Update on the FY2020 Key Security Initiatives Implementation Roadmap 60×30TX

Texas Higher Education
Coordinating Board

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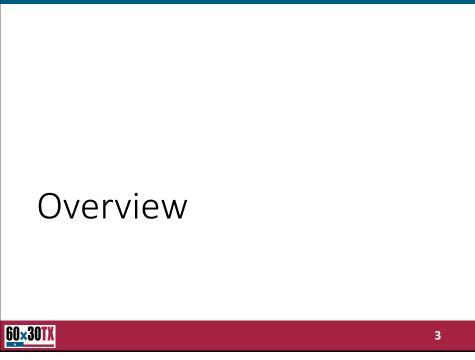
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Agenda

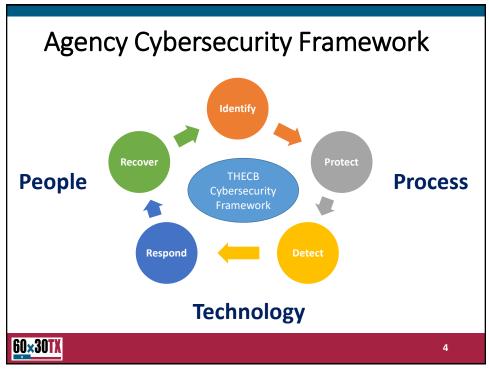
This presentation will cover the following topics:

- Overview
- FY2020 Security Initiatives Implementation Roadmap
- Progress Report
- Next Steps





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Biennial Agency Cybersecurity Framework Assessment

- ➤ The agency is required by the statute to go through a biennial review of its information security program for compliance with the standards set forth by the Texas Cybersecurity Framework.
- The most recent assessment was conducted by AT&T Cybersecurity during May and July 2019.
- ➤ The current maturity level of the agency security framework is 3, which means the agency has well-documented policies and procedures that cover all the controls outlined in the framework.



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Key Recommendations

- ➤ Enforce appropriate protections for data based on classification levels
- Develop an enterprise level Risk Management Program
- Establish performance measures for the agency Information Security Program



FY2020 Security Initiatives Implementation Roadmap



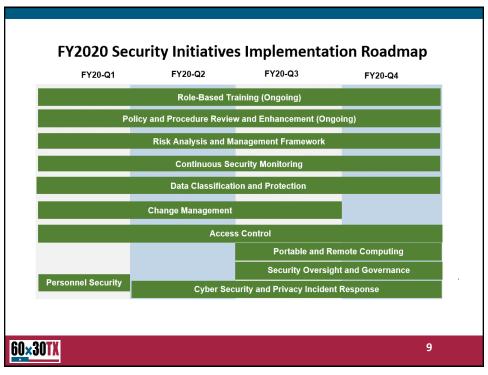
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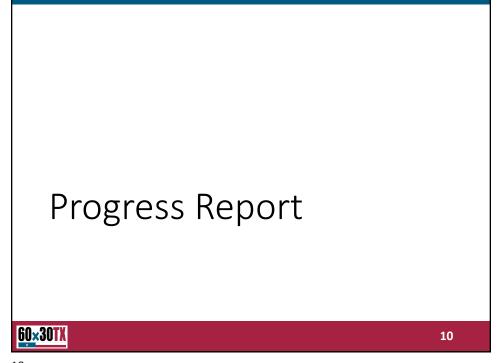
Our Strategy to Mature the Agency Cybersecurity Framework

- Information Solutions and Services division publishes the *Security Initiatives Implementation Roadmap* at the beginning of each fiscal year.
- Input
 - Agency business goals and priorities
 - Recommendations from the biennial assessments
 - Maturity level of the control objectives
 - Agency environment: assets, people, business processes and risks
- Output
 - A prioritized list of projects
 - A relevant and actionable implementation roadmap





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Progress Report

Procurement and Deployment of Web Application Firewall (WAF)

- Obtained legislative appropriation, procured, deployed and managed through the Managed Security Services (MSS) at the State Data Center
- The first agency to deploy WAF at the State Data Center
- Project completed in Q2 FY20
- Ongoing effort to place agency websites under its protection
- Remediates web application vulnerabilities without software redevelopment

Procurement and Deployment of Security Incident and Event Management (SIEM)

- Obtained legislative appropriation, procured, deployed and managed through the MSS
- Project completed in Q1 FY20
- Tuning data collection and reporting
- Tool to inform the new agency Risk Management Framework



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Progress Report

Deployment of Multi-Factor Authentication for Office 365 resources

- For all user types
- Achieved in Q2 FY20

Developed end-user training for Data Classification and Data Loss Prevention

Phased rollout beginning in Q4 FY20

Security Awareness Training

- Among the first five state agencies to gain certification in Q1 FY20
- Continuing to fine tune procedures to ensure compliance with HB3834



Objective	Control Area	FY2019	Aug 2020
Identify	Data Classification	3	3.50
Identify	Enterprise Security Policy, Standards and Guidelines	3	3.00
Identify	Control Oversight and Safeguard Assurance	3	3.00
Identify	Information Security Risk Management	3	3.25
Identify	Security Assessment and Authorization	3	3.00
Identify	External Vendors and Third Party Providers	3	3.50
Identify	Security Oversight and Governance	3	3.25
Protect	Cryptography	3	3.00
Protect	Change Management	3	3.00
Protect	Security Systems Management	3	3.00
Protect	Security Awareness and Training	3	3.50
Protect	Privacy Awareness and Training	3	3.25
Protect	Secure Configuration Management	3	3.00
Protect	Physical and Environmental Protection	3	3.50
Protect	Personnel Security	3	3.00
Detect	Security Monitoring and Event Analysis	3	3.50
Respond	Cyber-Security Incident Response	3	3.50
Respond	Privacy Incident Response	3	3.00

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Next Steps

Retain current appropriation levels for Manage Security Services and Cybersecurity Initiatives

- \$440K appropriated by the 86th legislative session for FY20-21
- Security Incident Event Management
- Web Application Firewall
- Security Assessments
- Identity and Access Management

Designate a Privacy Officer

 Role is essential to support agency strategic goal of becoming a data resource for the higher education institutions and the general public



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Next Steps

Implement Risk Management Program to support resource allocation decisions.

- A "dashboard" for the IT Steering Committee and the executive management to support decision making process
- Key to achieving level 4 Capability Maturity

Deploy Data Classification and Data Loss Prevention controls

Co-deployment with migration to SharePoint and OneDrive Online

Review governance on policy process

Remote work policy and implement related controls



Thank you



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