MSU Information Security

Seth Edgar
Chief Information Security Officer
IT Security Enhancements

Objective:
• Diminish IT security risks to an acceptable level and become the most effective IT function; enable the University to make informed decisions based on risk.

Approach:
• Establish a practical information security program that enables MSU

Focus areas:
• Trends in IT Security
• Security Approach at MSU
• What’s Next!
## Security Trends at MSU, Year in Review

<table>
<thead>
<tr>
<th>Category</th>
<th>2016/17</th>
<th>2017/18</th>
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</thead>
<tbody>
<tr>
<td>Vulnerabilities Remediated</td>
<td>57,749</td>
<td>156,309</td>
</tr>
<tr>
<td>Security Incidents</td>
<td>876</td>
<td>1,157</td>
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<tr>
<td>Systems enrolled in Endpoint Protection</td>
<td>15,957</td>
<td>21,012</td>
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<tr>
<td>Systems enrolled in Patch Management</td>
<td>6,921</td>
<td>8,145</td>
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<tr>
<td>Total Attacks caught by secondary Border Protections</td>
<td>3.3M</td>
<td>19.7M</td>
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<tr>
<td>Viruses stopped, Endpoint Protection</td>
<td>43,730</td>
<td>101,158</td>
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</tbody>
</table>
Risk Based Approach - Purchasing Process

- Initial Purchase Requirements
- Security Overview Questionnaire
- Elevated Risk Security Questionnaire
- Specific Use-Case Engineering
Upcoming Security Changes

- BETTER OVERLAP WITH EXISTING TOOLS
- WEB APPLICATION FIREWALL UPGRADE
- IDENTITY AND ACCESS MANAGEMENT
- LEGACY DEBT DECOMMISSIONING
- MAIL PROTECTION ENHANCEMENT
- REMOTE ACCESS UPGRADES
- GUIDANCE FOR GRANULAR DATA PROTECTION
- BORDER FIREWALL UPGRADE
- ENHANCED TWO-FACTOR USABILITY
Access Enhancements

- Two-Factor Simplification
- Self-Service Password Reset
- Simplified ARM Requests
- Access Recertifications
IT Enhancements & Security

- Eduroam
- Wireless in Dorms
- IT Discovery
Improving Through MSU IT

What can Information Technology do to improve the faculty, researcher, staff, and student experience? Whether it’s utilizing new technologies, improving processes, or something completely new, we want to know what else we can do. Please post your thoughts and vote up the ideas you support!

Expectations: This challenge will close on Friday, November 30, 2018. Ambassadors for this challenge are listed below. They will review ideas and provide an update to the community on next steps shortly thereafter.

www.ideas.msu.edu