



Michigan CU League & Affiliates
Conference
February 11, 2016

Agenda

- Risk Trends
- FFIEC Cybersecurity Efforts
- Cybersecurity Assessment Tool



Risk Trends

Existing vulnerabilities continue to be exploited
 Easily exploitable vulnerabilities persist

New platforms create new cyber attack opportunities

New ways to exploit financial institutions and their customers

Lines between cyber actors are blurring

Commercialization of tools, resources, and infrastructure



Risk Trends

Tactics evolve in response to online behavior

Social networks enable more effective and targeted attacks

Trends in malware are evolving

Destructive malware and cryptographic ransomware

Global unrest results in changing motivations

Regions that either have cyber capabilities or resources to purchase them may turn their focus towards U.S. financial institutions during political and social unrest.



Risk Trends

Potential Impacts

- Financial
- Operational
- Legal
- Reputational



FFIEC CYBERSECURITY EFFORTS



FFIEC Cybersecurity Efforts

- Cybersecurity and Critical Infrastructure Working Group
- Joint statements and alerts
- Cybersecurity awareness website and CEO webinar
- Cybersecurity assessment of community institutions



FFIEC Cybersecurity Efforts

- Issue a Cybersecurity Assessment Tool
- Enhance incident analysis
- Align, update and test crisis management protocols
- Develop training programs for staff
- Update and supplement the Information Technology Examination Handbook
- Enhance focus on Technology Service Providers
- Collaborate with law enforcement and intelligence agencies



FFIEC CYBERSECURITY ASSESSMENT TOOL



Objective

To help institutions identify their risks and determine their cybersecurity maturity.

The Assessment provides institutions with a repeatable and measureable process to inform management of their institution's risks and cybersecurity preparedness.



Consistent with the principles in

- FFIEC Information Technology Examination Handbook (IT Handbook)
- National Institute of Standards and Technology (NIST)
 Cybersecurity Framework
- Industry accepted cybersecurity practices



Consists of two parts

Part One: Inherent Risk Profile

Part Two: Cybersecurity Maturity



Inherent Risk Profile Categories

- Technologies and Connection Types
- Delivery Channels
- Online/Mobile Products and Technology Services
- Organizational Characteristics
- External Threats

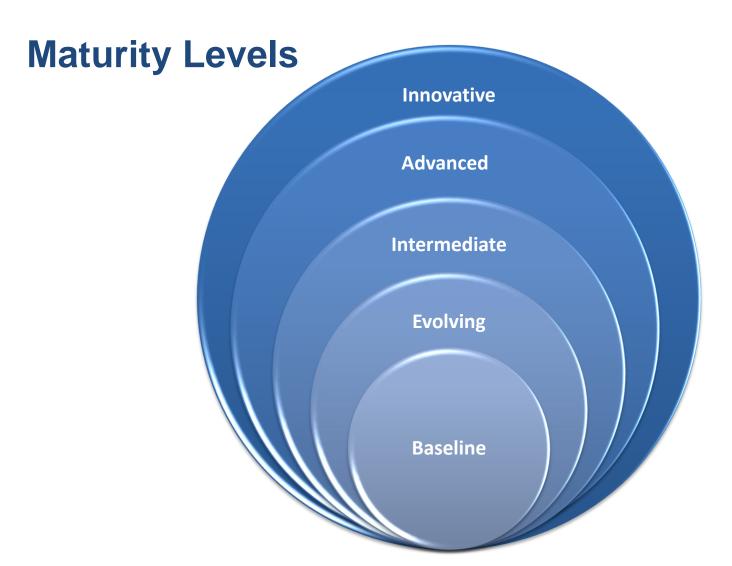


Inherent Risk Profile Risk Levels



Type, volume, and complexity of operations and threats directed at the institution







Cybersecurity Domains

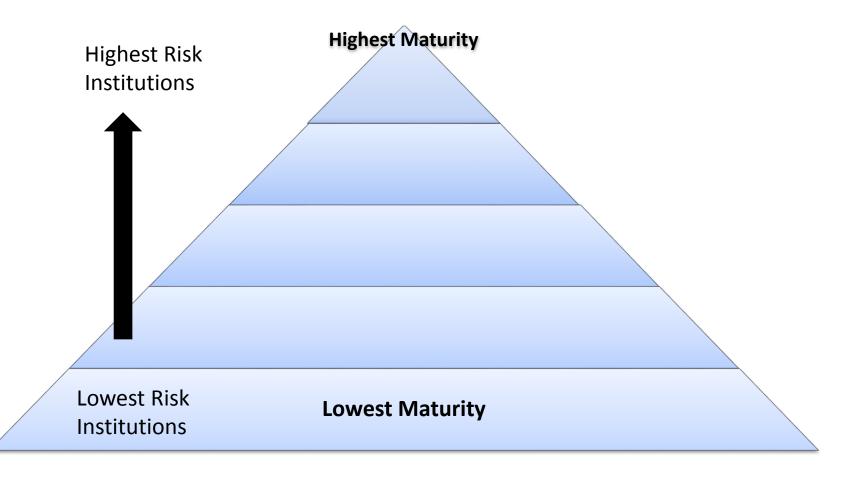
- Cyber Risk Management and Oversight
- Threat Intelligence and Collaboration
- Cybersecurity Controls
- External Dependency Management
- Cyber Incident Management and Resilience



Domain	Assessment Factors
1 Cyber Risk Management & Oversight	GovernanceRisk ManagementResourcesTraining and Culture
2 Threat Intelligence & Collaboration	Intelligence SourcingMonitoring and AnalyzingInformation Sharing
3 Cybersecurity Controls	Preventative ControlsDetective ControlsCorrective Controls
4 External Dependency Management	ConnectionsRelationships Management
5 Cyber Incident Management & Resilience	 Incident Resilience Planning and Strategy Detection, Response and Mitigation Escalation and Reporting

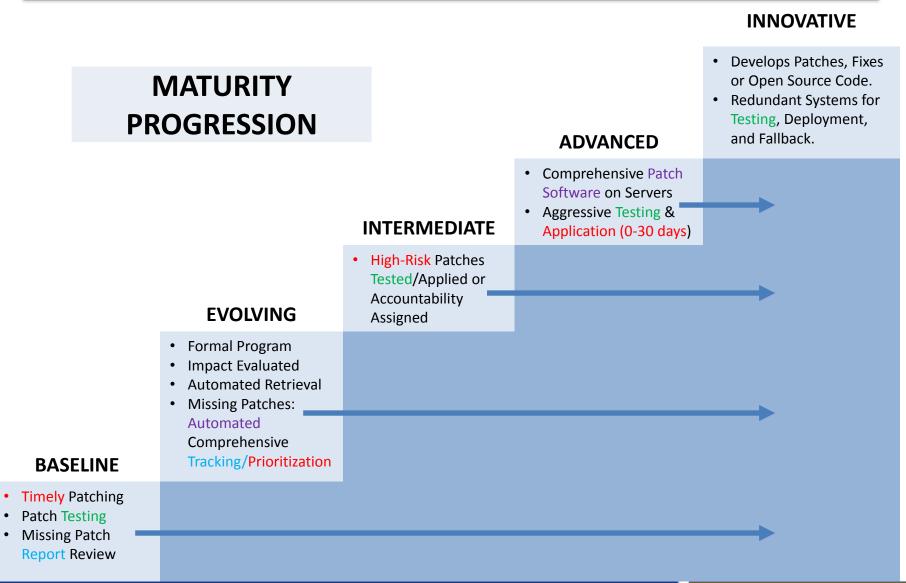


Cybersecurity Maturity/Risk Relationship

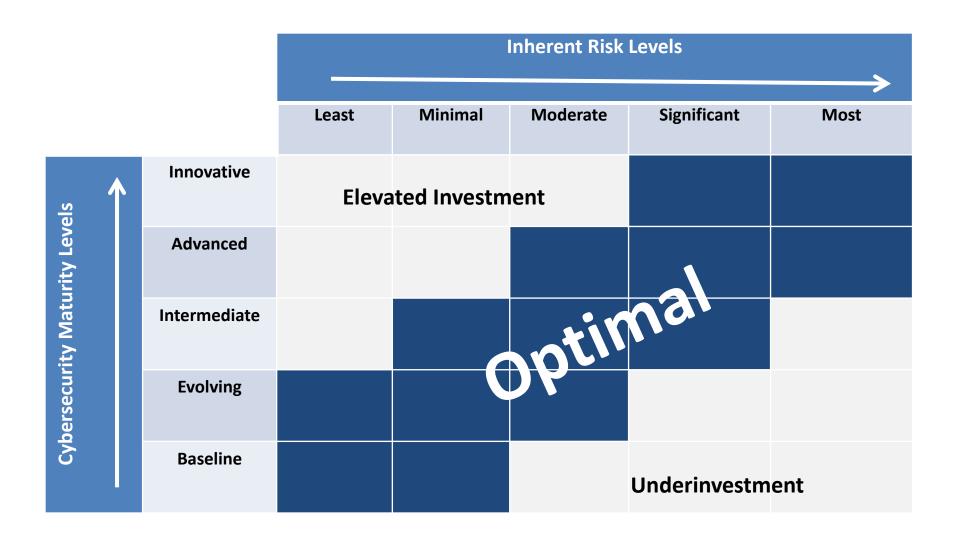




Patch Management



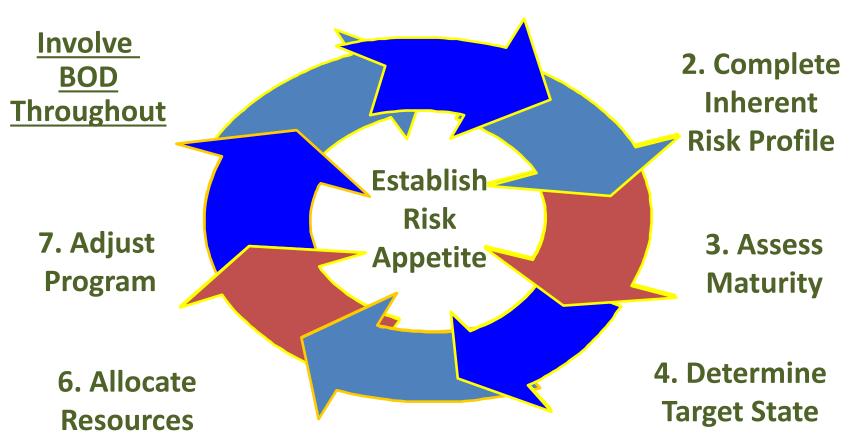






Assessment Process

1. Identify Critical Functions & Vendors



5. Develop Plan to Address Gaps



Supporting Materials

- User's Guide
- Overview for CEOs and Boards of Directors
- Appendix A: Mapping Baseline Statements to FFIEC IT Handbook
- Appendix B: Mapping Cybersecurity Assessment Tool to the NIST Cybersecurity Framework
- Appendix C: Glossary



Benefits to Institutions

- Identifying factors contributing to and determining the institution's overall cyber risk.
- Assessing the institution's cybersecurity preparedness.
- Evaluating whether the institution's cybersecurity preparedness is aligned with its risks.
- Determining risk management practices and controls that could be enhanced and actions that could be taken to achieve the institution's desired state of cyber preparedness.
- Informing risk management strategies.



Thanks For Your Time!

Questions/Comments About the Tool

Dedicated NCUA email for your questions:

CU_cybersecurity@ncua.gov



Office Contact Page

Feel free to contact our office with questions or comments.

Presenter Larry Schoeberl

Supervisory Examiner-Detroit

Ischoeberl@ncua.gov

Questions Tim Segerson

Deputy E&I Director

segerson@ncua.gov

703-518-6397

