

Outline

The Tier 4 Challenge

The Adaptive Awareness
Framework

Putting the Framework into Action



The Tier 4 Challenge

Predictive Indicators

Continuous Improvement

Adapts and Responds

Part of the Culture

predictive indicators

Tier 4: Adaptive

manner.

continuous <u>improvement</u>

- Risk Management Process The organization adapts its c lessons learned and predictive indicators derived from pre activities. Through a process of continuous improvement incorporating advanced cybersecurity technologies and practices, the organization actively adapts to a changing cybersecurity landscape and responds to evolving and sophisticated threats in a timely
- actively adapts Integratea n organization-wide approach to managing d policies, processes, and procedures to address potential cybersecurity events. Cybersecurity risk management is part of the organizational culture and evolves from an awareness of previous activities, information shared by other sources, and continuous awareness of activities on their systems and networks.
- External Participation The organization manages risk and actively shares information with partners to ensure that accurate, current information is being distributed and consumed to improve cybersecurity before a cybersecurity event occurs.

The Framework Profile (Profile) is the anginment of the Functions, Categories, and



Adaptive Awareness

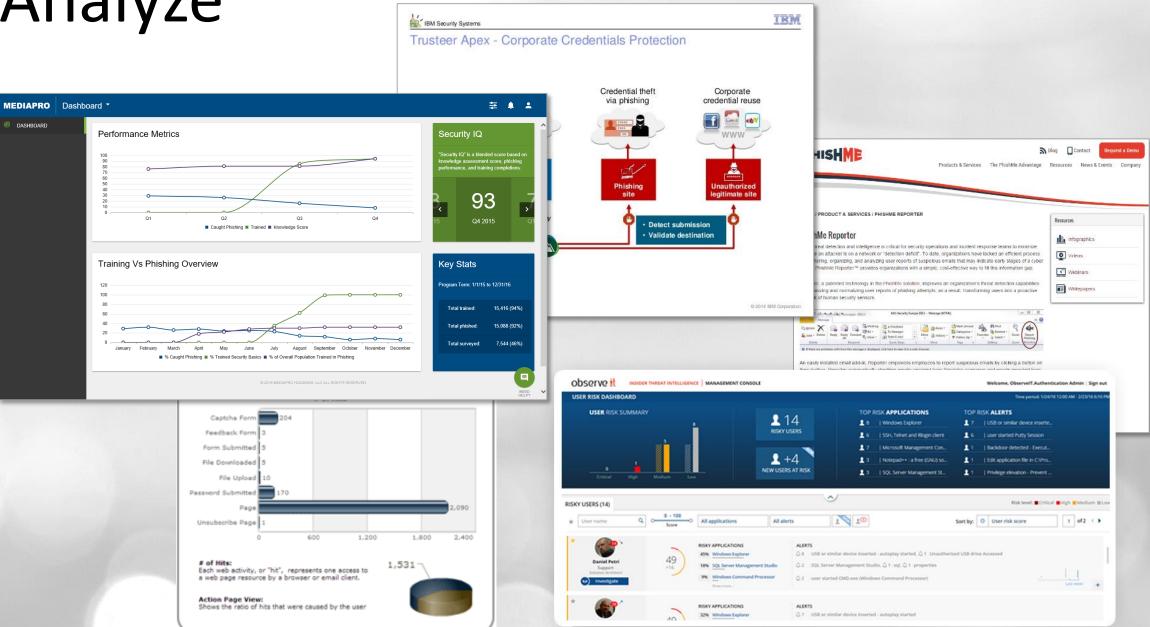
Analyze

Plan

Train

Reinforce

Analyze

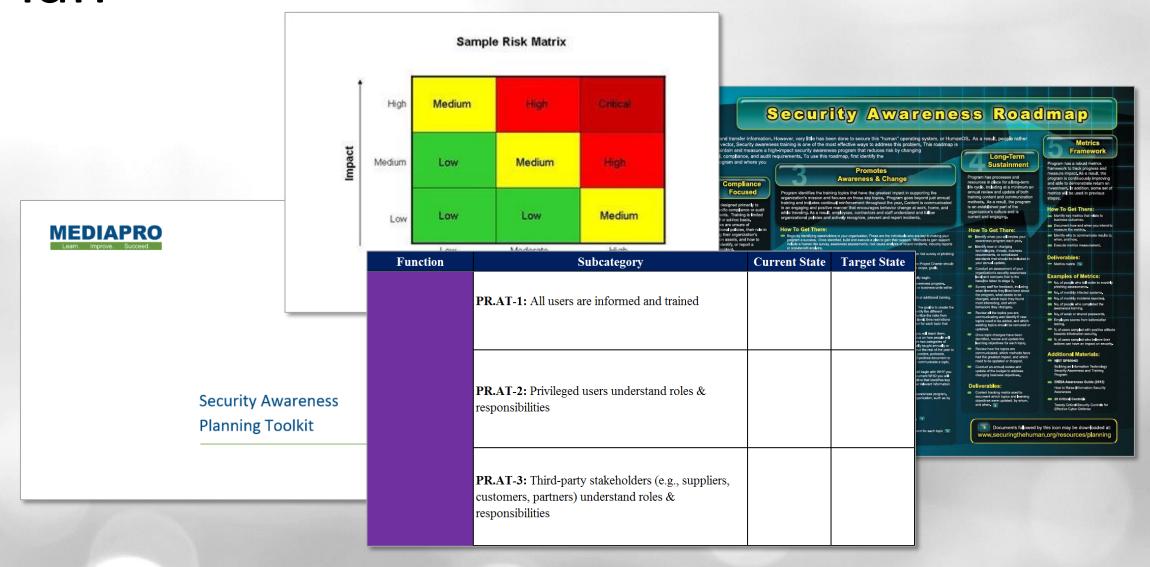


Analyze Options

- Surveys
- Phishing / Social Engineering
- Behavioral Analytics
- Incident Reporting
- Completion Rates
- Other?



Plan





Security Awareness Risk and Intervention Matrix

IDENTIFY RISK Employees are not identifying social engineering or phishing attempts and are thus allowing malware into the org		TARGET BEHAVIOR We want employees to rapidly recognize social engineering or phishing attempts of all kinds, and respond to those attempts following company policies.	TRAIN Phishing topics in Security Basics course Phishing mini course Phishing full course		MEASURE Survey for general ability to understand nature of problem Phish for e-mail violations Phone phish for phone social engineering USB drops
	Employees are using company passwords of unapproved sites (against policy)	We want employees to only use company passwords on approved sites	Password topics in Security Basics	 Onscreen reporting from tool Password posters Manager follow-up 	drops vey for eerstanding of policy og password orting to identify attions

SANS: Securing the Human - Security Awareness Program Execution Checklist



Tasking	Completion	Comments
Plan Approved - Execute		Once plan is approved and signed off, you can execute your plan.
Source Training Materials		Develop or purchase materials for both primary and reinforcement training. If developing internally, identify complexity of materials and resources you require to develop them. If purchasing, be sure to review and test multiple vendors, ensuring content is high-quality, actively updated and meets your requirements.
Test Computer Based Training / Video Training		If your primary training is Computer Based Training (videos), identify where it will be hosted. If hosted internally, make sure training will load in your LMS. Once training is loaded in your LMS or vendor's LMS test all functionality, including login, bookmarking, quizzes and reporting. Technical issues with LMS are one of the most common challenges with most security awareness programs. Then load five to ten users into LMS, have LMS notify test users about training and have them take training. Be sure to test all browser types used in your organization.
Management Briefing		Brief management before rollout begins. Explain what security awareness is, the value to your organization and your overall plan. Include examples of the training. You may also want to train senior leadership at this time, in person.
Help Desk		Ensure help desk is briefed and understands your rollout plan. Give them an FAQ checklist so they can respond to end user questions/problems. If doing a phased rollout, you may want to make them one of the first groups you train.
Executive Announcement		Have a senior executive announce upcoming awareness training/program. Examples include organization-wide email, video or perhaps blog.
	_	If primary training is onsite instruction, send out email announcement and then provide onsite training. If primary training is CBT, load users into LMS and have LMS send out login notifications. Be sure to set a

Planning Options

- Identify Risks
- Target Behaviors
- Identify Tools (Training and Reinforcement)
- Plan to Measure
- Plan to Change

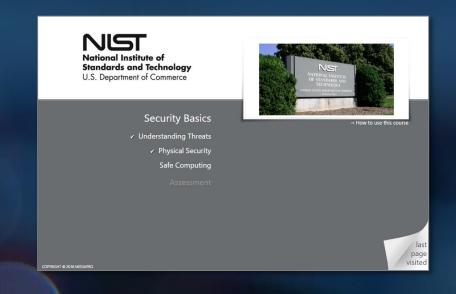
Train



Training Options

- Online or In-Person
- Build vs Buy
- Easy to Refresh/Customize
- Required or Not?
- Behavioral?





Reinforce









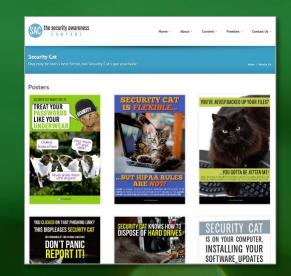












Reinforcement Options

- Cost
- Cultural Fit
- Logistics

Putting It All Together

Start with data: survey, phish, etc.

Draft a plan with flexibility in mind

Announce the program (and keep it positive)

Train

Reinforce continuously

Analyze and Adapt

- Keep gathering data
- Reinforce when identifying problems (phishing, UBA)
- Make it relevant (role-based)
- Use personal follow-up messages to reinforce pressure points

Thank You!

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