Mobile Security

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About Ken Swain

- Presented at Nashville’s own PhreakNic
- Spoke at Gartner on SIEM deployments
- Helped develop HP’s mobile security practice
- Helped design and implement HP’s testing as a service practice
- Works with Fortune 25 companies to implement application and mobile security
- Enough of the brag sheet...let’s get started!
Quick Questions?
Current State of the Mobile Environment

- Rapid growth and deployment of mobile devices
- Users are pushing for more features
- Users inherently trust the device in their pocket
- Ongoing demand for more flexibility from IT at a lower cost
- “Bring your own device” (BYOD) model is growing in large number of IT organizations
- Rapid application development
- Push from power users to have access to sensitive data on device
- MDM widely deployed
Current Threats to the Mobile Environment

- Enterprise attack surface has expanded
- Attackers have moved past firewalls and viruses
- Focus is now on applications
- Carriers can no longer be trusted as a secure source
- The threats are real and ever present
- High profile attacks against applications
  - Apple
  - Sony
  - ExxonMobil
  - LinkedIn
  - Defcon Android Attack
  - The list keeps growing
Another Question
Traditional problems with BYOD

- No control of how the device is used
- No control of what is on the device (Apps)
- No way to know what data is on a device
- Can we even remotely wipe a device we don’t own
Does MDM Solve These Problems?

NOT ALL OF THEM!
What is the ROOT cause?
Solving BYOD Issues

- Make your employees sign a mobile security policy
- Review approved applications
- Move to “Stateless” security
Future State

- Moving away from endpoint control
- More focus on data and not on device
- Relieving burden from IT purchasing budgets
  - Rapid deployments
  - Happy end users!
- Increased overall security on laptops and desktops as well as mobile devices
- Moving to “Stateless” security
“Stateless” Security Advantages

- Reduced attack surface
- Effective placement of security controls at the data, which is of the most value
- Lower cost of ownership to the organization due to the focus on the data and placing security controls early in processes
- Lower cost of ownership for the organization as devices can be brought by the end-users
- Removes the ability of attackers to tamper with data since controls are placed in the application
- Return to old mainframe advantages without the downsides of cost or inconvenience
- Increased productivity for users since security is transparent
- Focus on inexpensive processes rather than expensive technologies
- Easier to achieve and demonstrate compliance
Ken, have you lost your mind?!?!
Conclusion

• Mobile devices are the next battle ground

• Solutions exist to aid in security today

• Application reviews and security policies are the stop gap

• “Stateless” security is the future

• Companies that plan and prepare now will be best positioned to support increasing demand for mobile services while still managing security risks
Thank You

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