Beta Presentation
ITPro Company Portal

The Capstone Experience

Team Microsoft
Bryce Hrusovsky
Reid Wildenhaus
Sam Batali
Jingwei Wan

Department of Computer Science and Engineering
Michigan State University
Fall 2019
Project Overview

• Created an application that helps IT specialist manage and configure devices and apps that access corporate Resources.
• IT specialist can create policies in the App and deploy the policies to registered devices to grant those devices access to a resource.
• The App makes it easy for IT specialist to assess security Risk saving them time and money.
System Architecture

Microsoft Admin & Employee
- Target Version 13
- Target API Version: 28 (Pie)
- Legacy Version: 19 (KitKat)
- Operating System Target
  Windows 10 Version 1903

C# Tools Language
Spec: 3.2.1

Xamarin
Framework Version:
16.2.0.95

Microsoft Graph API

Windows
Microsoft Intune

iOS

Android
Main Dashboard

Welcome, Sam.

Device compliance status

<table>
<thead>
<tr>
<th>STATUS</th>
<th>DEVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliant</td>
<td>0</td>
</tr>
<tr>
<td>In grace period</td>
<td>0</td>
</tr>
<tr>
<td>Not evaluated</td>
<td>0</td>
</tr>
<tr>
<td>Not compliant</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
</tr>
</tbody>
</table>

Device protection status

<table>
<thead>
<tr>
<th>DEVICE STATE</th>
<th>DEVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pending security update</td>
<td>0</td>
</tr>
<tr>
<td>Pending full scan</td>
<td>0</td>
</tr>
</tbody>
</table>

Welcome, Sam.

Device compliance status

<table>
<thead>
<tr>
<th>STATUS</th>
<th>DEVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compliant</td>
<td>0</td>
</tr>
<tr>
<td>In grace period</td>
<td>0</td>
</tr>
<tr>
<td>Not evaluated</td>
<td>0</td>
</tr>
<tr>
<td>Not compliant</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
</tr>
</tbody>
</table>

Device protection status

<table>
<thead>
<tr>
<th>DEVICE STATE</th>
<th>DEVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pending security update</td>
<td>0</td>
</tr>
</tbody>
</table>
Single Device Display

Reid's Phone
Last Sync: 10/12/19 at 14:33 PM

Device information
- Manufacturer: Google
- Model: Pixel
- Operating System: Android
- OS Version: 9.0
- Storage space: n/a
- MAC Address: AC37434C8BE7
- Serial Number: FA69D0302222

Device security
- Last Sync: 10/12/19 14:33 PM
- Enrolled: 10/12/19 14:31 PM
- Enrollment Type: User Enrollment
- Compliance State: Non-compliant
- Encrypted: Yes
- Jailbroken: n/a

Options:
- View policies: Assigned Policies: 5
- Sync: Update this device's information
- Lock: Remotely lock this device
- Retire: Remove access to company resources
- Wipe: Wipe all data on this device
Edit Policies Screen

System Security

Password
- Require password
  - Required password type: Device default
- Minimum password length: 4
- Lock screen grace period: 0
- Password expiration (days): 30
- Password reuse allowance: 1

Encryption
- Require device encryption

Device Health

Rooted devices

Block rooted devices

Enable threat protection

Max threat level:
  - Secured

Google Play Protect
- Require Google Play Services
- Require most recent security provider
- Require threat scan on apps
- Require SafetyNet basic integrity
- Require SafetyNet certification
Configuration Creation Screen

- General Restrictions
  - General
    - Block camera
    - Block copy & paste
    - Block clipboard sharing
    - Block diagnostic data
    - Block factory reset
    - Block location
    - Block power-off
    - Block screen capture
    - Block voice assistant
    - Block YouTube
  - Encryption
    - Require encryption
  - Google Play
    - Block Google Play

- Apps
  - Document security
    - Block corporate documents in non-corporate apps
    - Block non-corporate documents in corporate apps
    - Treat Airdrop as unmanaged destination
  - Store
    - Block App Store
    - Block App Store app installation
    - Block automatic app downloads
    - Require password for all purchases
    - Block in-app purchases
    - Block iBooks Store
    - Block adult content in iBooks
    - Block explicit iTunes content
What’s left to do?

• UI touch ups for UWP platform
• Small bug fixes
• Testing
Questions?