities	High	3
5986	Apple iPhone/iPad iOS < 4.3.4 and iOS 4.2.5 through 4.2.9 Multiple Vul...	High	3
5110	Apple iPhone < 3.0.1 Overflow	High	2
5160	Apple iPhone < 3.1 Multiple Vulnerabilities	High	2

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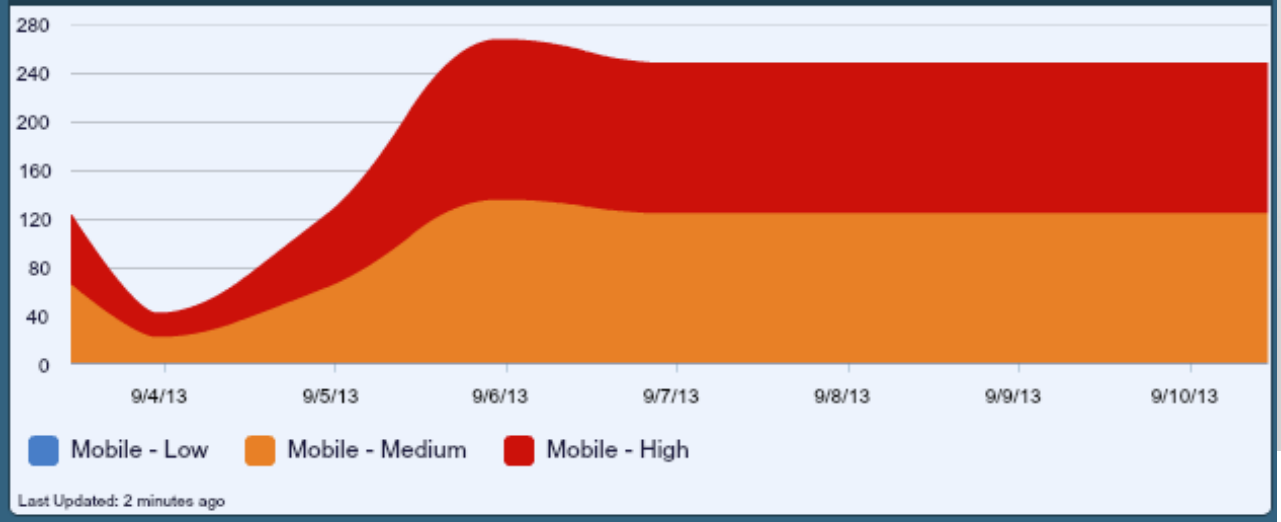
Mobile Trend (Passive)



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Tenable Resources

Blog:
http://blog.tenable.com

Podcast:
http://www.tenable.com/podcast

Videos:
http://www.youtube.com/tenablesecurity

Discussions Forum:
https://discussions.nessus.org

Buy Nessus, PVS, Perimeter Service, Training, & Bundles:
https://store.tenable.com

Find a Channel Partner:
http://www.tenable.com/partners/find-a-subscription-partner

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For More Info or to Evaluate

Nessus:

http://www.tenable.com/products/nessus

PVS:

http://www.tenable.com/products/passive-vulnerability-scanner

SecurityCenter Continuous View:

http://www.tenable.com/products/securitycenter-continuous-view

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Questions?

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Thank You!

Contact us:

Paul Asadoorian – paul@nessus.org
Jack Daniel – jdaniel@tenable.com

“Vulnerabilities Exposed” webcast #4:

November 12th at 2 pm EST

Reporting & Communicating Results

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