

Introductions



Scott Watts Director, Product Management & Strategy NRTC Managed Services



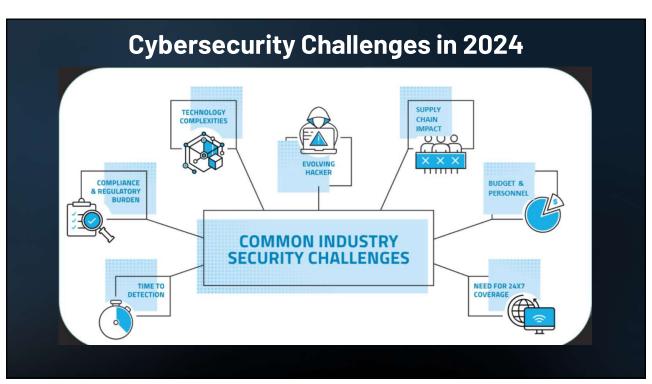


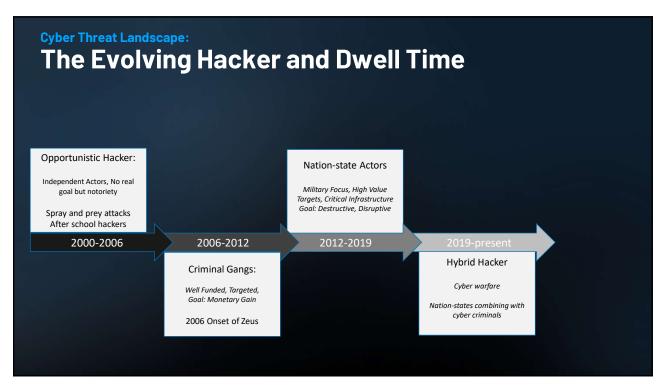
Topics

- Challenges Facing Most Organizations
- Current Cybersecurity Landscape
- Building a Cyber Resilient Program
- Final Words of Advice
- Q&A

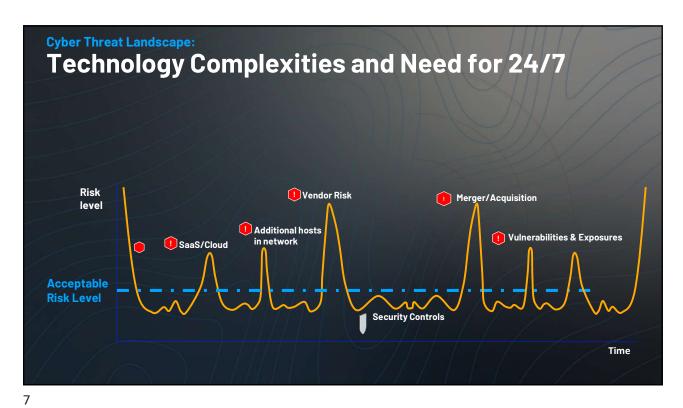
nrťc

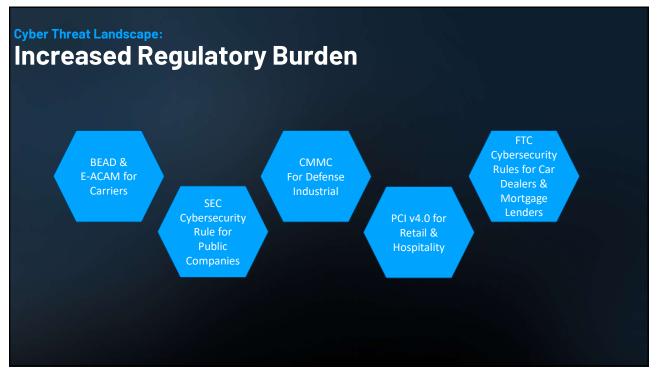
3











Cyber Threat Landscape:

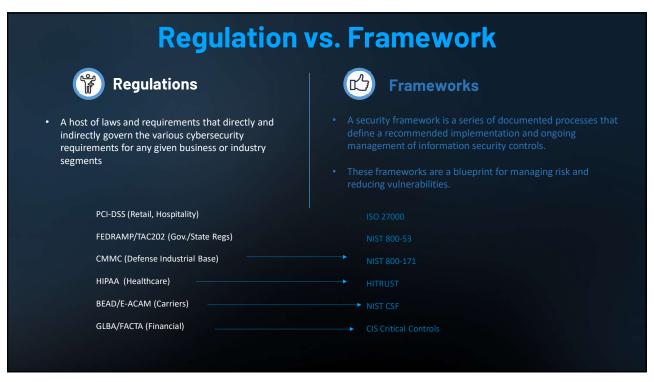
Budget and Personnel Challenges

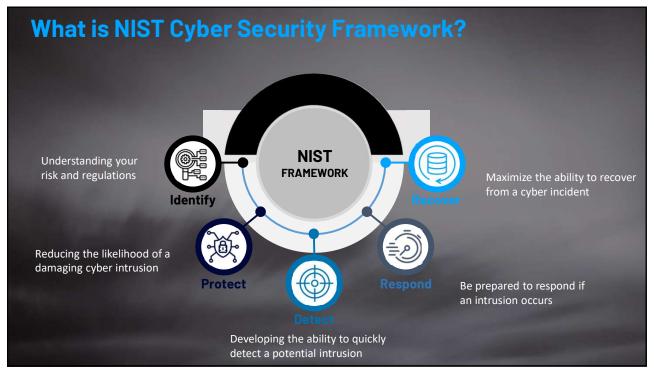
According to the ISC2 2023 Cybersecurity Workforce Study:

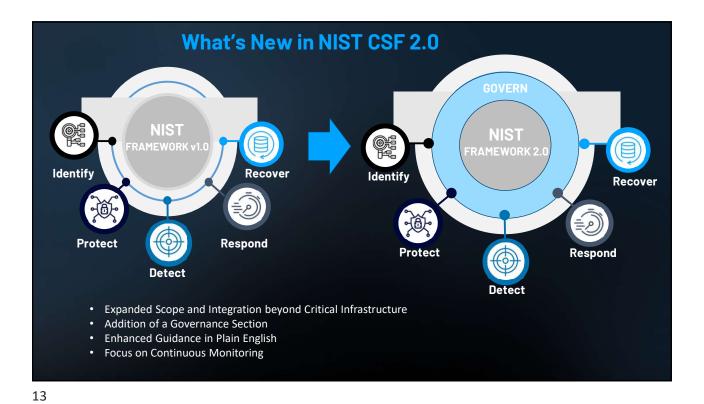
- Security spending still a small portion of overall IT Budgets
- Cybersecurity professionals say the workforce gap remains the number one barrier to meeting their security needs
- Two-thirds (60%) of study participants report a cybersecurity staffing shortage is placing their organizations at risk
- Despite 700,000 new professionals in the cybersecurity workforce, the study shows that global demand for cybersecurity professionals continues to outpace supply
- United States continues to show a shortage of 377,000 unfilled cybersecurity roles.













Goal 2: Reducing the likelihood of a damaging cyber intrusion





Align Protections with Risk Mitigation

 Develop a roadmap of protections starting with high risk, largest maturity gain, or based on critical systems.



Build Processes with Risk in Mind

 Risk Prioritized approach can be applied to most processes in a Cyber Program



Key Protection Elements Every Resilient Program Needs

- Multi-factor authentication
- Back-ups
- Email Protection
- Security Awareness
- Vulnerability and Patch Management

15

Goal 3: The Ability to Quickly Detect a Potential Intrusion





Assess

People:

- Build vs. Outsource
- Train users to report events

Process:

- Develop detections based on threat profiles
- Risk based response

Technology:

• Find the right technology for you (SIEM, SOAR, SOCaaS, MDR)



Visibility

- Detection mechanism should cover key telemetry points.
- Ability for a SOC to piece together an attack - Email, Perimeter, Endpoints, Users
- Periodically test the the effectiveness of your detections



Coverage

- Coverage must be 24x7x365 due to changing Threatscape
- Monitoring is not a check the box activity - All assets and systems should be covered
- Review environment periodically and implement a process to incorporate new devices

Goal 4: Be prepared to respond if an intrusion occurs





Plan

- Develop an IR plan with playbooks for common risk scenarios
- Include Third Parties and Service Providers in Plan
- Build out roles and responsibilities
- Establish internal and external communication plans



Prepare

- Don't assume your MSSP covers incident response
- Establish a relationship with an Incident Response Firm
- Cyber Insurance is not a replacement for a Cyber Program
- Designate a crisis-response team



Practice

- Practice your Incident Response Plan with Tabletop exercises of plan to test scenarios
- Incorporate practice with backup scenarios in your DR/BCP Plan
- Include Service Providers and Third Parties in plan walkthroughs

17

Goal 5: Maximize the ability to recover from a cyber incident





Maintain Good Backups

- Test backup procedures to ensure that critical data can be rapidly restored
- Ensure that backups are isolated from network connections
- Cloud Backups to Alternate Zones



Recovery Plans

- Practice your Incident Response Plan with Tabletop exercises of plan to test scenarios
- Practice backup scenarios in your DR/BCP Plan
- Include Service Providers and Third Parties in plan walkthroughs

Goal 6: Test and Validate Controls



Continuous Monitoring of a Security Program

Continuous monitoring enables you to review cyber processes for adherence to and deviations from their intended performance and effectiveness levels.

Test, Test, Test



Validate your control by implementing a continuous monitoring program or IT Controls reviews



Test your program – Penetration testing, Social Engineering, Red Team Simulations, Backups



Program Improvement – Use Test Results to strengthen controls and re-assess Risk Profiles

19

Final Words of Advice

- There is no finish line!
 - Security threats are changing everyday
- There is no Silver Bullet!
 - Build a program with layers of protection
- 3. Build a Cyber Culture from the top down!
 - It starts with BOD and Executive buy in
- 4. Don't take the Journey Alone!
 - Find a good partner and resources to help



