



CITY OF LITTLETON CYBER SECURITY FO BUSINESSES

Why Endpoint Security Matters,
Simple Cost-Effective Solutions,
Cyber Security Best Practices

AGENDA

Here's what we will discuss during our meeting today:

1. Define the Controls
2. Educate Employees
3. Password Management
4. Access Management
5. Application Management
6. Patching
7. Endpoint Security
8. VPN & Secure Communications
9. Backup & Recovery
10. Wireless Networks
11. Dealing with Phishing



DEFINING THE CONTROLS



The goal when creating an organizational information security policy is to provide relevant direction and value to the individuals within an organization with regard to security.

EXAMPLE POLICY & PROCEDURES

Define An Infosec Program

"Company X will publish an information security program to all staff. This program will define acceptable usage"



Define Infosec Procedures

"Company X requires all staff to use company provided electronic devices for business purposes only"

Define A Password Policy

"Company X staff are required to use strong authentication when accessing business resources"



Define A Password Procedure

"All Employees must use MFA when available. Else a unique password of 12 characters must be used. This password must have special characters and numbers"

Define A Data Policy

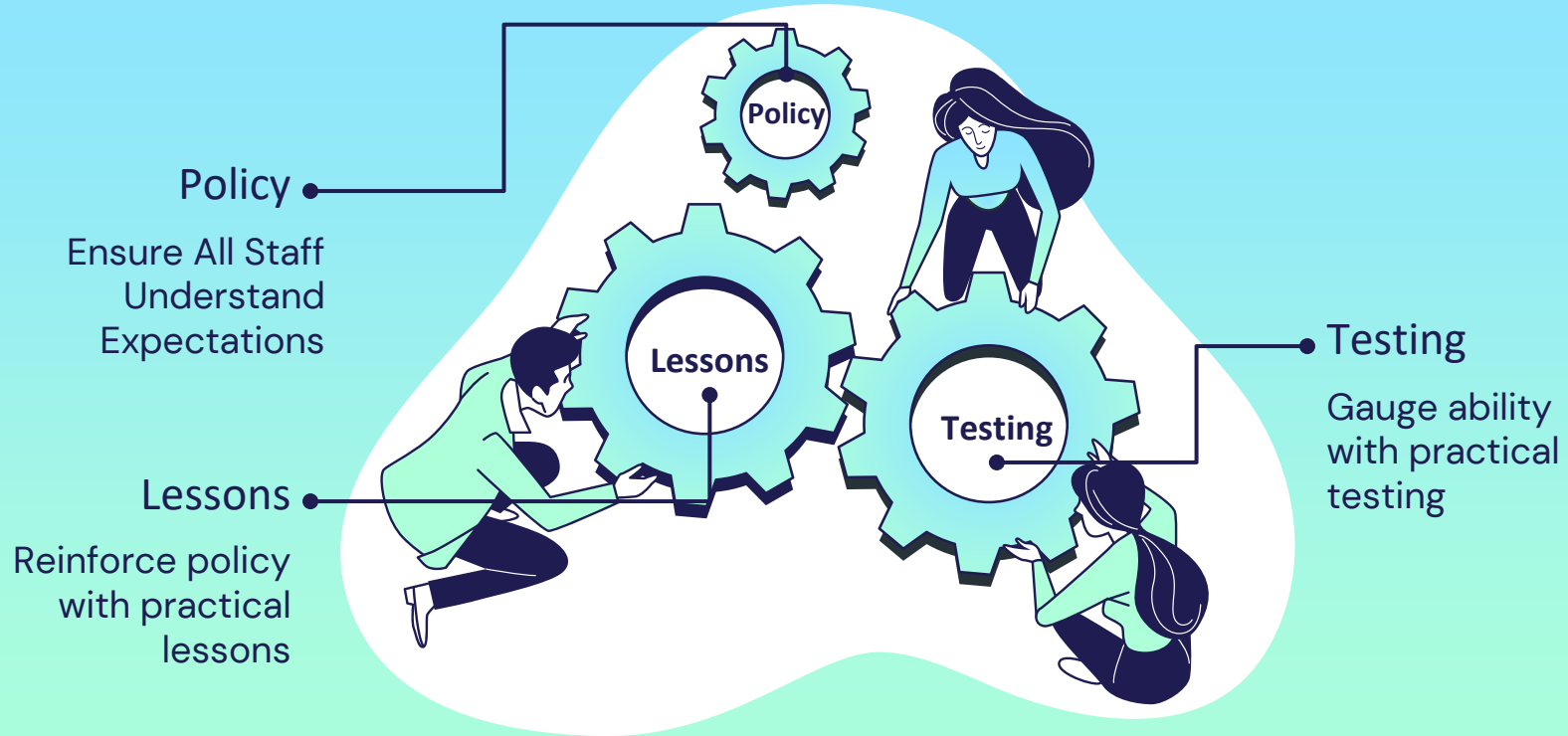
"All data used in day-to-day operations for Company X should be considered confidential and property of Company X"



Define A Data Procedure

"A change request must be approved by management before Company X data can be shared with 3rd parties"

EDUCATING EMPLOYEES



ABOUT THAT PASSWORD



Password Mis-Management

The average Person has to login to 170+ websites but only has 3 to 19 passwords. This means passwords of often reused. Often the passwords are simple to make it easier to remember.



Password Management

Even simple passwords can be made complex by increasing the number or characters.

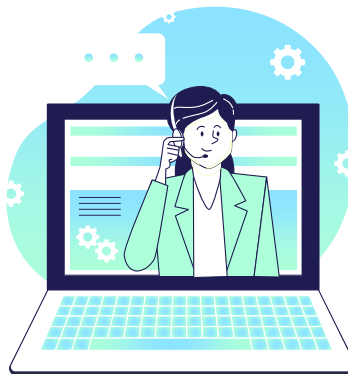
Ex: **'Blue1-Red2-Bird3'** vs **'d\$!1B03'**

8652 centuries vs 5 seconds

ACCESS MANAGEMENT

Less is More

Look at each role and only provide the required access.



APPLICATION MANAGEMENT



Inventory

Keep an inventory of what applications you use within your day-to-day business. This should include where applications are installed.

Versions Matter

Software bugs are released on a daily basis. The only way to verify if you are affected is to reference the versions of the software you use.

PATCHING



ENDPOINT SECURITY

Identify your endpoints.
Monitor your endpoints.
Update your endpoints.
Archive your endpoint data.
Backup your endpoint configs



VPN

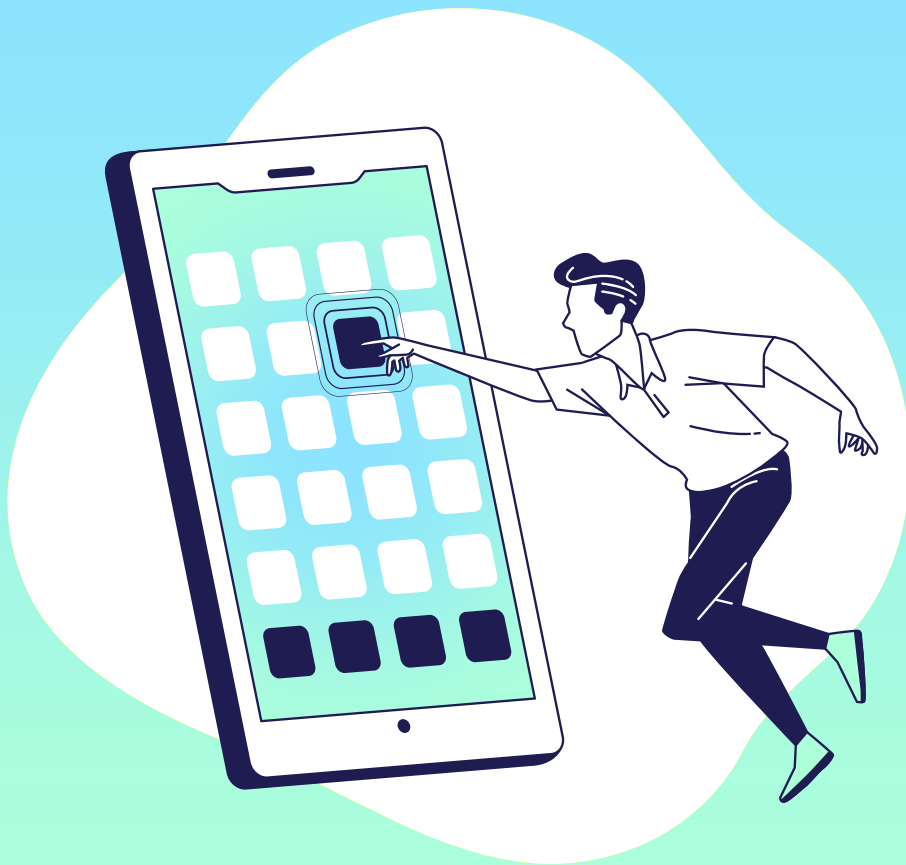
Protect your internal resources.
Protect your external resources.



BACKUP & RECOVERY

Daily	Weekly	Monthly	Annualy
Documents	Domain Data	Workstation	Critical Data
New Data	Document Repositories	Servers	Network Settings
Databases	Databases	Databases	Databases





WIRELESS

Hotspot Protections
Device Protections

PHISHING

Pro Tip:
Make Sure Your Business
Outreach Doesn't Look
Like Spam

95%

Cybersecurity Attacks



Involved a human
element

BEC

Business E-Mail Compromise
Losses exceeded all other cyber
security losses combined



MALVERTISEMENT



EMAIL ATTACKS



SMS



BUDGET CYBER-SECURITY SOLUTIONS



ANTI-MALWARE

Regular Updates

Unable to Disable

[AVAST](#)

AUTHENTICATION

Simple to Manage

Simple to Revoke

[FreeRADIUS](#)

SEIM

Threat Updates

Alerting Capabilities

[AlienVault](#)

DNS Filtering

Updated Threat Lists

Easy to Configure

[DNSFilter.com](#)

ONLINE SCANNERS

Malware Analysis

Metric Based Grades

[VirusTotal](#)

NETWORK SCANNERS

Intelligent Scanning

Output Formats

[OpenVAS](#) & [NMAP](#)

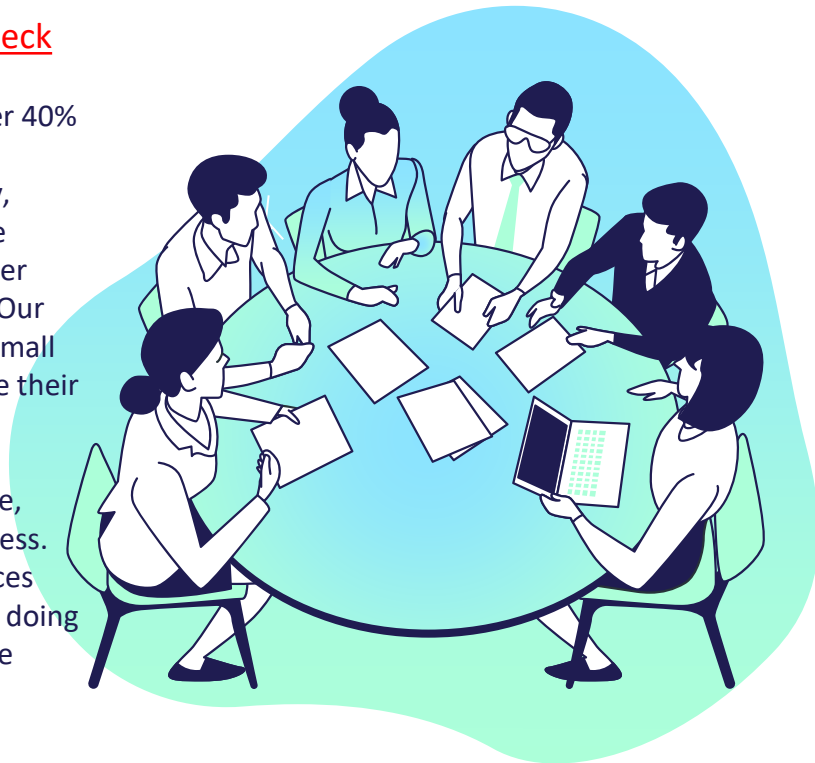
NEXT STEPS



<https://www.safeandsecureonline.org/s/cyberhealthcheck>

As an integral part of the global economy, it's estimated that over 40% of small businesses have experienced a cyber-attack. If that's happened to you, you know how devastating it can be. Fortunately, there are qualified professionals volunteering to help. ISC2 is the world's largest association of cybersecurity professionals with over 200,000 certification holding members in all parts of the world. Our Cybersecurity Health Check pairs ISC2 volunteers with qualified small businesses to help the small businesses understand and minimize their cybersecurity risk.

The Cybersecurity Health Check will take a few hours of your time, both on your own and meeting with the volunteer or small business. The Health Check provides a cybersecurity checklist showing places where small businesses can mitigate their risk and what they are doing well. This program is completely free to you. Our volunteers give their time and skills to help make this a safer cyber world!



THANKS!

Do you have any questions?

<https://www.littletongov.org>

<https://www.safeandsecureonline.org/s/cyberhealthcheck>



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