

Cyber security Where is it heading?



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IT strategy and support for ambitious businesses

Chalkline



London



30+ Team
2 Office Dogs



120+ Clients
2,500+ Users
10+ countries

 **Microsoft**
Solutions Partner
Modern Work

Microsoft Solutions
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Today's Agenda

1
What is
Cyber Security



2
Through
the years



3
If you don't
already have
this



4
You should
have this



5
You should
be talking
about this





What is Cyber Security?



How individuals and organisations reduce the risk of cyber attacks. Cyber security's core function is to protect the IT systems we use.



What's our objective?



Email



Internet



Phone



Laptop



MDR



IDS/IPS



Anti-Spam



Firewall



Ringfencing Policies



Elevation Control



Antivirus



Anti-Phishing



Storage Control



Multi-Factor Authentication



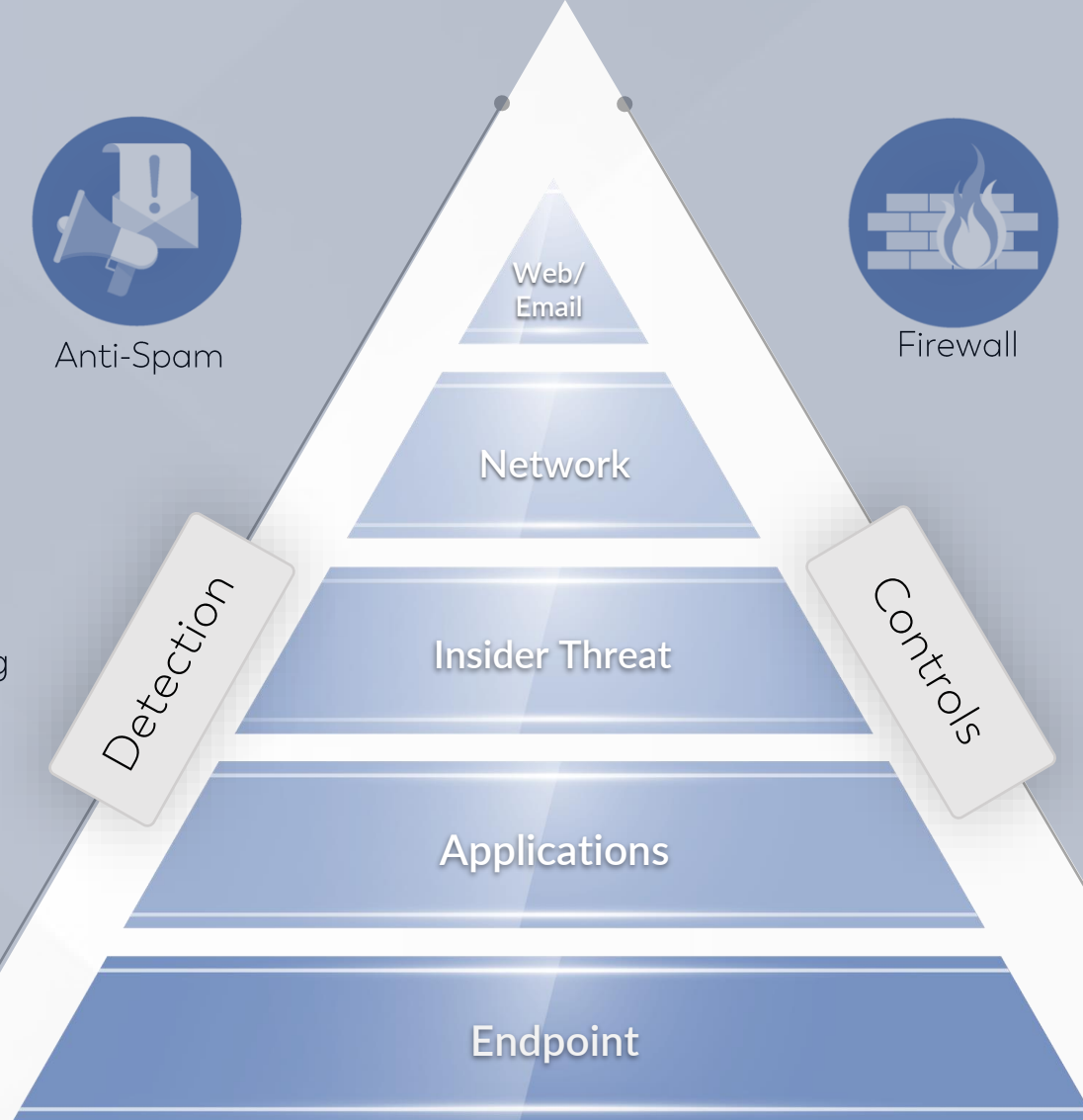
Threat Hunting



EDR



Application Allowlisting



Web/
Email

Network

Insider Threat

Applications

Endpoint

Detection

Controls

Human



Why Security Matters

With the rise in sophisticated cybersecurity attacks, security continues to be one of the top challenges of our digital age.

Today, anything less than comprehensive security is no security at all.

84%

In the past year, 84% of organisations reported an Identity-related attack

(Identity Defined Alliance, 2022)

1,070%

Ransomware attacks spiked 1,070% from June 2020 to June 2021

(Microsoft Security, 2022)

\$1.07M

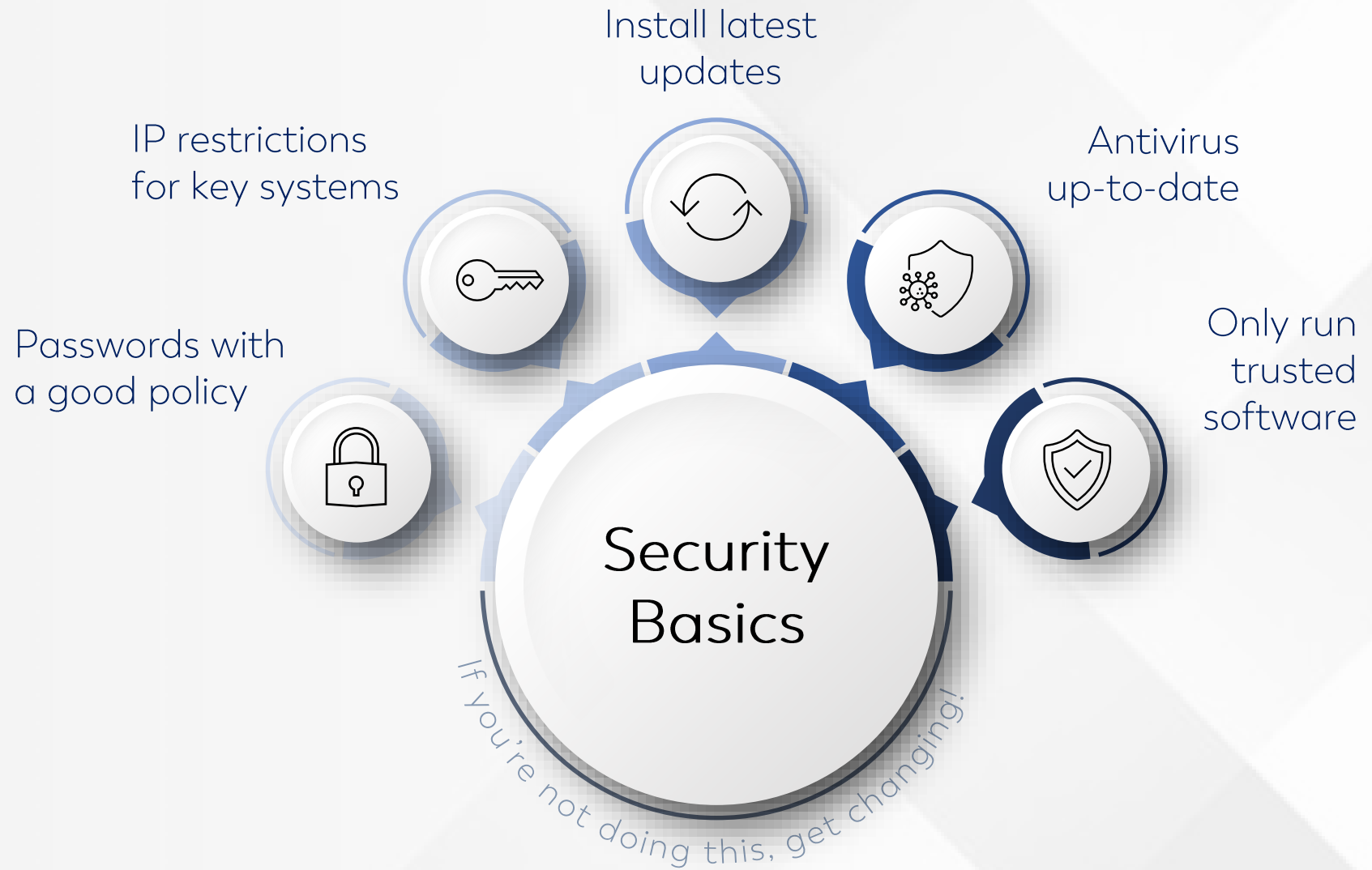
When remote work is a factor, security breaches cost \$1.07M more

(IBM Security, 2022)





Security Basics



Modern Cyber Security Threats & their Impact

Targeting: Systems

Ransomware

Data leakage and loss of data



Keylogger

Data leakage



Poor System Patching

Possibility of further attacks



Targeting: People & Process

Phishing

Data leakage and loss of data



Spear Phishing & Whaling

Financial loss



Password Attacks

Possibility of further attacks

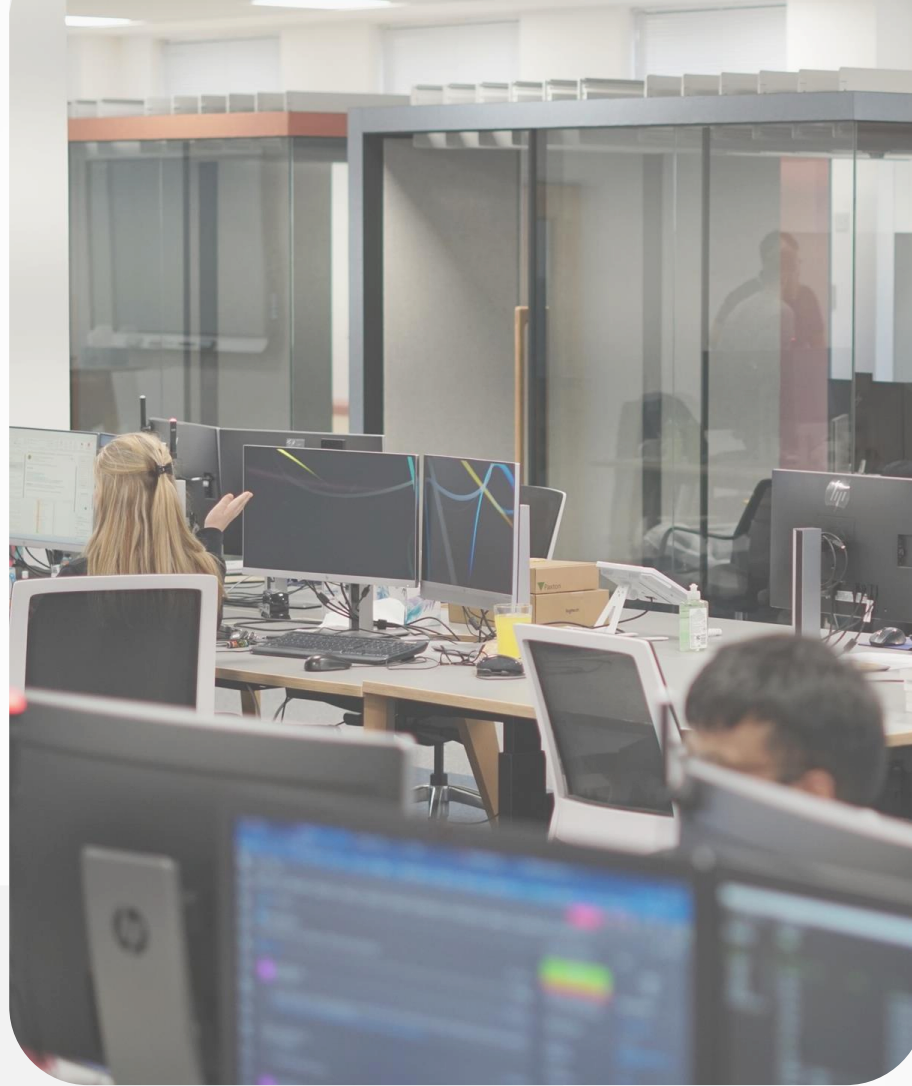


Zero Trust Security Model



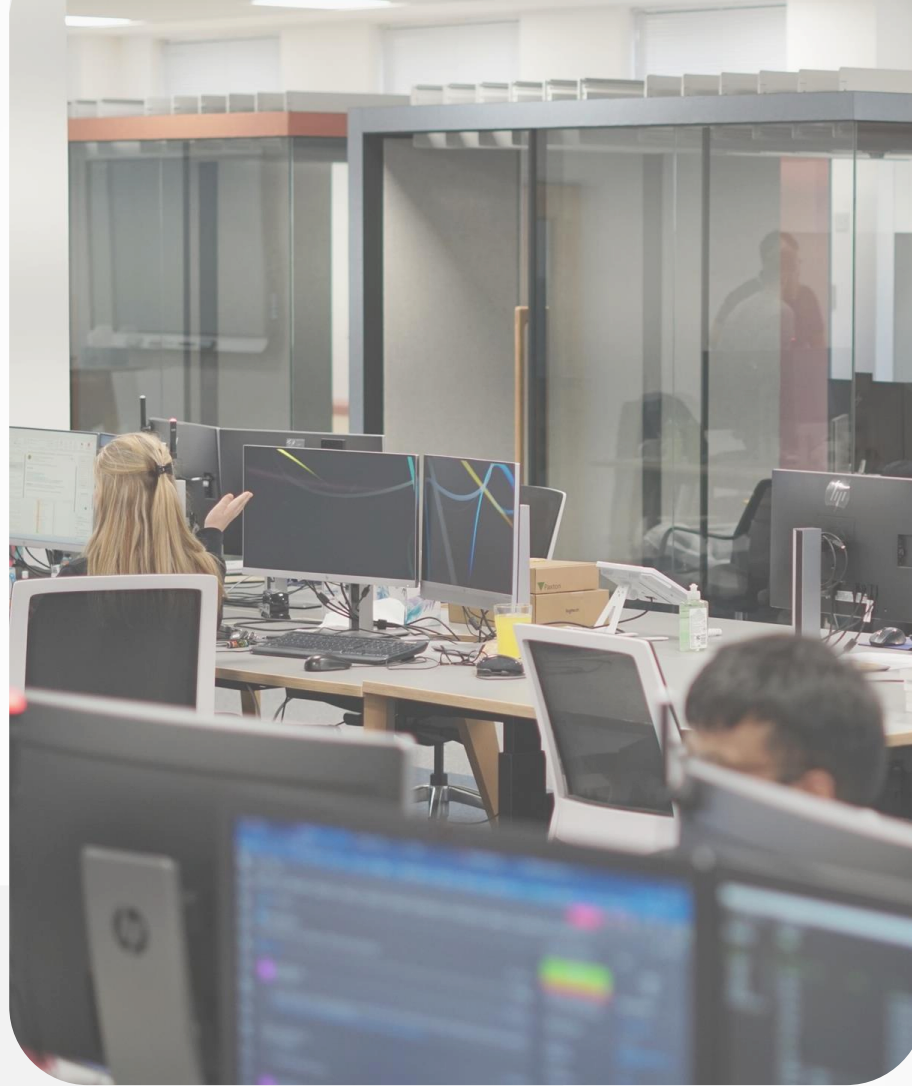


Allowlisting



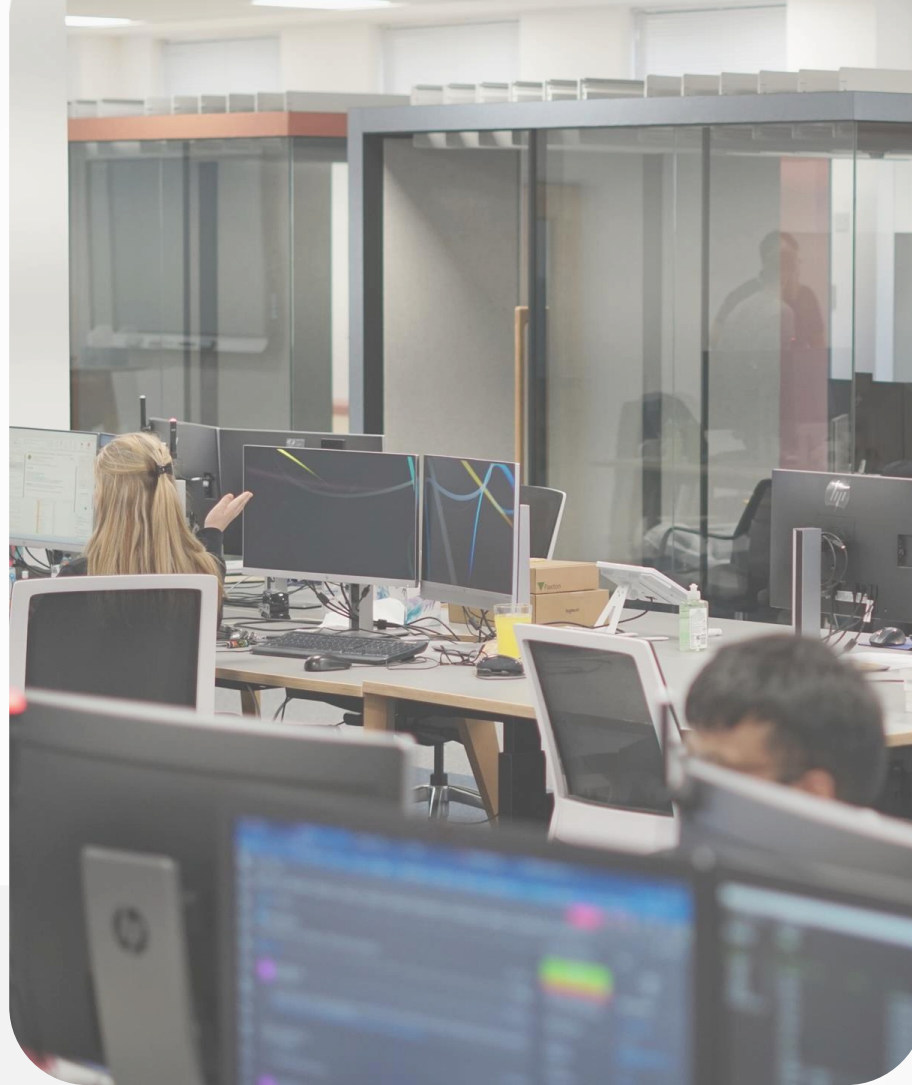


Ringfence



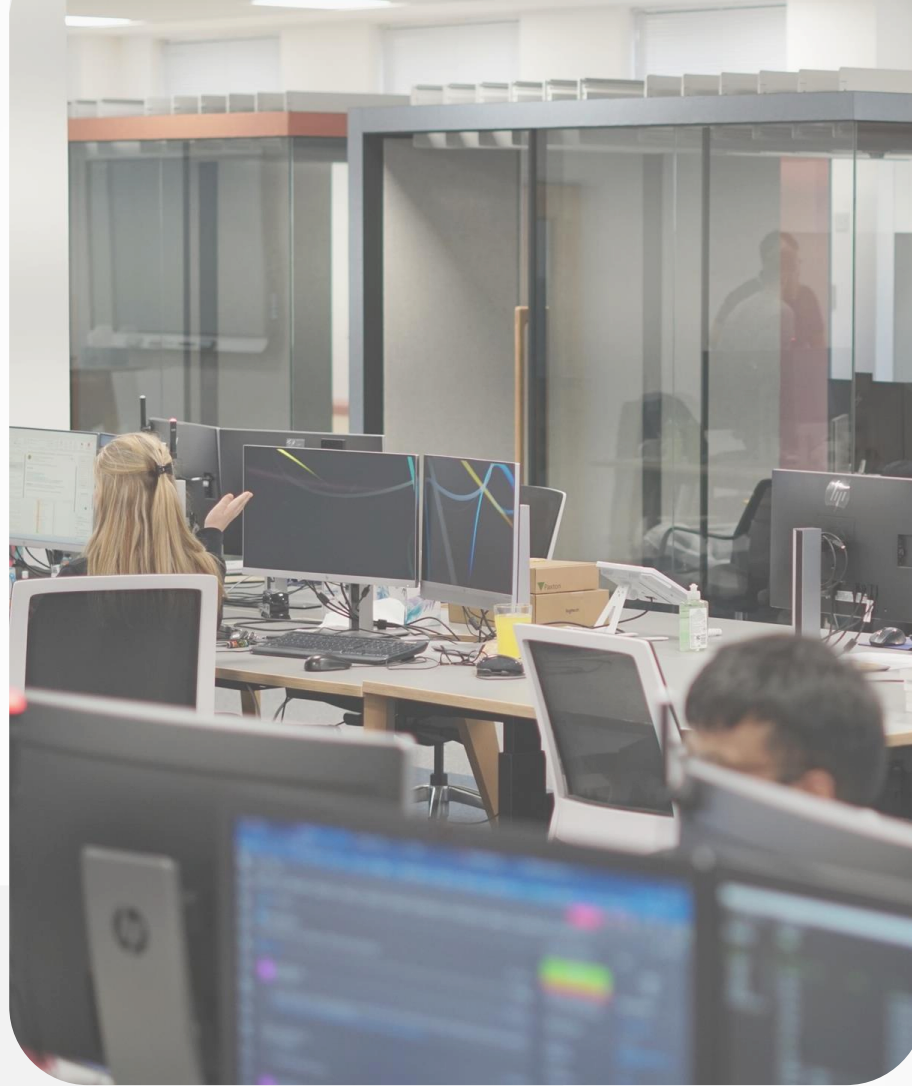


Elevation Control



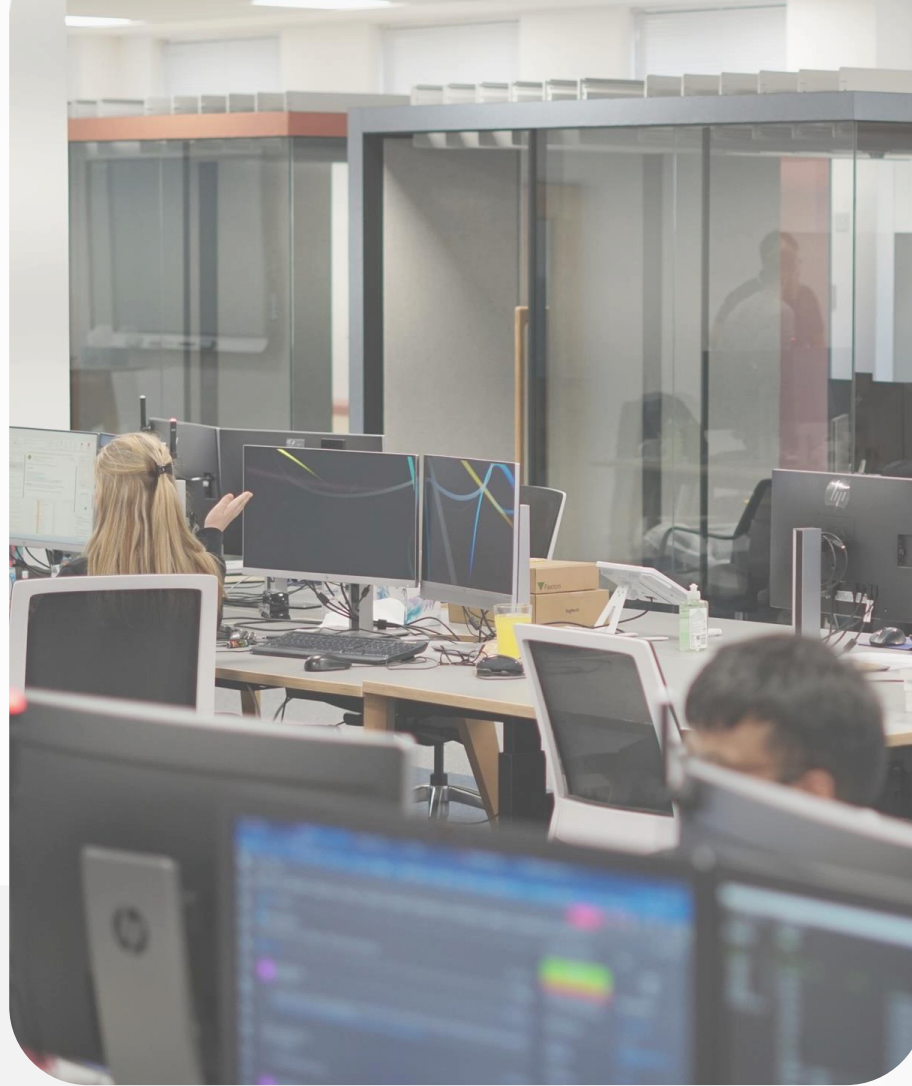


Storage Control





Network Access Control





Multi-Factor Authentication

Multi-Factor Authentication requires users to provide two or more verification factors to log in.



Something you
know
(e.g. password)



Something you
have
(e.g. smartphone)



Something you
are
(e.g. fingerprint)

Approve sign-in request

Open your Authenticator app, and enter the number shown to sign in.

95

Are you trying to sign in?

Chalkline Solutions Limited
@chalkline.tech

App
Office 365 Exchange Online

Location
England, United Kingdom



Enter the number shown to sign in.

Enter number here

YES

NO, IT'S NOT ME

I CAN'T SEE THE NUMBER

User Training and Phishing Threats

Make sure people understand security threats

User Training and Phishing Campaigns

Policies and procedures in place

Regular phishing emails to test users



Password Manager

Ideally you should be using Single-Sign On for your corporate resources, but what about when you need to create accounts?



Encrypted Vault for every user



Built in password generator



Password reviews



Single sign on to access portal



Share passwords with your team



Avoids siloed information

Cyber Essentials





Implement a strong approach to security





Have you got a plan?



Cyber Insurance

(and keep their number in speed dial!)



Comms Plan

How would you communicate to your users/clients without your usual systems?



Backups

Offline backups and immutable storage



Test your plan!

Tabletop exercises & DR simulation

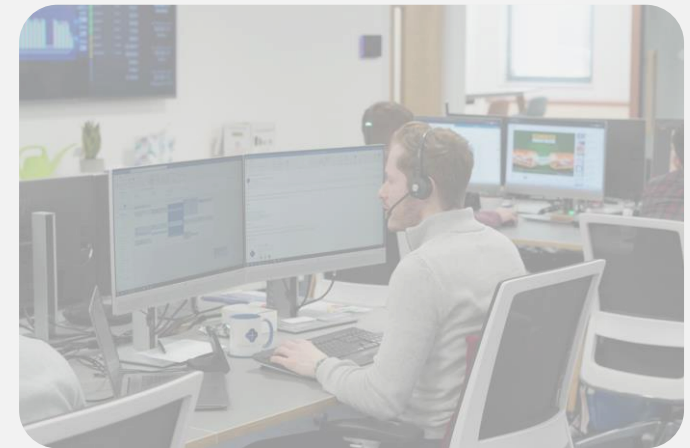


Summary

01 The landscape of Cyber Security

02 The reality of security

03 Ways in which you can protect yourself





Thank you for your time



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