Kentucky Nonprofits & COVID-19 – Sector Resources

Cybersecurity in a Pandemic for Small Businesses

All participants have been automatically muted.

During today's conversation, if you would like to submit a question, please use the "CHAT" feature located at the bottom of your Zoom screen.

You can also find COVID-19 resources on www.kynonprofits.org

We will begin the program shortly.

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Cybersecurity in a Pandemic

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Director, Business & Technology Consulting

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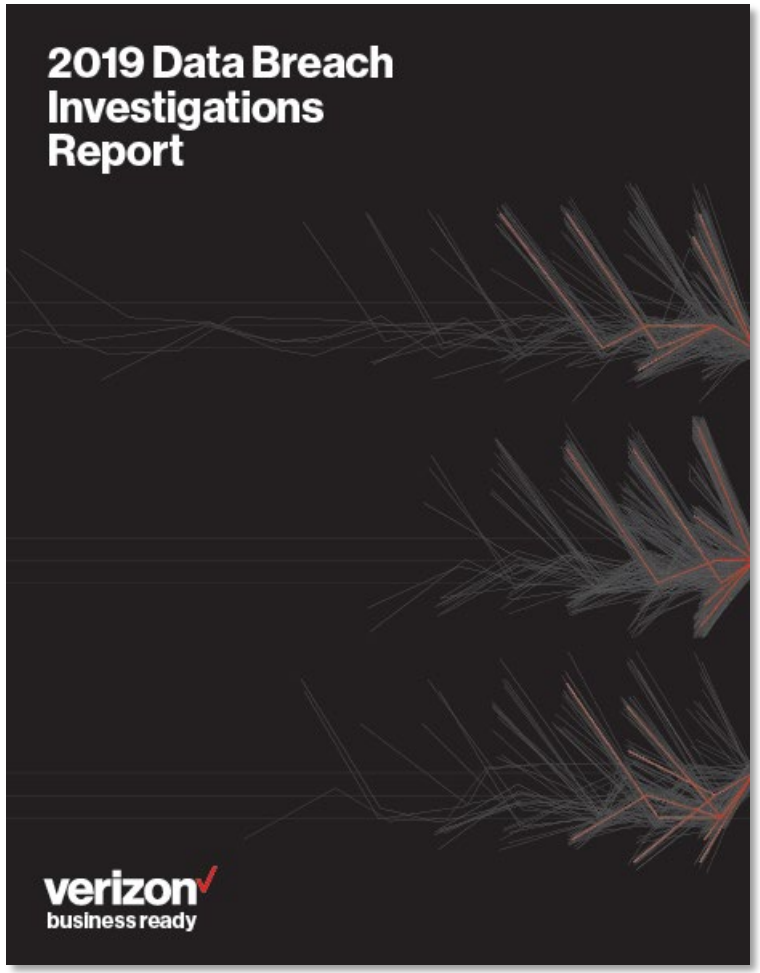
Agenda

1. Small business cybersecurity pre-pandemic
2. Rush to work from home
3. Cybersecurity during a pandemic
4. Online meeting tools discussion
5. Cybersecurity post-pandemic

Small Business Cybersecurity Pre-Pandemic

Industry reports



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Small Business Prime Targets

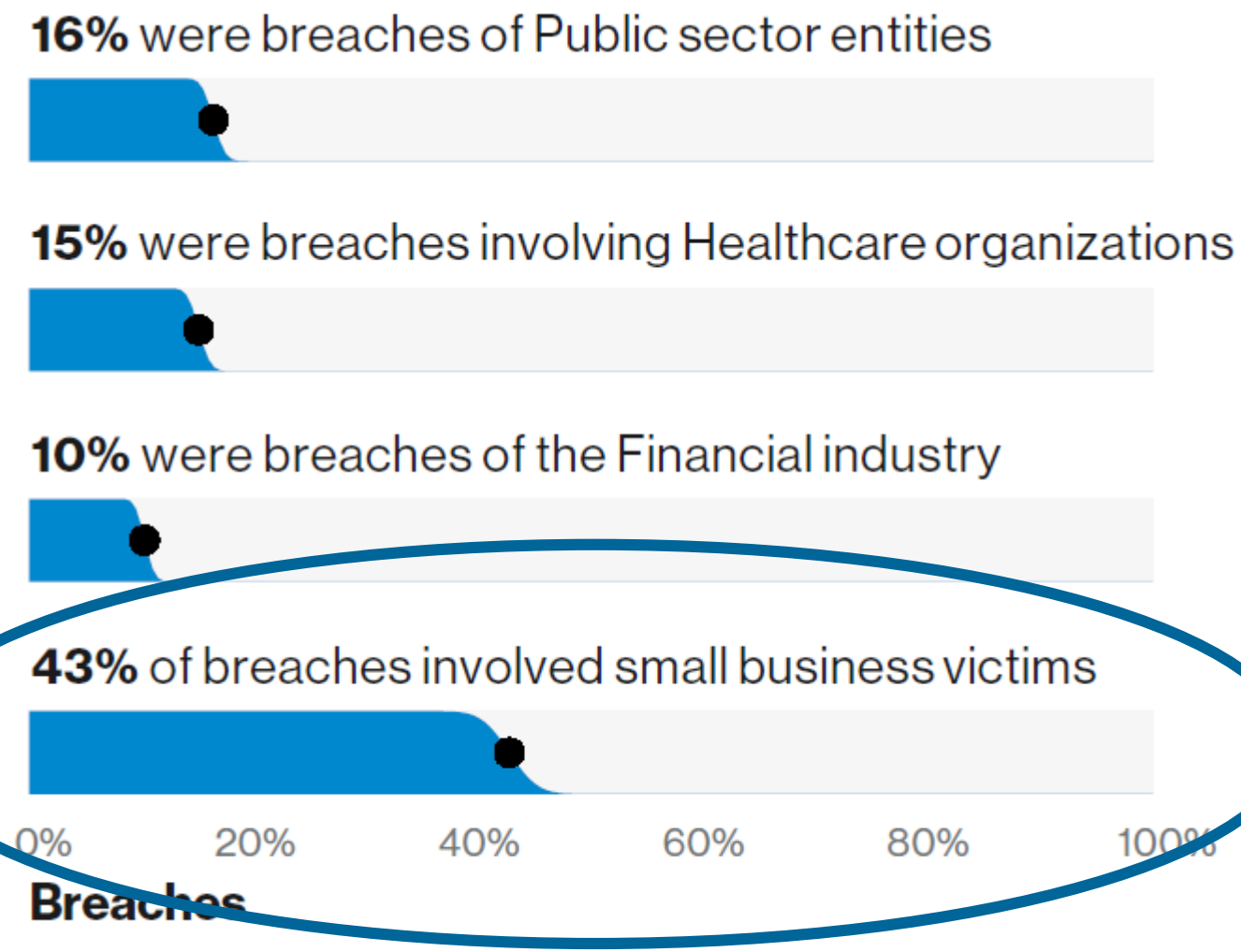
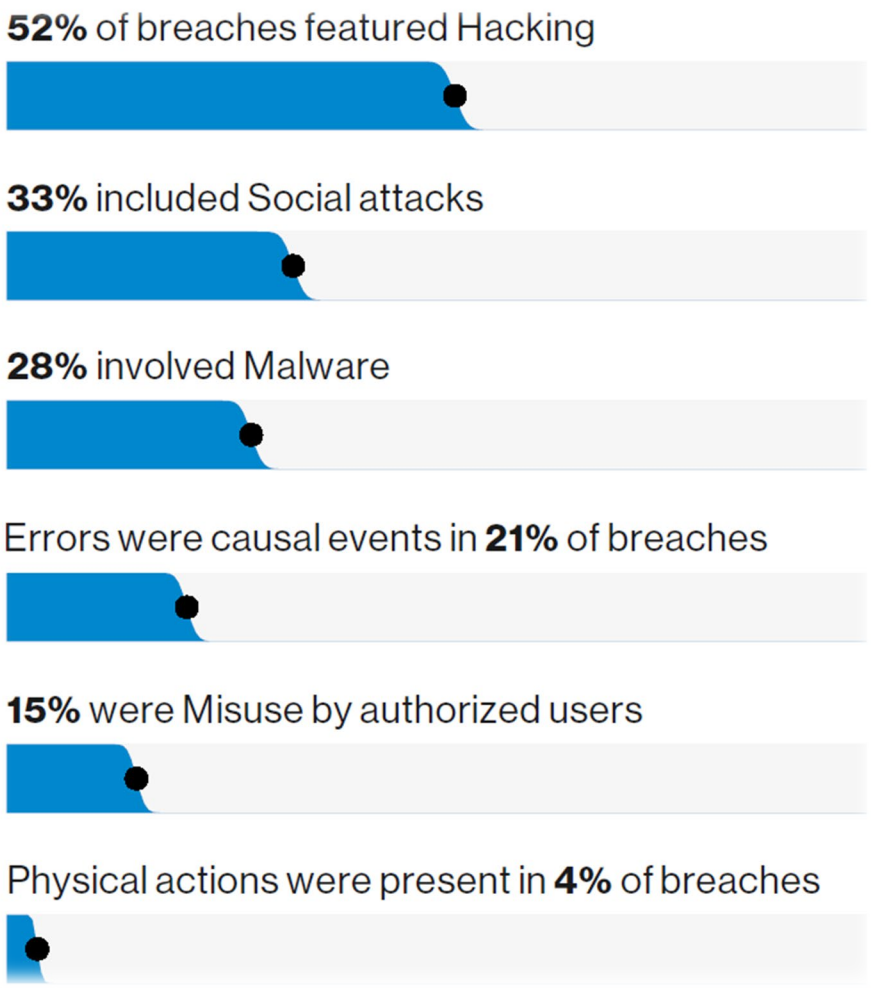


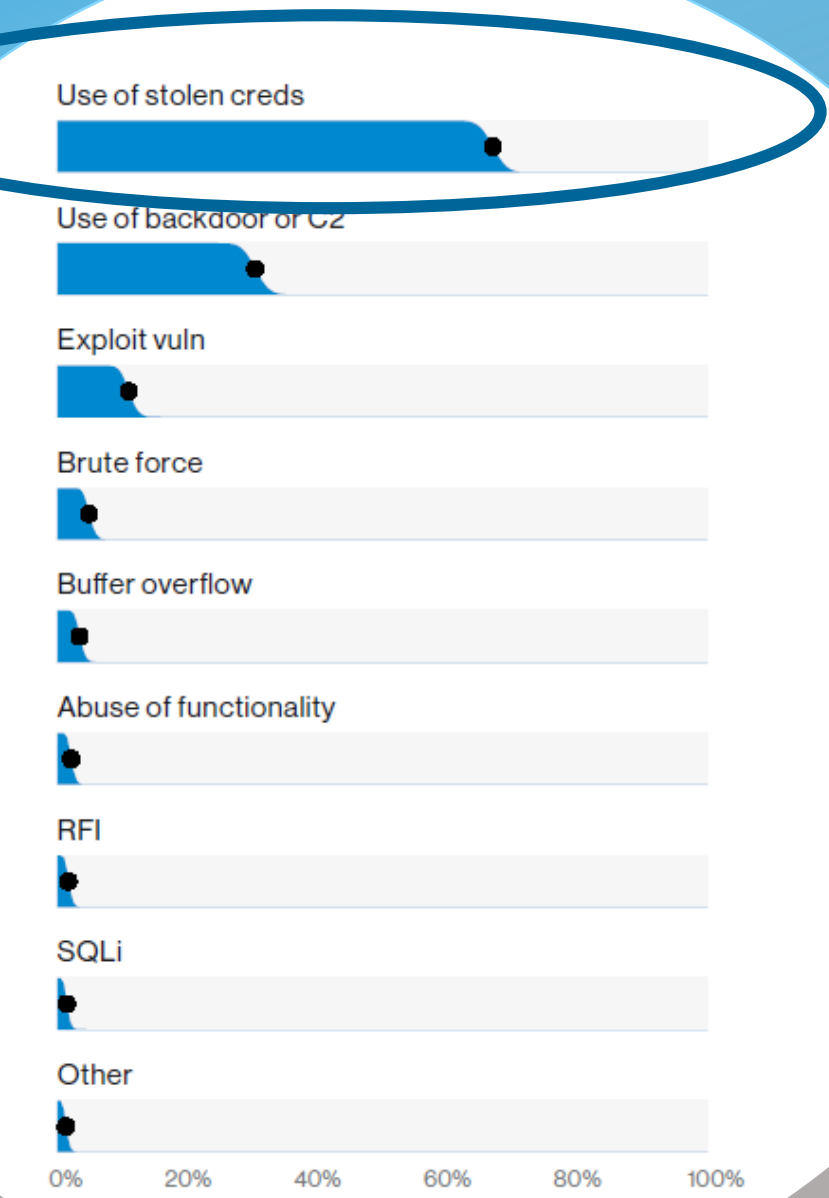
Figure 2. Who are the victims?

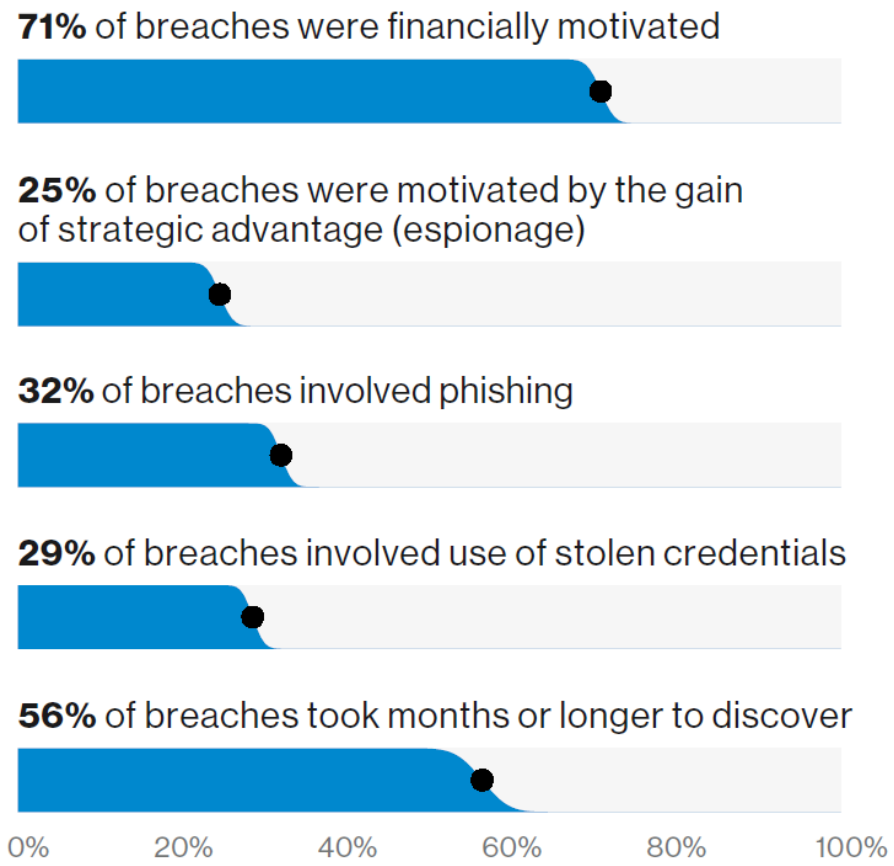
verizon
2019 DBIR



What tactics are utilized?

Top hacking actions?



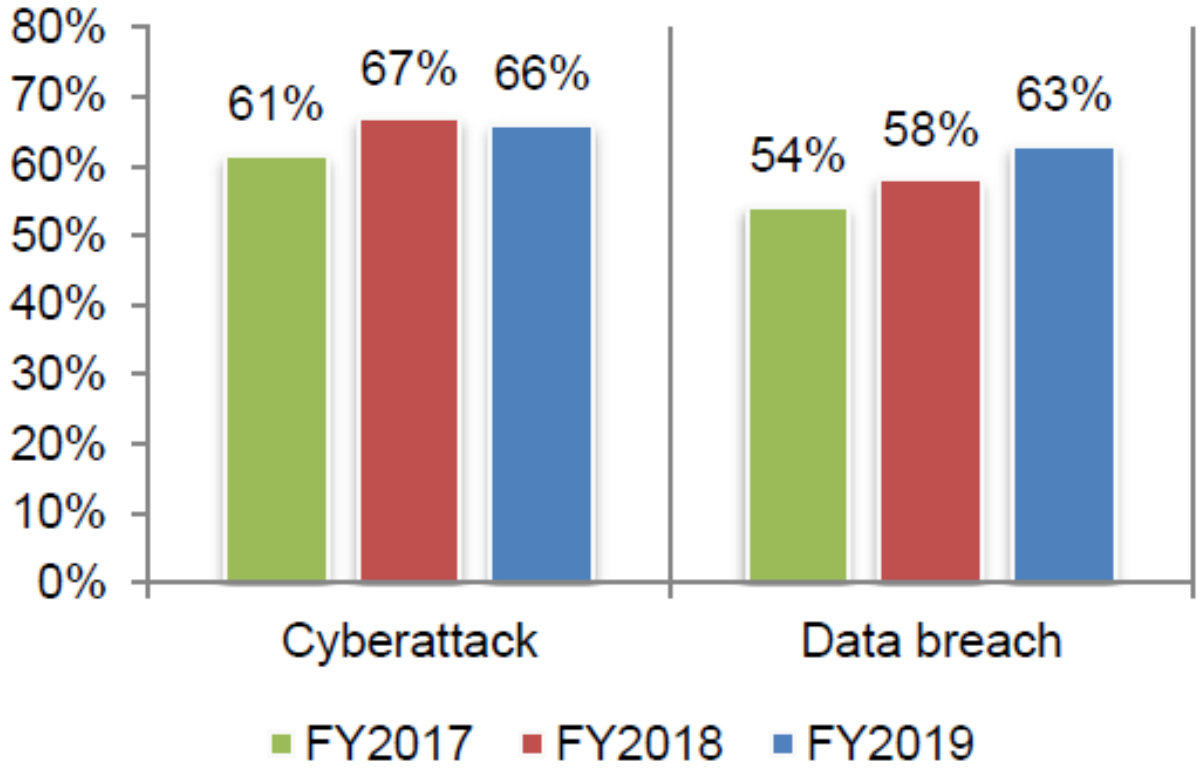


What are other commonalities?

Small Business with Cyberattacks

Figure 1. Our company experienced a cyberattack and data breach in the past 12 months

Yes responses



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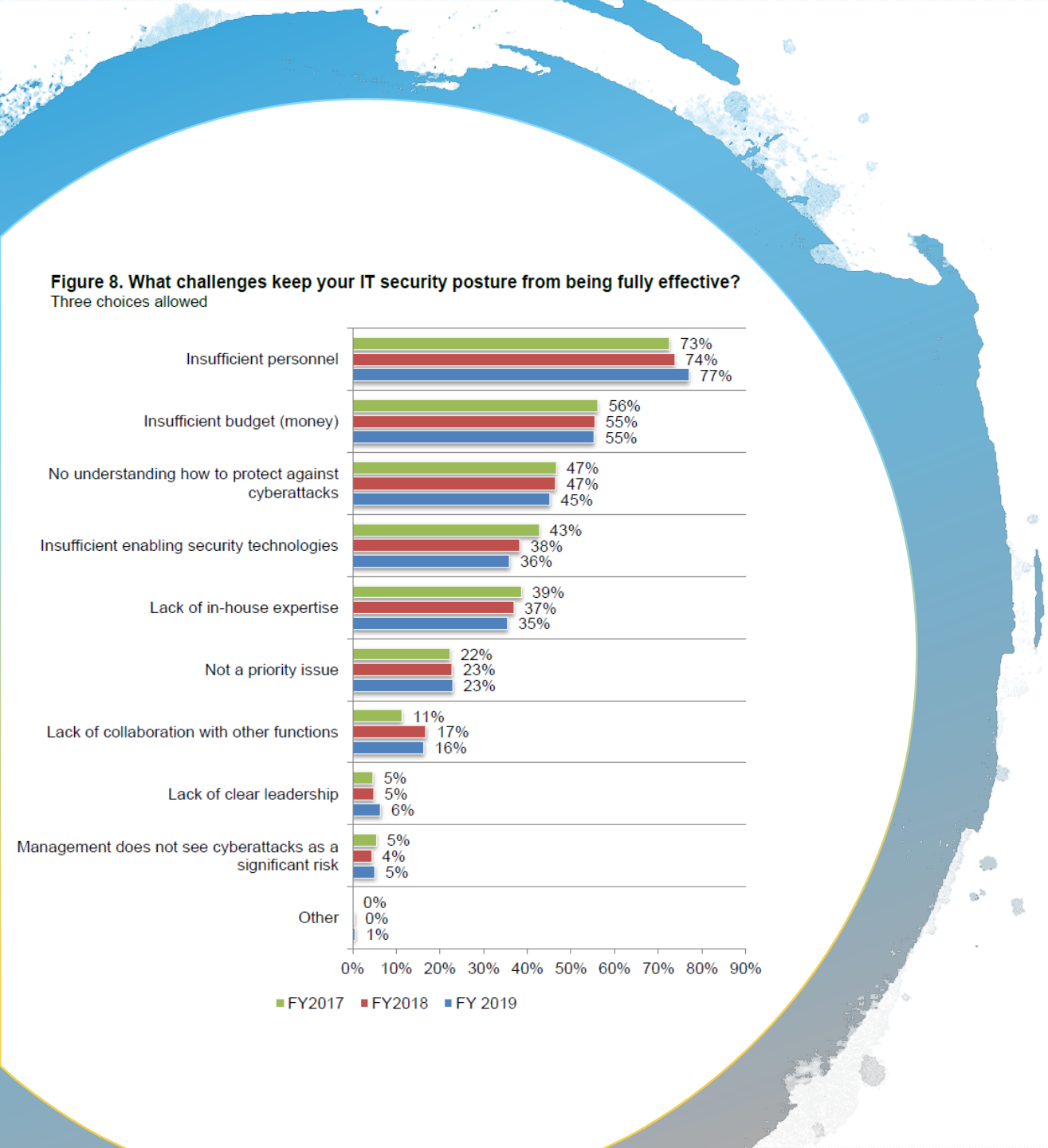

Why aren't small businesses better at cybersecurity?

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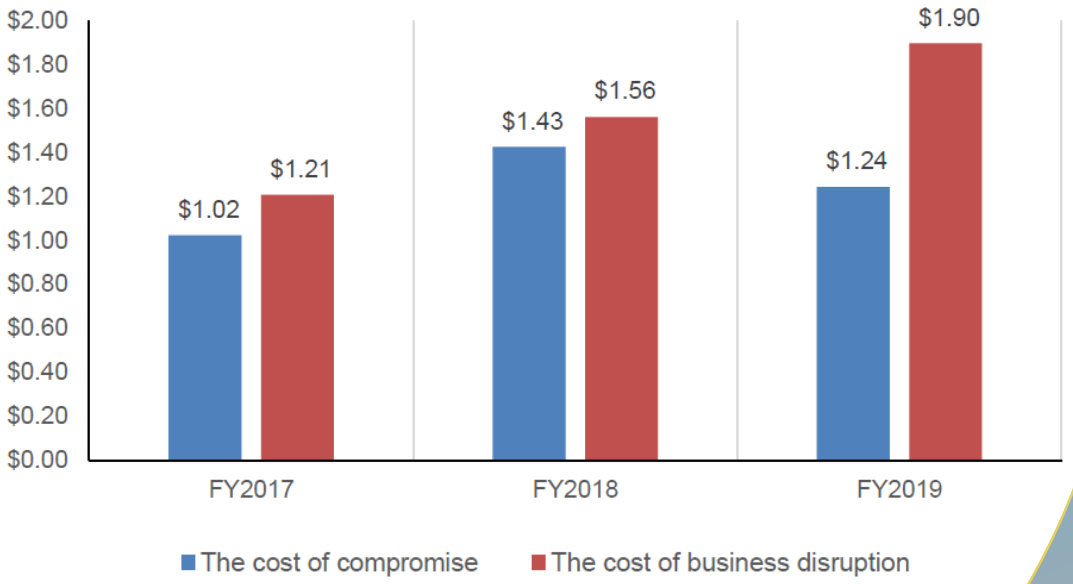
Figure 3. The average cost of compromise and business disruption over a 12-month period
US$ millions



Cost of a breach and business disruption?

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The Rush to Work From Home March 2020

What did we see happen in a matter of days?

Remote Access?

- Open up remote desktop services
- More VPN users
- Third-party tools (free?)

Who?

- Untrained users
- Employees out of their comfort zone

Devices?

- Grab any spare laptop
- Employee's home computers

Communication?

- Free video conferencing
- Personal email
- Personal file shares

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Concerns created by the rush

Remote Access?

What new vulnerabilities did you just open up for cyber criminals to access your network?

Who?

Are your users really prepared? Users are our number one vulnerability is cybersecurity.

Devices?

How many vulnerable and unpatched devices are processing your critical data?

Communication?

Where is your sensitive information going?

Cybersecurity During the Pandemic

Do it NOW

- **Remote access**
  Make sure NO open RDP, Secure all remote - MFA
- **Get devices updated**
  Swap out all old devices with patched and secure
- **Secure password policies**
  Review and implement secure password policies
- **External vulnerability scan**
  Have a professional do a quick external scan

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Online Meeting Tools

Popular tools and recent news

Cisco Webex

Cisco Webex Resources →

Zoom

Zoom Resources →

Microsoft Teams

Best Practices

- Use unique meeting ID’s for each meeting
- Require a password or ping to gain access to meetings
- Privately share meeting invitations.
- Consider requiring users to enable the “Lobby” or “Waiting room” functionality and affirming entry into a meeting.
- If your users are using client-applications versus the web interface, be sure the client applications are updated frequently to gain any security patches and enhancements that are released.

Cybersecurity Post-Pandemic

Key cybersecurity considerations

Do you have the right **protection tools**?

Have you had a third-party **Cyber assessment** conducted?

Recently?

Does your organization conduct regular **user awareness** training?

Would you know if your systems have been compromised? Do you have **monitoring tools**?

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Information Security Program

PEOPLE

TECHNOLOGY

PROCESSES

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People

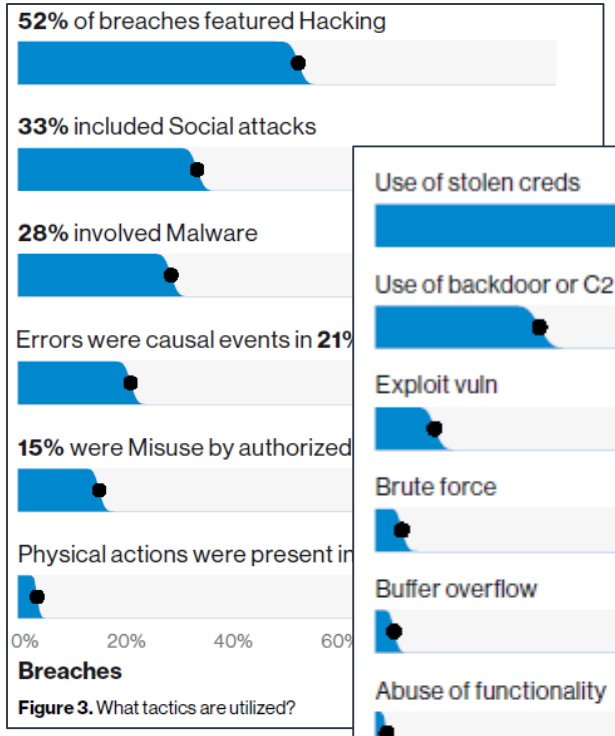

Figure 3. What tactics are utilized?

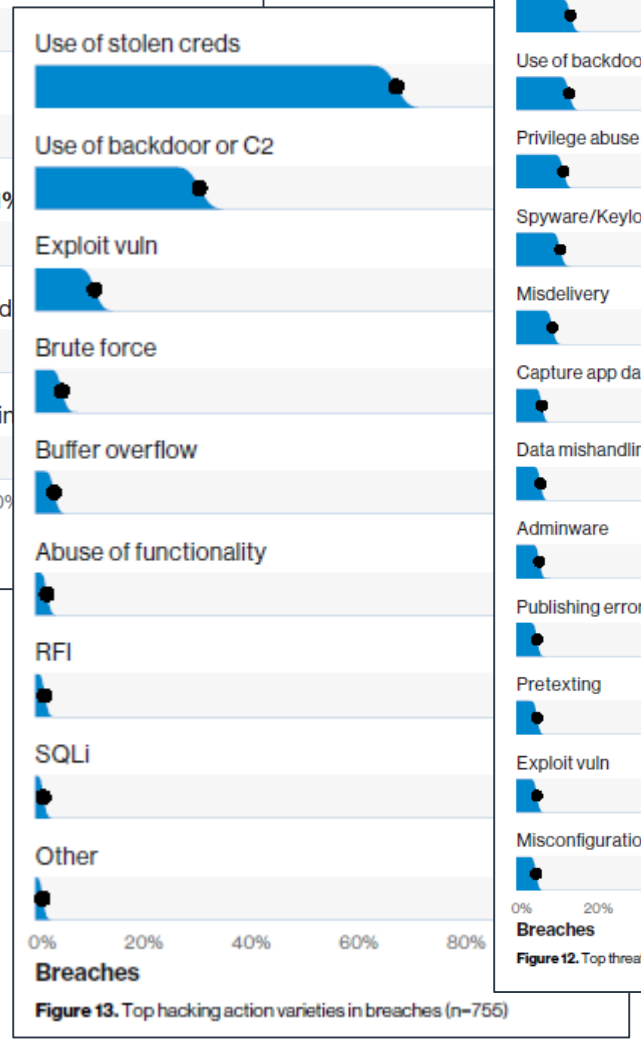

Figure 13. Top hacking action varieties in breaches (n=755)

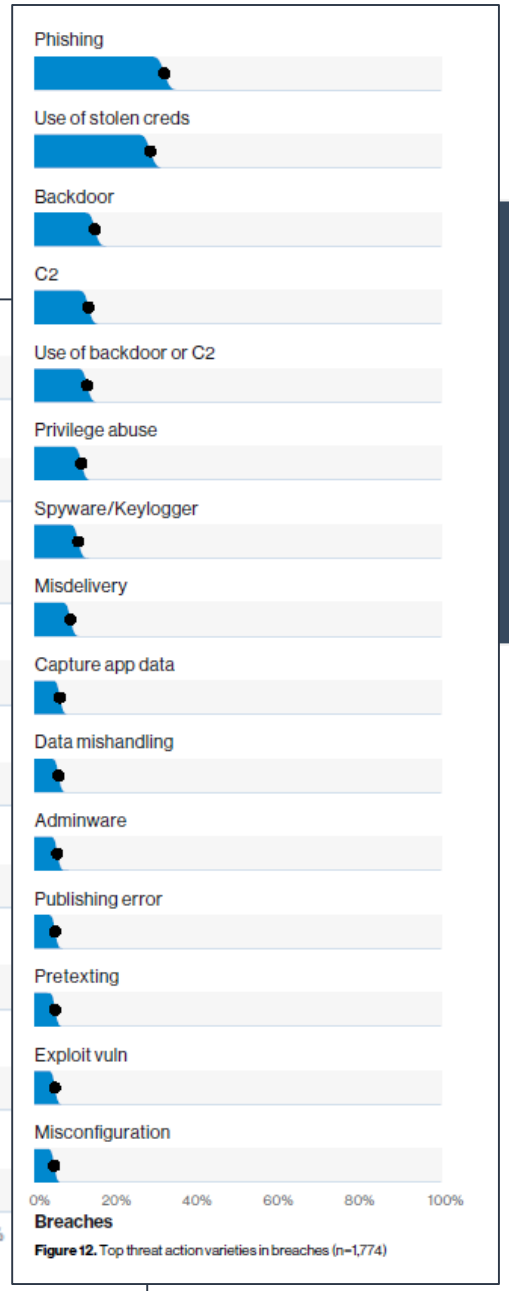

Figure 12. Top threat action varieties in breaches (n=1,774)

User Awareness

It is critical to train and equip our users on the frontlines.

KnowBe4
Human error. Conquered.

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verizon
2019 DBIR

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Processes & Controls

Risk Assessment

- Not just a technology exercise
- Must be continual

Monitoring & Response

- Tools to monitor and provide early detection
- Incident Response plans

Information Security Program

- Policies and Procedures
- User education
- Technology
- Roadmap for improvement

Business Continuity

- Documentation & planning
- Strong and reliable backups

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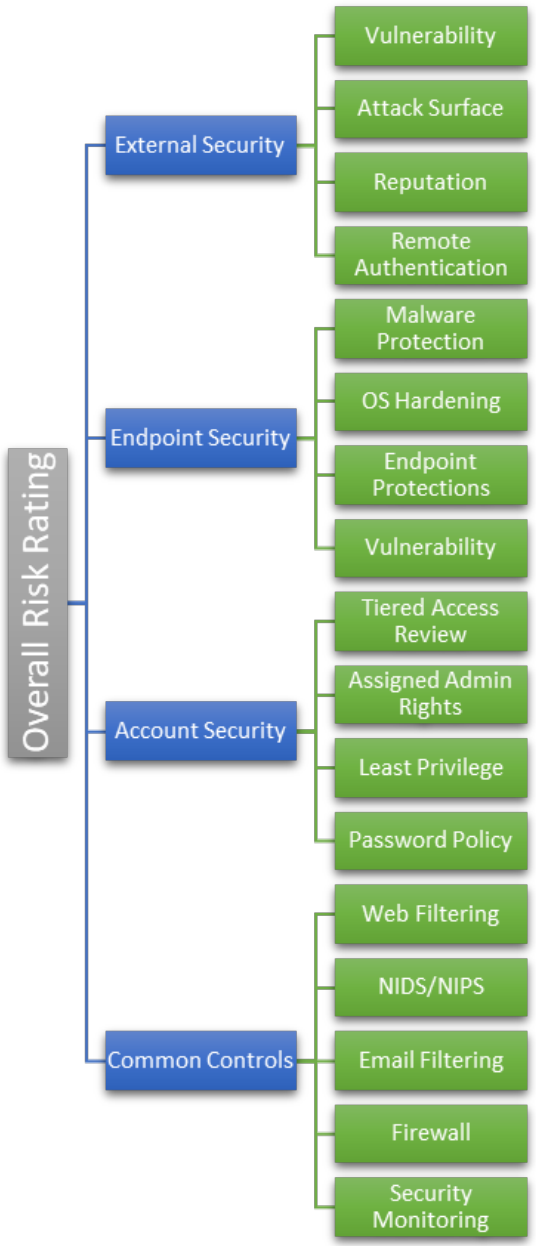
Assessment: Dean Dorton Cybersecurity Scorecard



External Security Review (EXT)

Risk level associated with your Internet facing assets. Threats include direct, technical attacks, and credential theft.

Account Security Review (ASR)

Risk level associated with active directory and assigned privileges. Threats are related to propagation and credential theft.

Overall Organizational Risk

Overall organization risk based upon an average of the four areas evaluated.

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Endpoint Security Review (ESR)

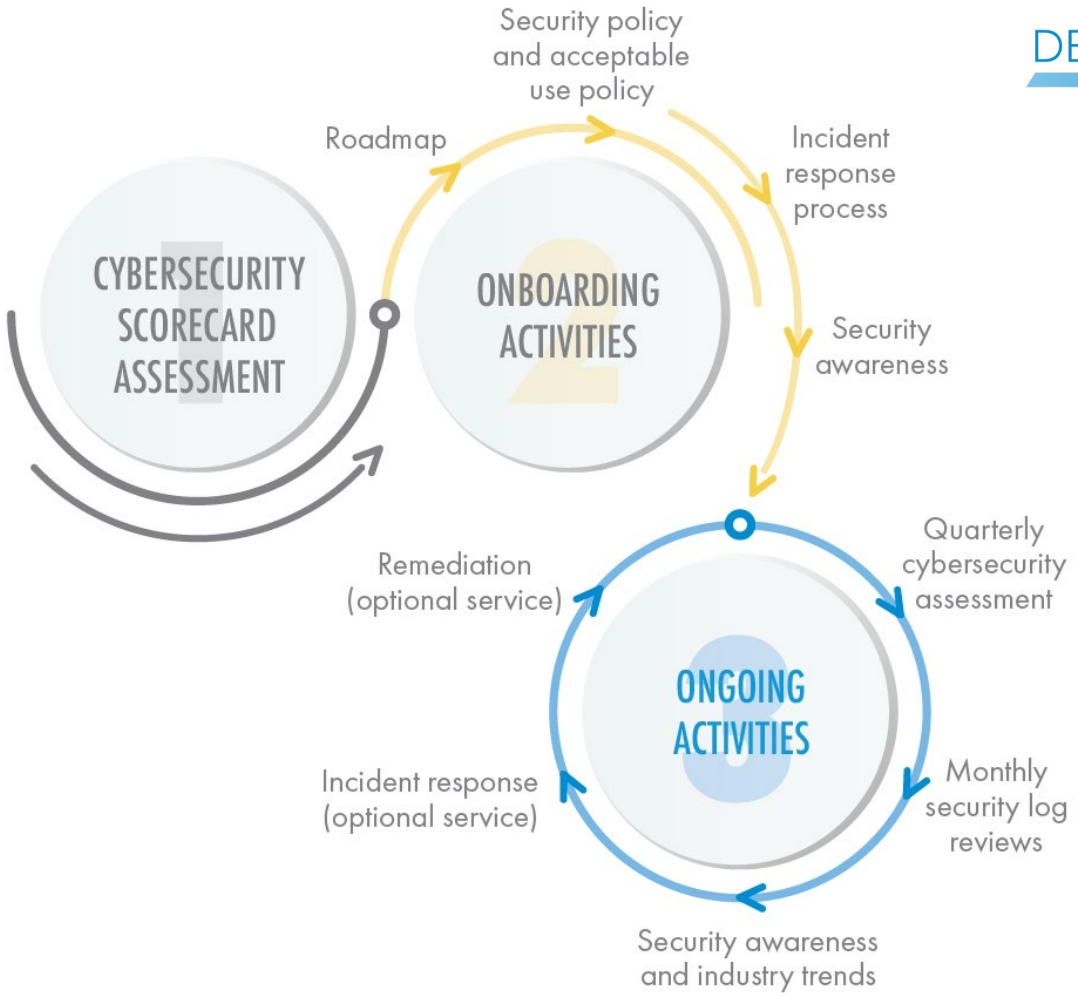
Risk level associated with your internal workstations and servers. Threats include exploitation and malware infection.

Common Controls Review (CCR)

Risk level associated with implementation of shared, organizational cyber-security controls

Security Lifecycles

Small Business Model



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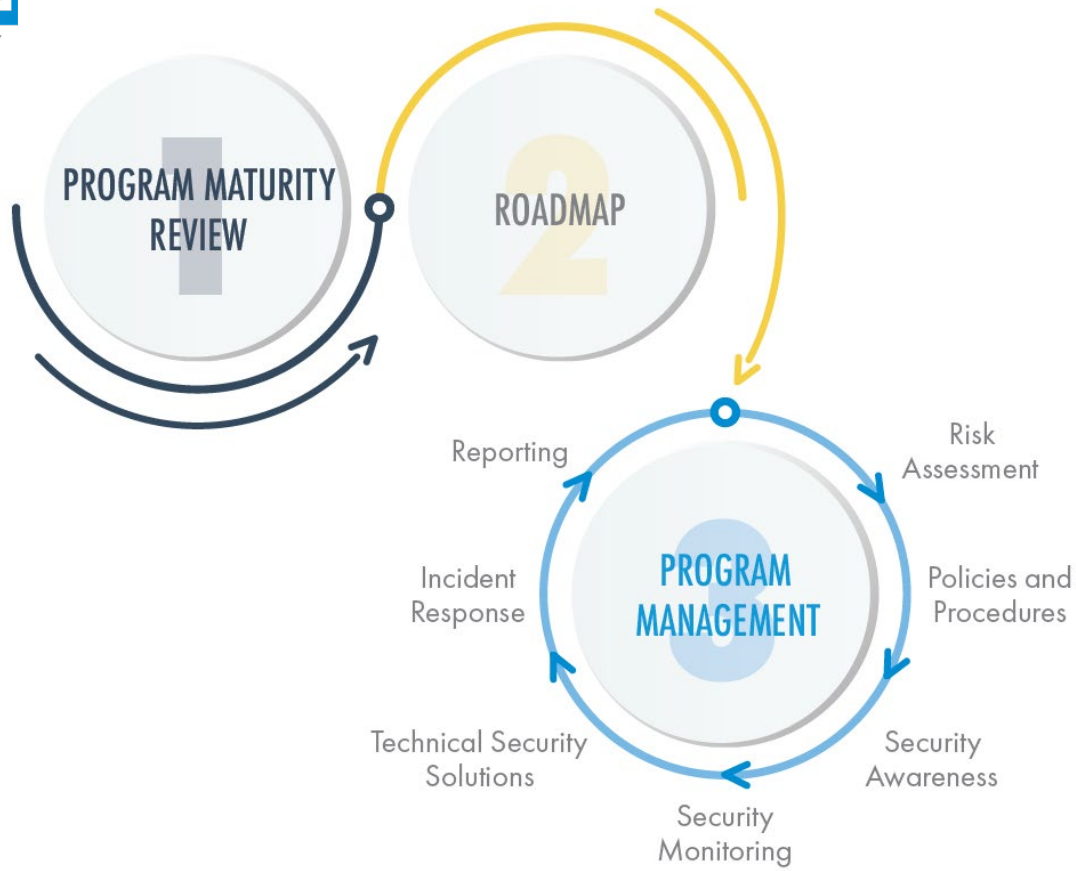
Large to Medium Model



Technology

MFA

Multi-factor Authentication

Next-Gen Anti-virus

Advanced Web Filter

Advanced Email Protection

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Other considerations

Office 365

Have someone evaluate your **Office 365 security** and controls

Passwords

- Deploy a **password filter**
- Require strong passwords
- Minimum length 12
- Age: 180 days

Remote Workforce

- Should all users have a laptop?
- Virtual Desktop Solutions
- Cloud Solutions

Backups

- Multiple layers
- Air gap
- **Test** regularly

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The one thing…

MFA

Multi-factor Authentication

DUO

okta IDENTITY CLOUD

RSA SECURITY™

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Resources

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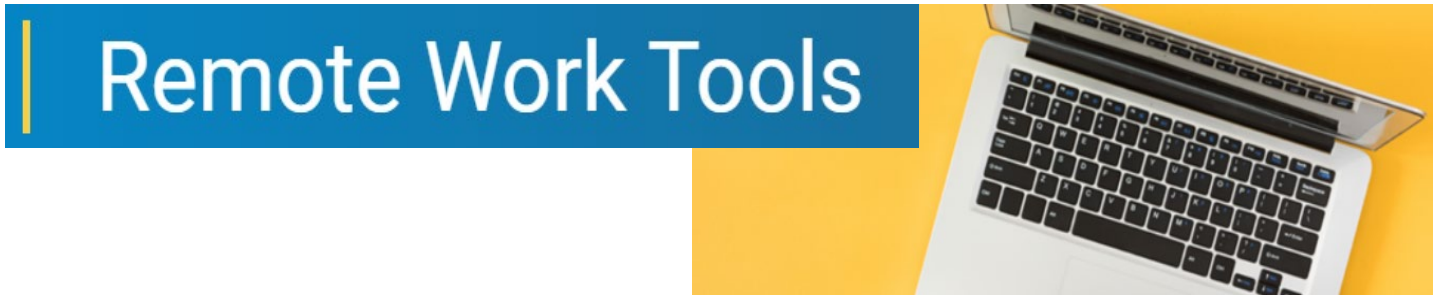

deandorton.com/remote-work

deandorton.com/cybersecurity

What questions do you have?

Use the Chat box now

Thank you

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