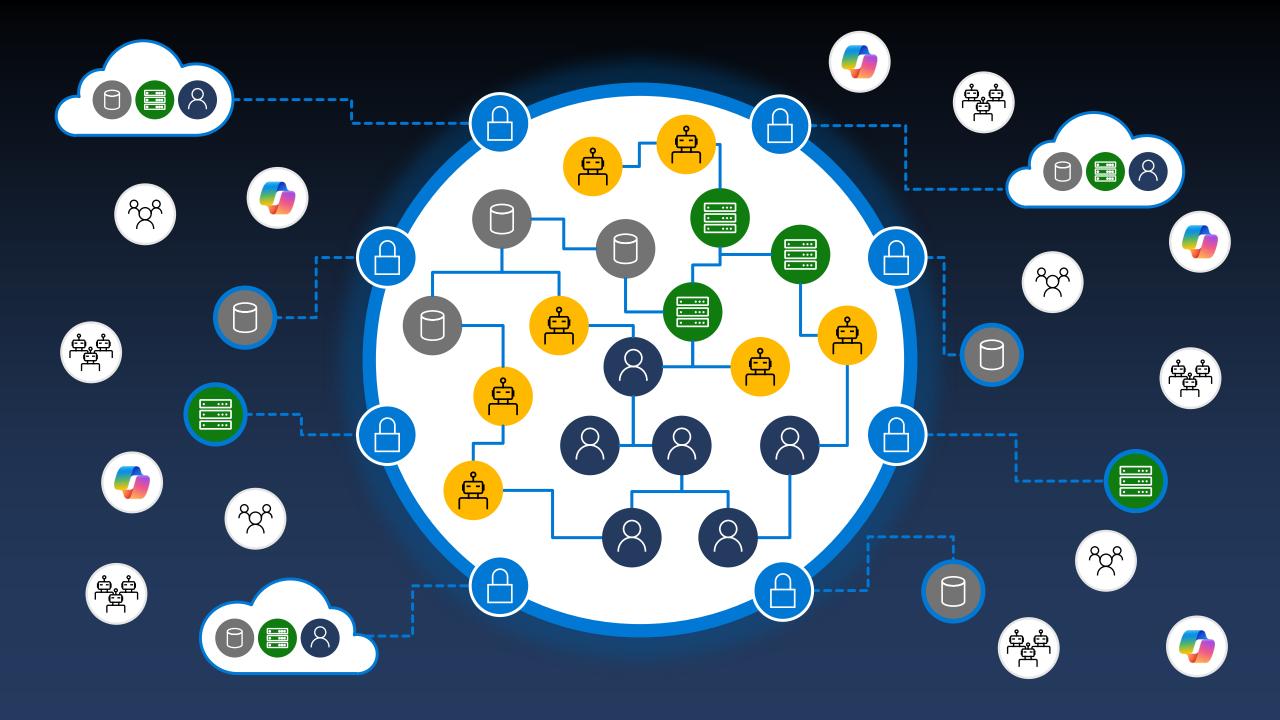
# Entra as the foundation of security

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Solution Architect and Technology

Evangelist





#### Trends in 2024



Proliferation of identities

>300B

passwords in use by humans and machines



Employees access more than

1,500

applications in the average enterprise



Increase in cybercrime

4,000

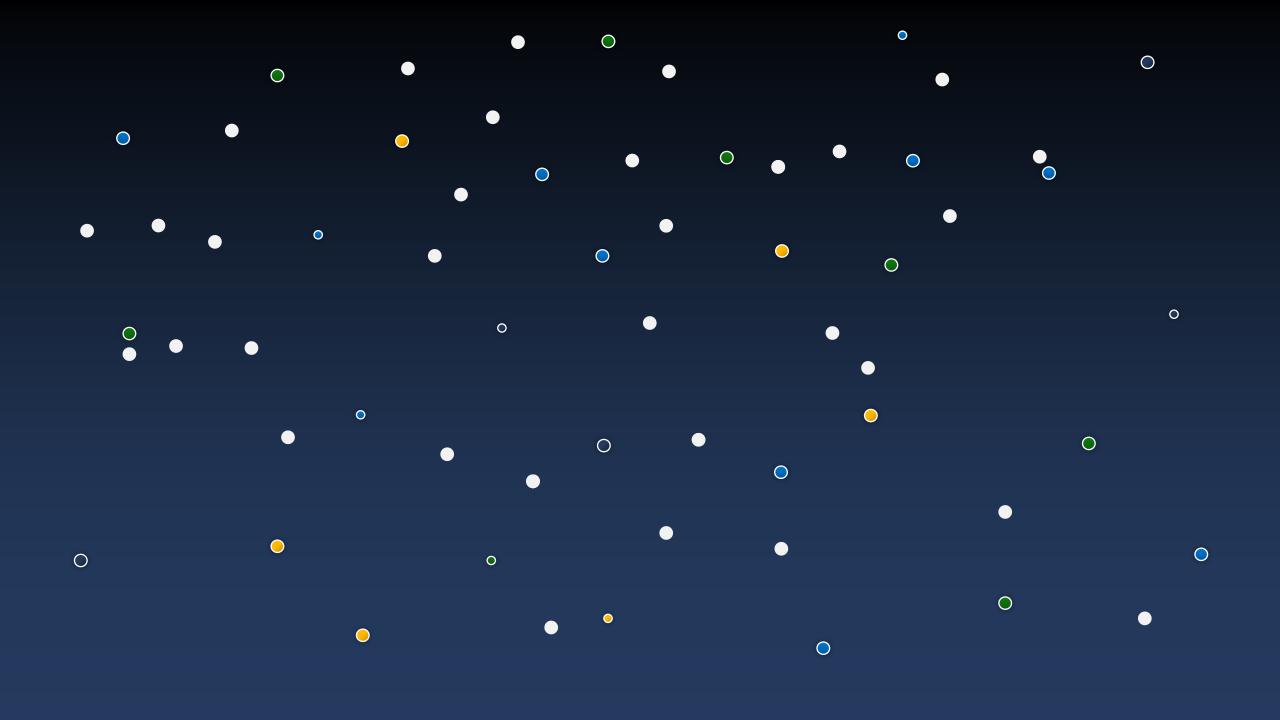
password attacks per second in 2023



Token Replay attacks

**2**x

increase since 2023





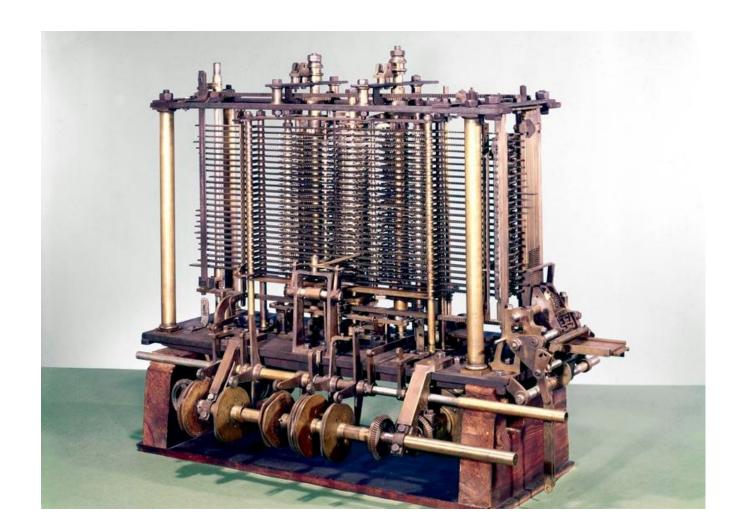
Secure access for any identity, from anywhere, to any app, AI, or resource

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- → Changes in technology have changed the way we work
- → Changes in society have changed the way we work
- → Can security keep up with the devices?

#### How have things changed

- → 1837
- → Charles Babbage
- → Analytical Engine

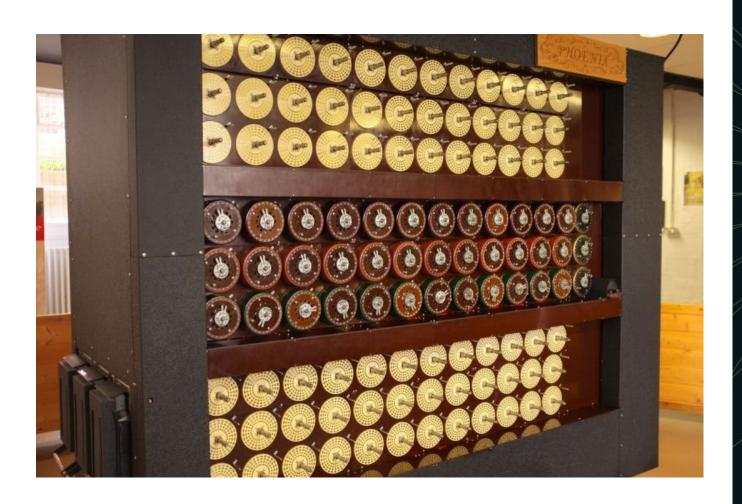


#### How have things changed

→ 1940

 $\rightarrow$  Alan Turing

 $\rightarrow$  Bombe



#### How things have changed

- $\rightarrow$  1980s
- → Apple ][
- → IBM PC
- ightarrow Apple Lisa





→ Vines, InfoShare, NetWare, PC-LAN



### Security

→ How it was



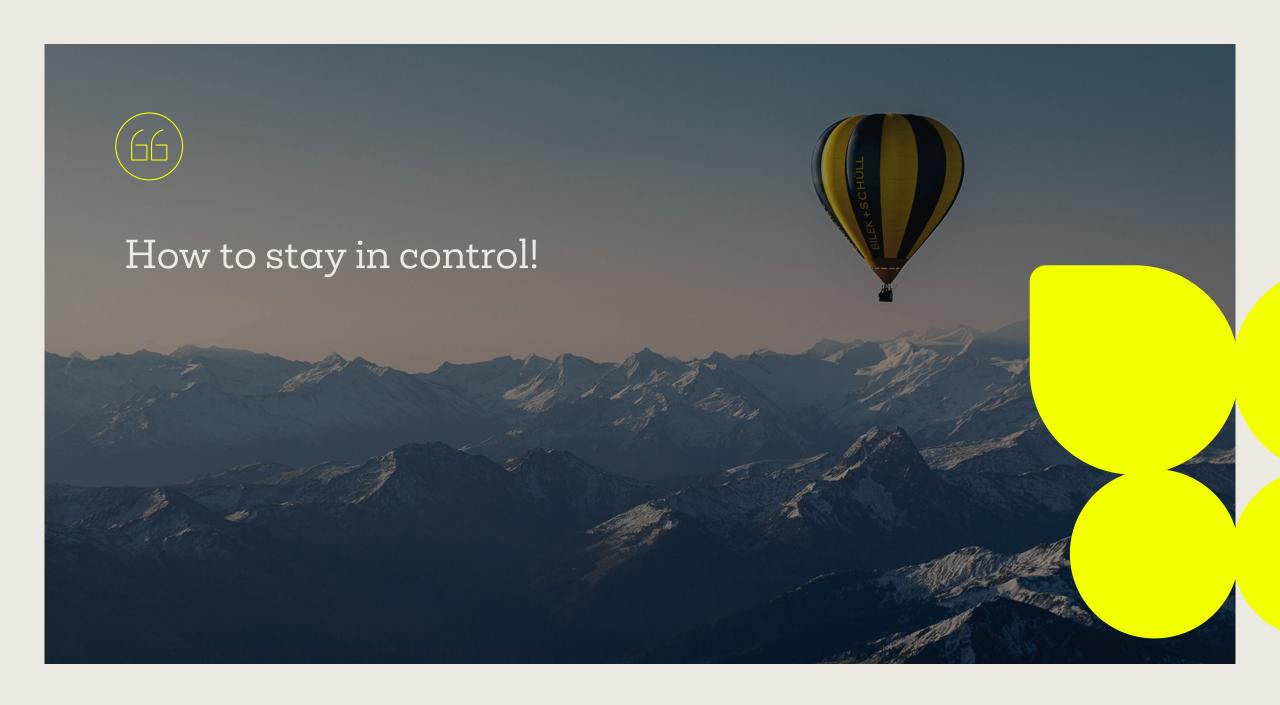
- ightarrow Dial up
- $\rightarrow$  2,400 baud
  - ightarrow 2,400 bits per second





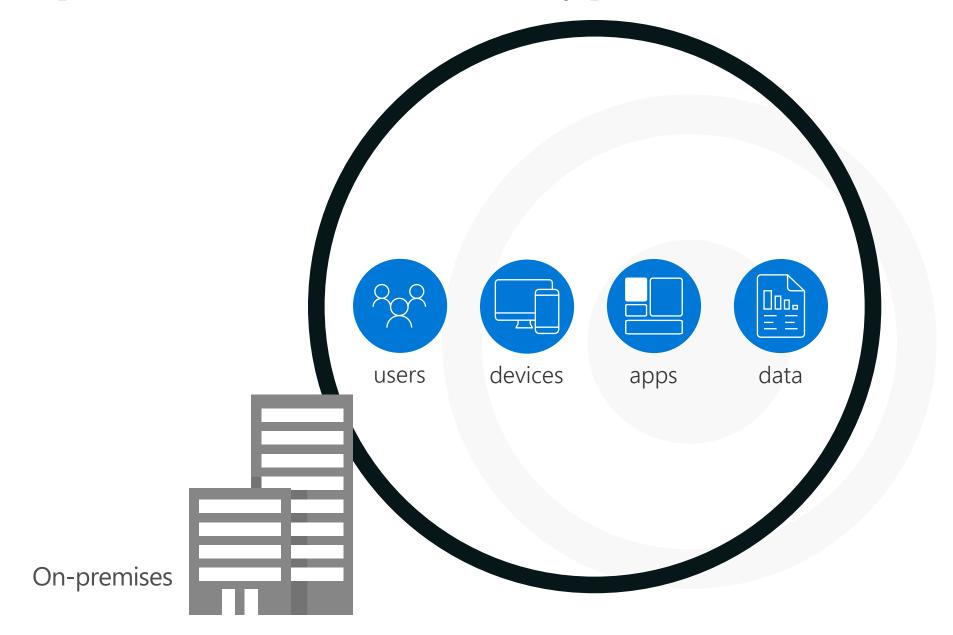
#### The rise of the Internet

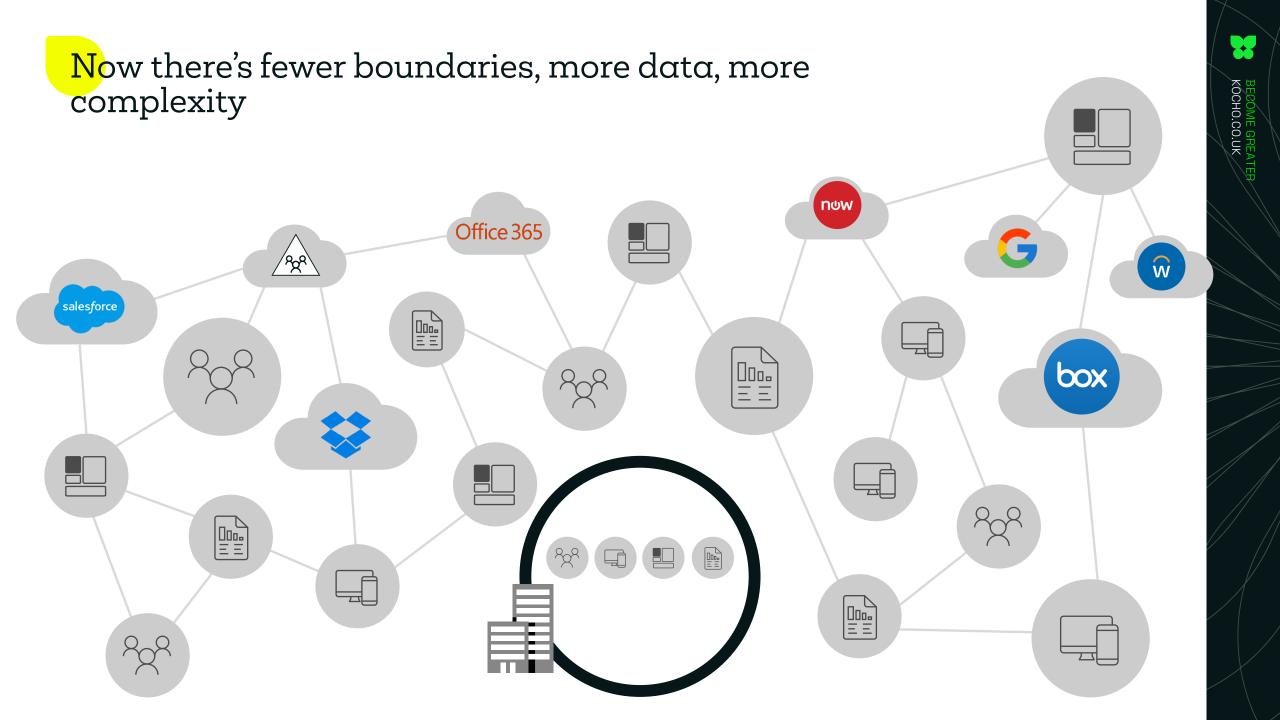
- → Laptops
- → Mobiles / Tablets / Other devices
- $\rightarrow$  Things
  - → Alexa, Siri, Google
  - → Fridge
  - → Cameras
- ightarrow Connectivity anywhere





In the past, the firewall was the security perimeter





- → The right people
- ightarrow The right applications or systems or services
- ightarrow The right location
- → The right time
- → The right device

#### Identity Implementations

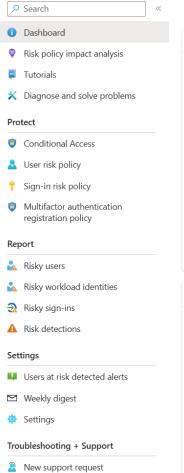






#### https://entra.microsoft.com/#view/Microsoft\_AAD\_IAM/IdentityProtectionMenuBlade

#### i Identity Protection | Dashboard

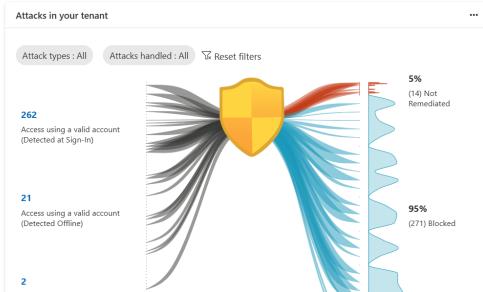


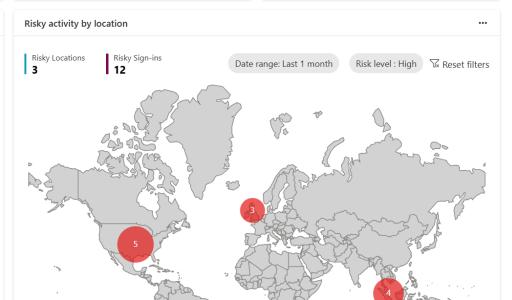




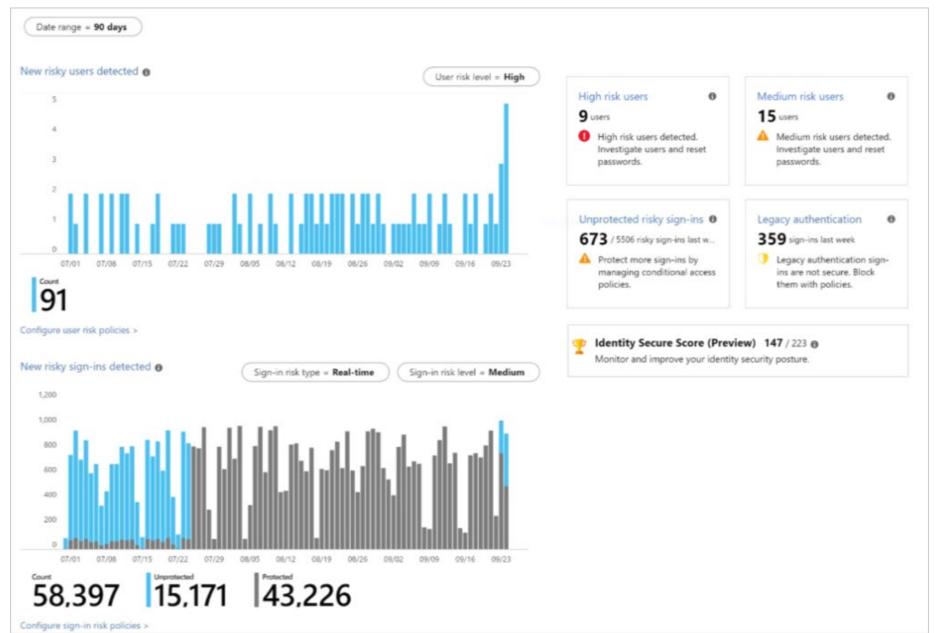






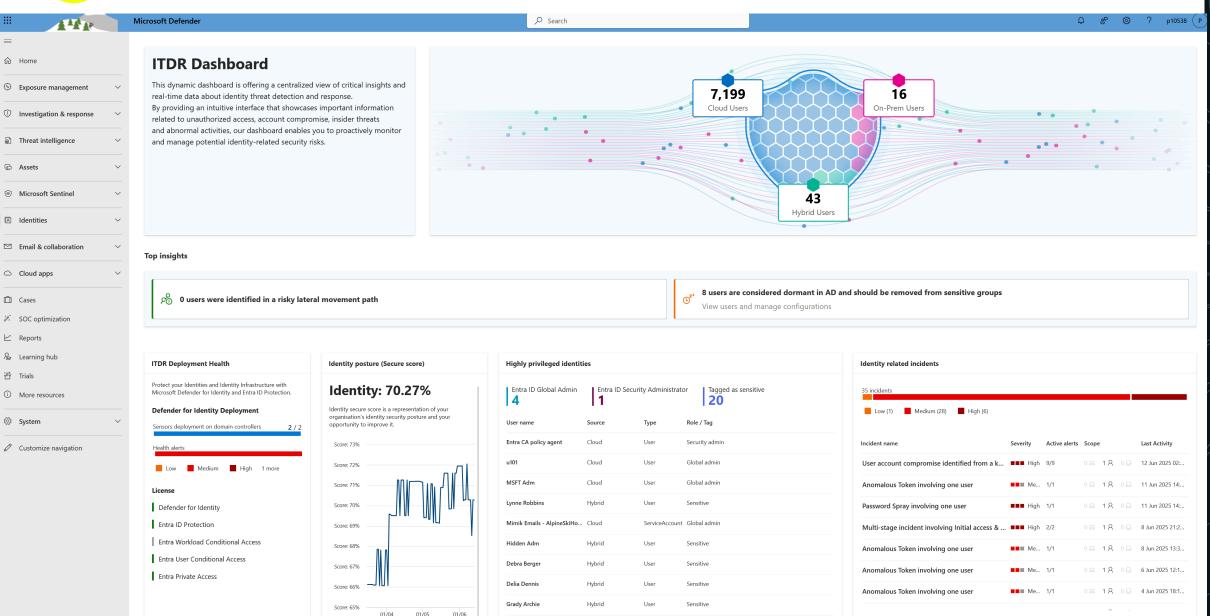


#### Risky Users





#### https://security.microsoft.com/identities/dashboard



#### Proving Identity



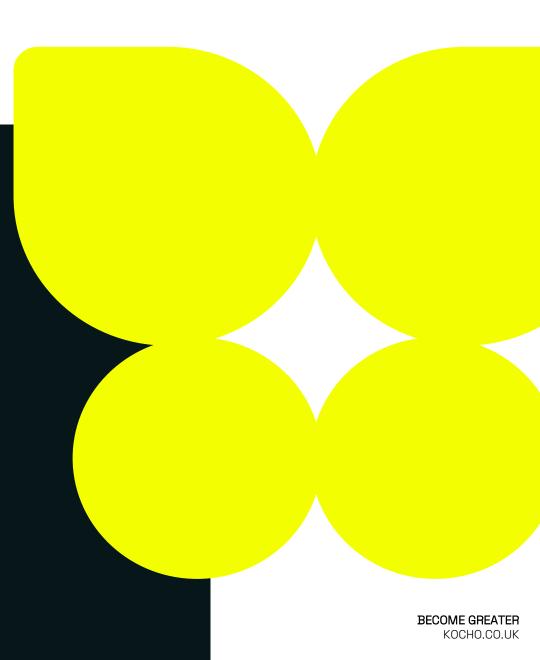
Use Conditional Access



Be aware of location



Be aware of Device

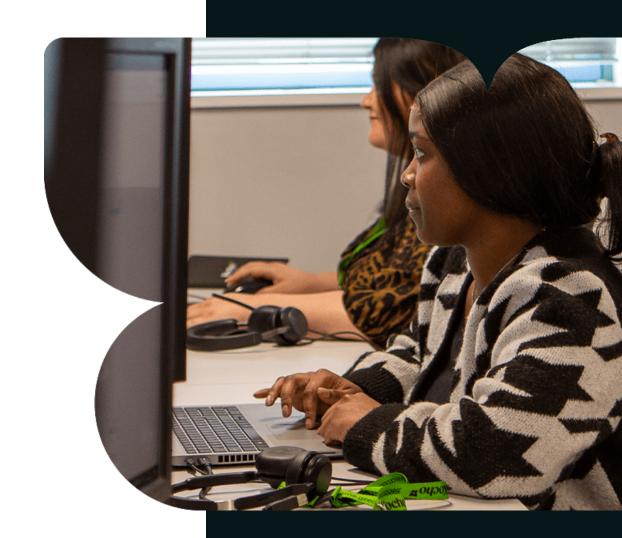


#### Protecting Users

- → Multi-Factor Authentication
  - → Risk based enforcement

- → Identity Protection
  - → Have I Been Pwned

 $\rightarrow$  How do you know?



#### But how do we know it works?

→ MFA ensures that the stolen credentials are not used

- → Conditional Access blocks older/legacy access
  - → Spoofing emails

→ B2B Access Risk in source stops access from External locations





## BESOME GREATER KOCHO.CO.UK

#### Impossible Travel

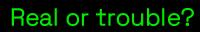


To Amsterdam...





London







To Hong Kong...



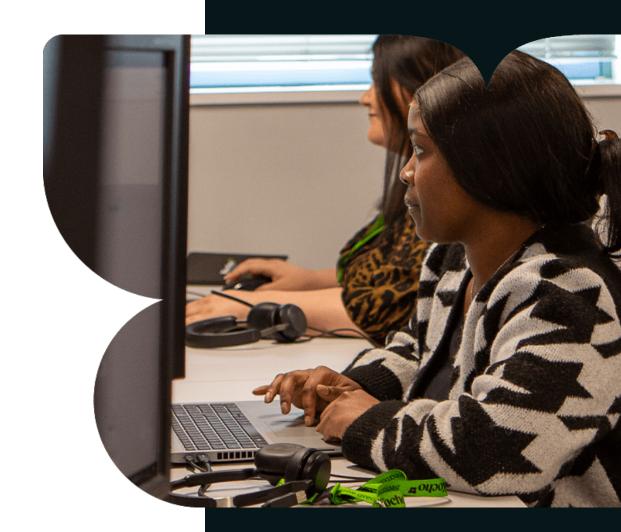
#### Protecting Identity

- → How do we stop identity attacks in their tracks?
- → How do we make sure that we can detect issues?
- → How can we make sure that users are protected?



## What is the easiest way to protect an identity?

- → Set a passv that is
  - $\rightarrow$  Long > 2 ara
  - → Complex U. I.d lower and Number and Special
  - → Change it



## What is the easiest way to protect an identity?

- → Move away from Passwords
- → Passwordless technologies
  - → Authenticator
  - → Passkey
  - $\rightarrow$  FID02
  - → Biometrics
- → Passwords
  - $\rightarrow$  If you have to
    - → Long (12 characters) Change it when it is necessary



- → Unusual country
- → Different device
- $\rightarrow$  Unusual application
- → Download / upload change
- → Watch risk
- → If in doubt MFA



#### What to do?

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- → Force password reset
- → Block activity
- → Control session
- → Valide te user
- Jan 19 1 1 1 0
- → Not S

- → Who can I find out about
- → Construct a Phish?
- $\rightarrow$  When in the LAN what next?
- → What accounts should I aim for?

- → Education
  - → Make sure people know what to do and what not to do
- ightarrow Scan incoming stuff
- → Close off known vulnerabilities
- $\rightarrow$  Patch!



## Any questions?

## Thank you

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