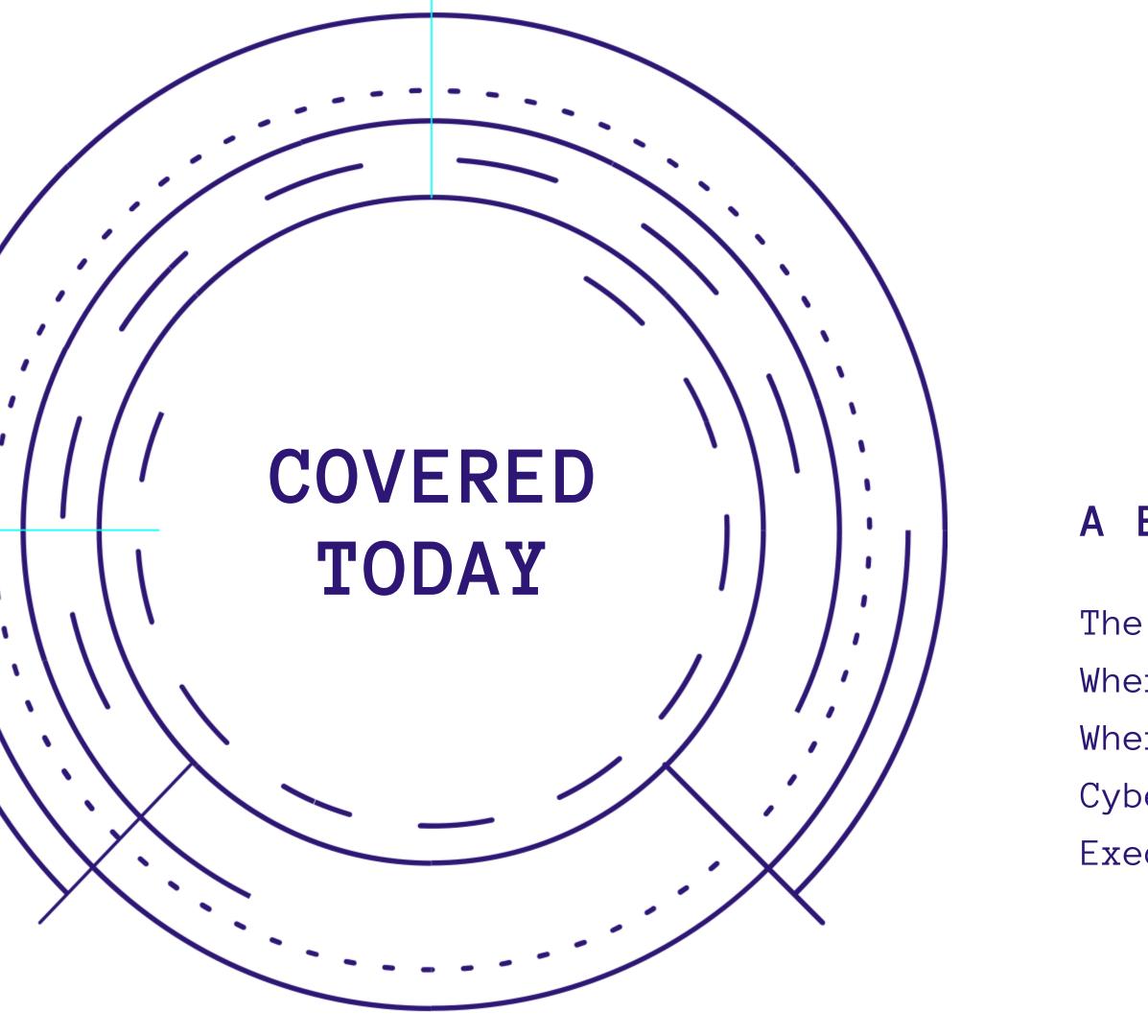
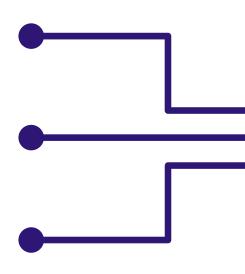
COLLEGE COMMUNITY CLACKAMAS

INFORMATION SECURITY PROGRAM







A BRIEF OUTLINE

- The State of Information Security
- Where are we Today
- Where do we go Next
- Cybersecurity Awareness
- Executive Summary

Attackers: *"It ain't broke, so why fix it?"*

New threat trends in information security aren't *really* new.

Previously understood attacks still work just fine, and so attacks are simply an evolution, not a revolution.

Traditionally, most organizations are not doing a good enough job of the security fundamentals, which is why attackers have been able to use the same old tricks.

However, information security has finally caught the attention of organizational leaders, presenting the opportunity to implement a comprehensive security program.

Persistent Issues



Evolving ransomware

Continual changes in type and platforms make ransomware a persistent threat. The frequency of ransomware attacks was reported last year to have **doubled**.¹



Phishing attacks

Despite filtering and awareness, email remains the most common threat vector for phishing attacks (96%), and an average of 4% of participants in phishing campaigns still click on them.²



Insider privilege and misuse

Typically **28%** of breaches are often perpetrated by insiders, with **12%** involving privilege misuse.² Takeaway: Care less about titles and more about access levels.



Denial of service

attack is three days.²

Emerging Trend



Advanced Identity and Access Governance

Utilizing emerging technologies in automation, orchestration, and machine learning, the management and governance of identities and access has become more advanced.¹

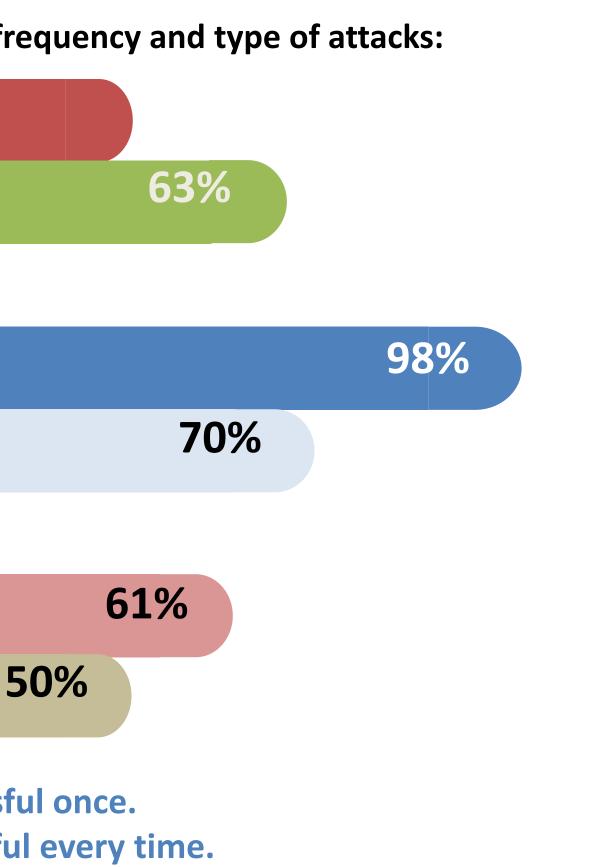
Sources: ¹Ponemon, "2017 Cost of Cyber Crime Study"; ²Verizon, "2018 Data Breach Investigations Report"

The median amount of time that an organization is under attack from a DDoS

In 2016, 237 benchmark companies experienced the following frequency and type of attacks:

Botnets			55%
Web-based attacks			
Malicious insiders	41%		
Viruses & malware			
Phishing & SE			
Denial of services		49%	
Denial of services Malicious code		49%	

An attacker must only be successful once. The defender – you, must be successful every time.



It's not a matter of *if* you have a security incident, but *when*

ORGANIZATIONS NEED TO EXPECT THE INEVITABLE SECURITY BREACH.

90%

of businesses have experienced an external threat in the last year.¹

of IT professionals consider security to be their number one priority.¹

53%

of organizations claimed to have experienced of businesses believe the frequency of an insider attack in the previous 12 months.² attacks is increasing.¹

Effective IT leaders approach their security strategy from an understanding that attacks on their organization will occur. Building a strategy around this assumption allows your security team to understand the gaps in your current approach and become proactive vs. reactive.

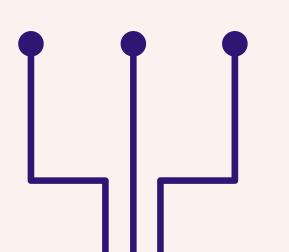
Sources: ¹Kaspersky Lab, "Global IT Security Risks Survey"; ²CA Technologies, "2018 Insider Threat Report"

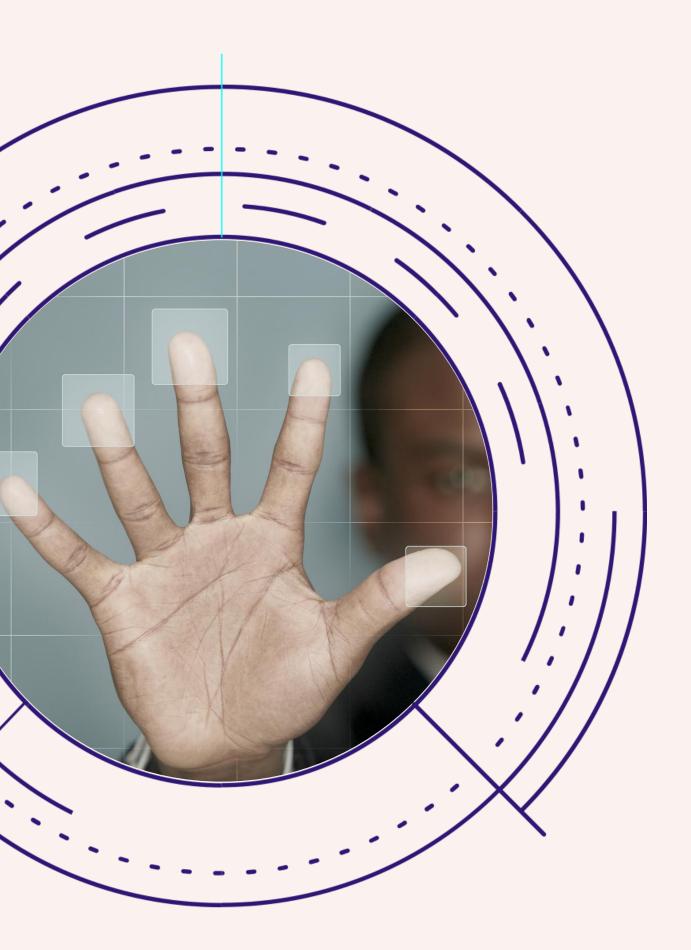
50%

46%

WHERE WE ARE TODAY

Technology sophistication and business adoption, the proliferation of hacking techniques, and the expansion of hacking motivations from financial to now social, political, or strategic motivations have resulted in organizations facing major security risk. Every organization needs some kind of information security program to protect its systems and assets.





FBI Warns Schools To Protect Student Data From Cybercriminals



By Rob Manning (OPB) Portland, Ore. Oct. 10, 2018 6:45 a.m.

When school officials talk about keeping students safe, you might imagine metal detectors and live shooter drills. Or maybe you think of keeping lead out of school drinking water. Both are national problems that have flared in Oregon.

Now national law enforcement leaders are warning about a less obvious threat: the theft of student information.

Faculty, Student Data Compromised in Oregon State Breach

The names and emails of 1,700 Oregon State University students and faculty were exposed after a hacker accessed a computer server. Officials say no Social Security numbers or financial data were exposed in the incident.

US schools have lost 24.5 million records in breaches since 2005



UNCLASSIFIED//FOR OFFICIAL USE ONLY



OFFICE of INTELLIGENCE and ANALYSIS

INTELLIGENCE IN BRIEF

23 SEPTEMBER 2020

CYBERSECURITY

(U//FOUO) COVID-19: Malicious Cyber Actors Likely to Target Schools with Ransomware

(U//FOUO) Scope: This Intelligence In Brief (IIB) seeks to raise awareness of cyber threat actors and their use of ransomware attacks against schools and the potential impacts on school operating environments. This IIB also seeks to provide information on ransomware mitigation methods.

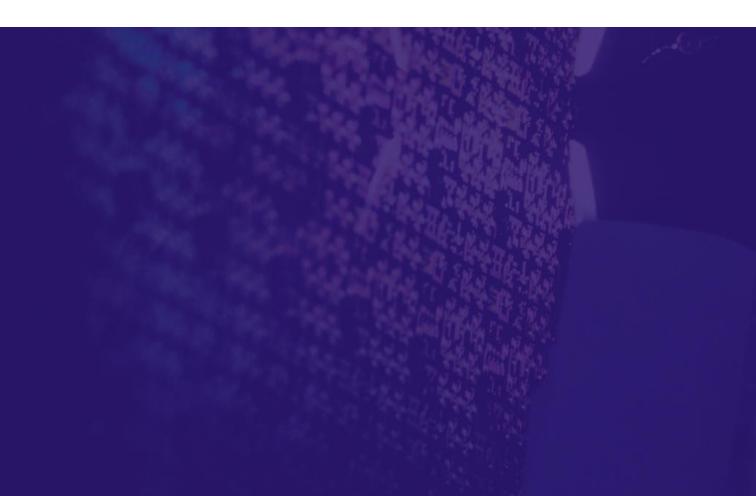




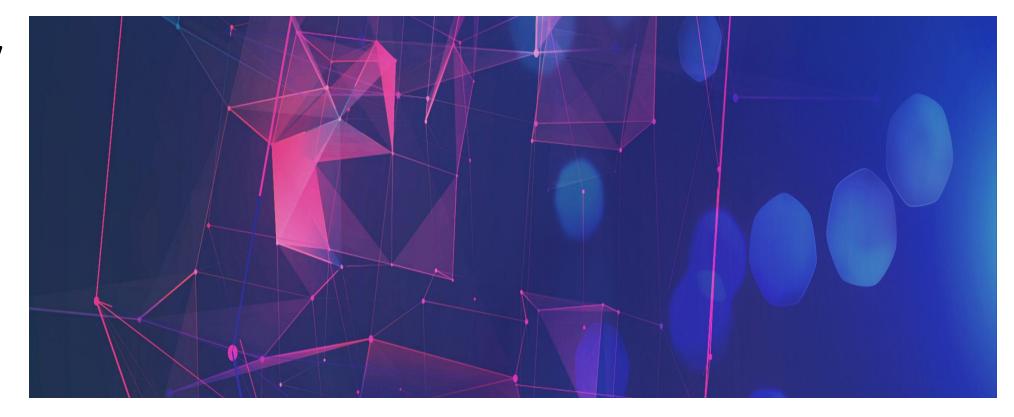
IA-44761-20

WHERE DO WE GO NEXT?

HOW DO WE GET THERE?



Create a robust information security framework with supporting methodologies to generate a comprehensive, highly actionable, and measurable security program and roadmap.



- Robust security requirements gathering across the organization, key stakeholders, customers, regulators, and other parties ensure the security strategy is built in alignment with and supportive of enterprise and IT strategies and plans.
- Security framework that combines COBIT 5, ISO 27000 series, NIST SP 800-53, and CIS critical security controls to ensure all areas of security are considered, covered, and reported upon.
- A comprehensive current state assessment, gap analysis, and initiative generation ensures nothing is left off the table.
- Tested and proven rationalization and prioritization methodologies ensure the strategy you generate is not only the one the organization needs, but also the one the organization will support.

Security Awareness Training

While your employees are your greatest asset...

95% of all cyberattacks are caused by human error...

Companies spend millions on security technology but suffer breaches due to wellmeaning employees unaware of security risks.



Phishing Simulator – Report Suspicious Emails

1.4.10.1	Max Sense	
and the second se	es constra à la sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	
A free free free free free free free fre	Image: Statement of State State Image: Statement of State Image: Statement of Statement	
Facebook Nu/re states to lansma a beta bellar	The 'w instant to become a best tester	
Amazon com ther belie with Amazon on Google Seage Welfunter Lake Jame Smith Manument - Includer to with # Nexe Heals Age #50 - Locate LA What is item UPS Tracking NorthCatton A believe Amang Mostification	Beer (Neeter, Net); We inder you take part in our pains being progen, thill the suggest of last basins, we are allow a service and our output - pushy and basins there you are allow a service and the service and	
A Last Rooth		
Google New sign-it from Occurse an Windows Undoes: Assistant to the Gr	Land de las fais fais fais fais de la construit de	
Any year will a hepublican, Friend Apple illumes Third, year for year parthase - mongi	And an and an a second se	
Steve Wilson Tage HMC project requires your confirms		
Netfix	Alternation Investmentions III	

1

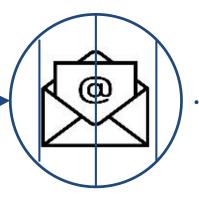
User reports email with **PhishNotify** button







Email quarantined for inspection and classification



3

User notified if reported email is a threat or benign



What is Two-Factor Authentication?

Two-factor authentication adds a second layer of security to your online accounts. Verifying your identity using a **second factor** (like your phone or other mobile device) prevents anyone but you from logging in, even if they know your password.

How It Works



- 1. Enter username and password as usual
- 2. Use your phone to verify your identity
- 3. Securely logged in

OCTOBER MEANS...

1. HALLOWEEN

2. PUMPKIN SPICE LATTES 3. CYBERSECURITY AWARENESS MONTH



STAYSAFEONLINE.ORG/ CYBERSECURITY-AWARENESS-MONTH



Own Your Role in Cybersecurity



LOCK DOWN YOUR LOGIN



WHEN IN DOUBT, THROW IT OUT



KEEP A CLEAN MACHINE







OWN YOUR ONLINE PRESENCE



SHARE WITH CARE









AYSAFEONLINE.ORG/ CYBERSECURITY - AWARENESS - MONTH





CYBERSECURITY IS EVERYONE'S JOB.

INCLUDING YOURS.

CYBERSECURITY AWARENESS MONTH





Do Your Part. #BeCyberSmart

Executive summary

Situation

Technology sophistication and business adoption, the proliferation of hacking techniques, and the expansion of hacking motivations from financial to now social, political, or strategic motivations have resulted in organizations facing major security risk. Every organization needs some kind of information security program to protect its systems and assets.

Complication

Performing an accurate assessment of your current security operations and maturity levels can be extremely difficult when you don't know what to assess or how, along with the fact that an assessment alone is only the starting point. Senior management wants to know that adequate targets have been determined and there is a robust plan for how they are going to be met.

Resolution

Create a robust information security framework with supporting methodologies to generate your organization's comprehensive, highly actionable, and measurable security strategy and roadmap.

- Robust security requirements gathering across the organization, key stakeholders, customers, regulators, and other parties ensure the security strategy is built in alignment with and supportive of enterprise and IT strategies and plans.
- Security framework that combines COBIT 5, ISO 27000 series, NIST SP 800-53, and CIS critical security controls to ensure all areas of • security are considered, covered, and reported upon.
- A comprehensive current state assessment, gap analysis, and initiative generation ensures nothing is left off the table.
- Tested and proven rationalization and prioritization methodologies ensure the strategy you generate is not only the one the organization • needs, but also the one the organization will support.



 \bigcirc

Info-Tech Insight

1. Just because you haven't identified a breach doesn't mean you're secure.

A good security program is proactive about closing security gaps because ignorance is never blissful.

2. Compliance and organizational reputation create an intertwined relationship between the business and your security strategy. Security programs must be regularly assessed and continuously maintained to ensure security controls align with organizational objectives.