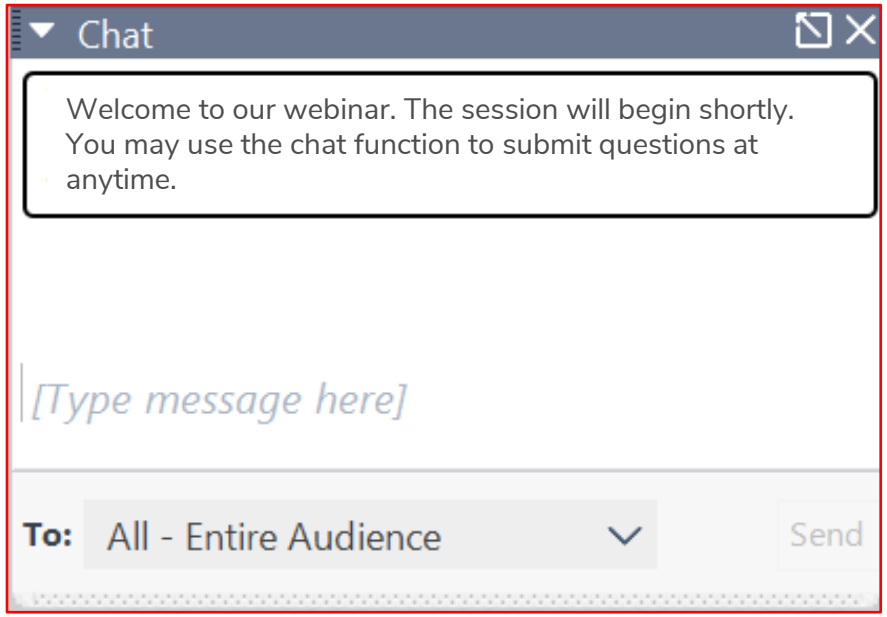
KROLL

10 Essential Cyber Security Controls for Increased Resilience

(and better cyber insurance coverage)

Notes

- Session is being recorded, You'll receive access to the recording in a couple days
- Ask questions via chat >
- We'll try to answer as many questions as possible



Meet The Team

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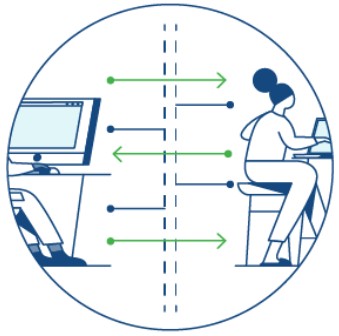


Backups

Access Control

Security Culture Training

Email Hygiene

Poll #1

Why These 10 Controls?

40+

Cyber insurance application questionnaires and ransomware supplementals

2700+

Incidents handled in 2020, trending upwards of 3000 in 2021

350+

Offensive security engagements

Multifactor Authentication

- Additional forms of authentication increases security
- All users **(including admins)** adhere to MFA procedures
- Should be enabled for every system account
- Ensure audit of implementation

Virtual Private Network (VPN)

- Increased during the pandemic, but requires increased security
- Exploited by adversaries fueled by host of vulnerabilities

BEST PRACTICES:

- PATCH!
- Ensure frequent reviews of VPN logs
- All users should log in with minimum access privileges

Remote Desktop Protocol (RDP)

- Full control of a remote computer, including local network access and storage
- Can be exploited by actors if accessible to the internet without 2FA or MFA enabled

BEST PRACTICES

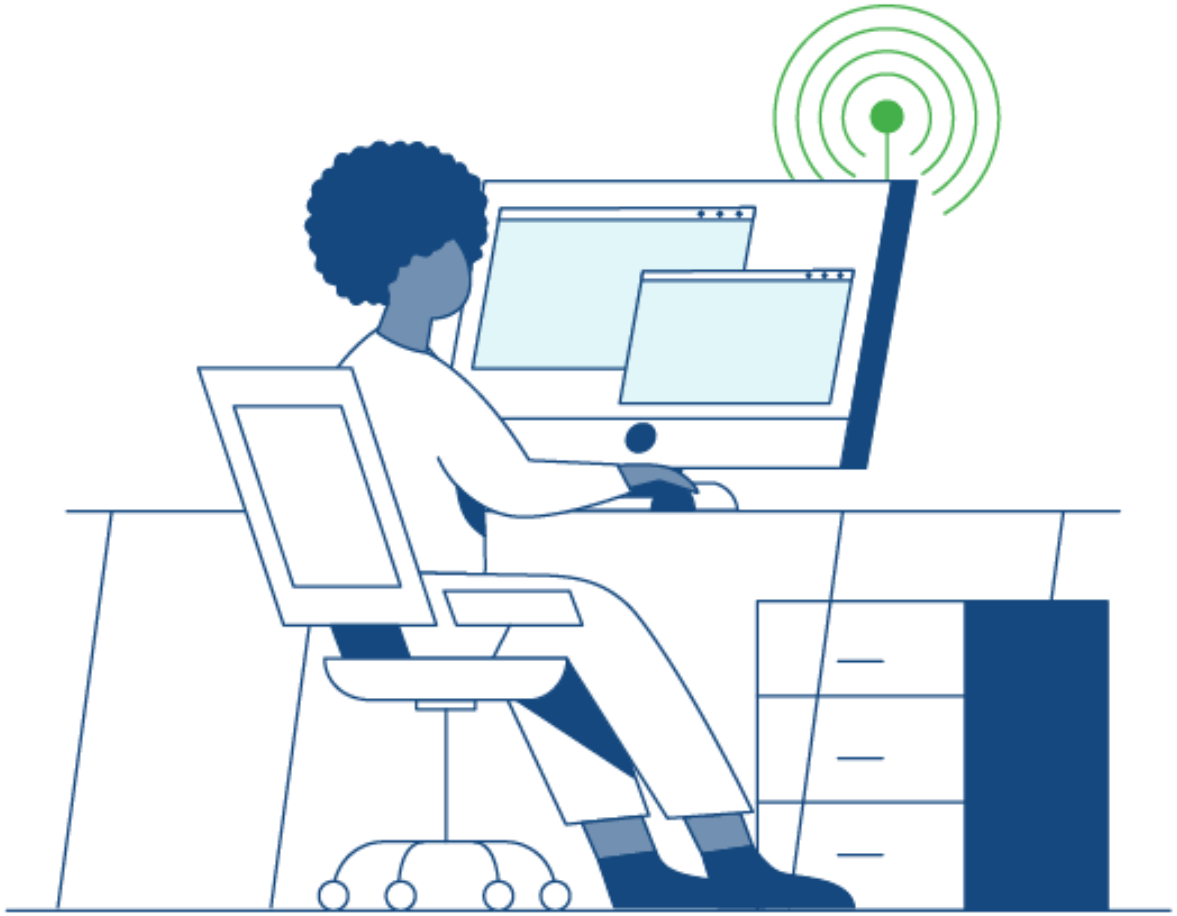
- PATCH!
- Make accessible only via VPN or virtual desktop solution
- Should only be accessible to the internet if 2FA or MFA are enabled

Endpoint Detection and Response (EDR)

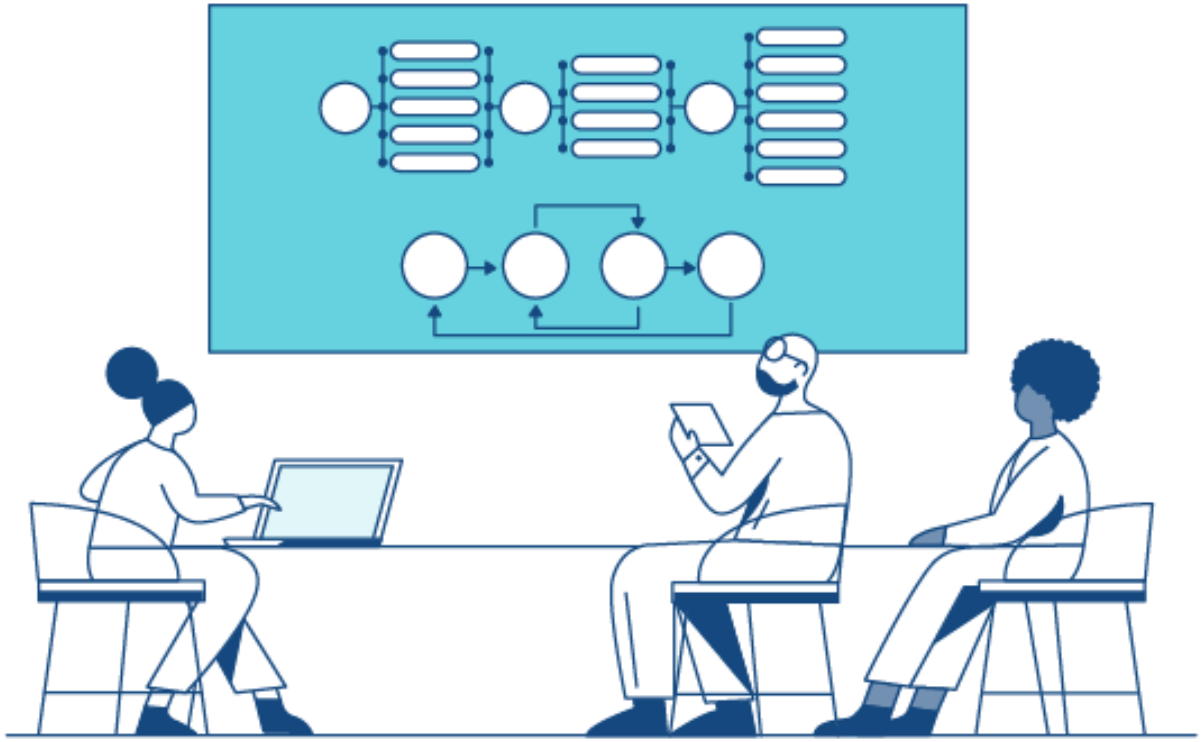
- Lightweight agent deployed on endpoints (laptops, servers, workstations) providing visibility for suspicious behavior
- Looks for network scanning, lateral network movement, and more

BEST PRACTICES

- Should be deployed as wide as possible in an environment
- Team to monitor and validate alerts



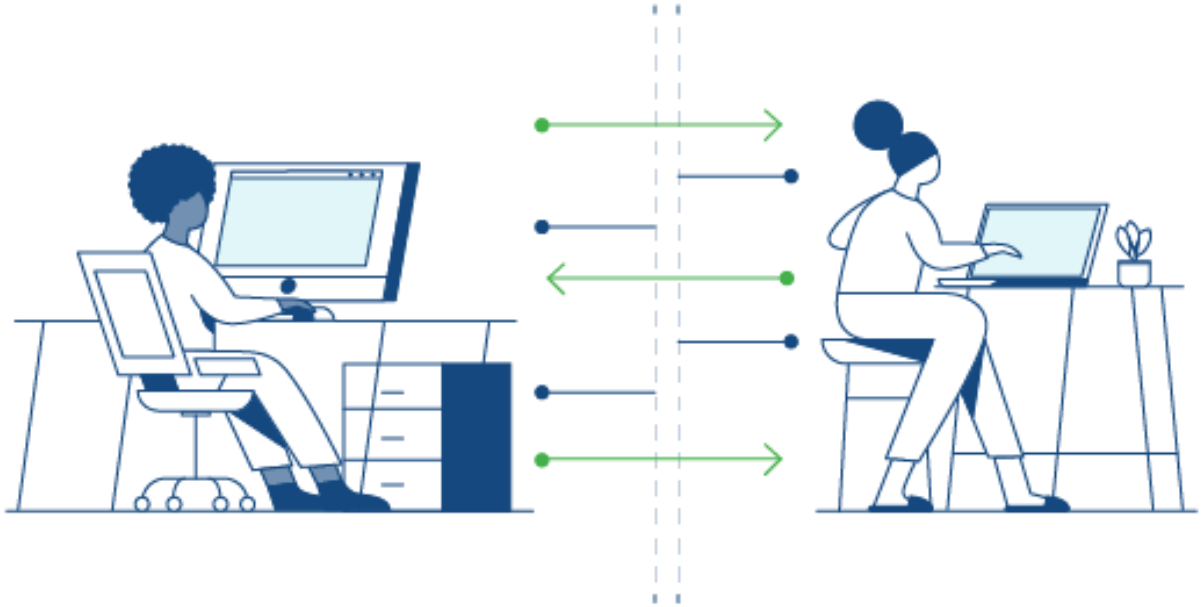
Incident Response Planning



- Should always be accessible in case of incident
- All key stakeholders are identified
- Test and update plan regularly
- Use time wisely – know who to contact

Infrastructure and Segmentation

- Layered approach to security
- Patch management for perimeter devices and 3rd party contracts
- Separate and distinct IT and cybersecurity roles



Poll #2

Backups

- Assess and test recovery capabilities yearly
- Have offline backups – critical with ransomware
- Multiple backups – helpful for data corruption, data loss and malicious events
- Review all data to determine what should be backed up, how often and the best medium

Access Control

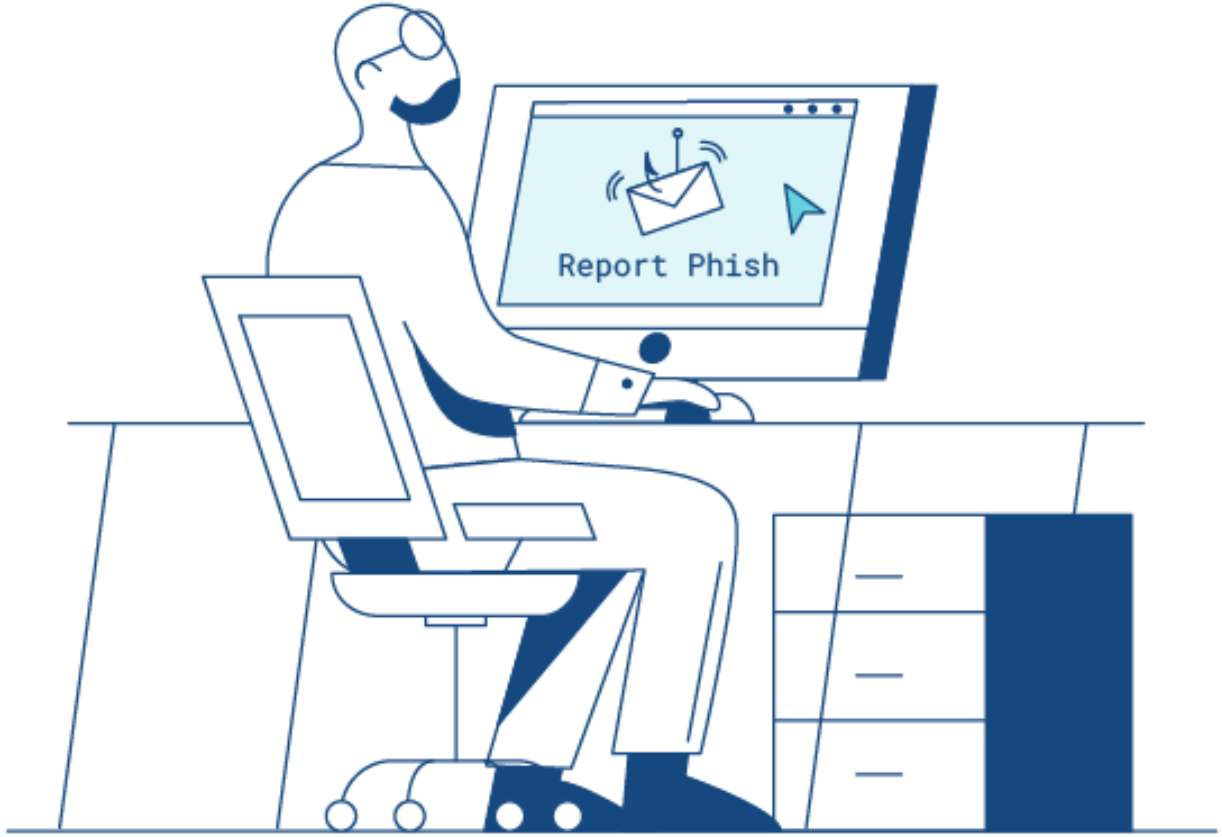
- Institute “least privilege” policy
- Quickly remove access permissions for departed users and adjust permissions when employees transfer roles
- **Regarding IT admins:**
  - privileged-access management solutions
  - Network segmentation
  - Password management
  - Limit admin-level access users

Security Culture

- Empower employees to feel they can raise security concerns and report suspicious issues
- Mandatory cybersecurity training for all staff
- Understand when to retain and delete data
- Provide tools and training for recognizing external email and for validating financial requests

Email Hygiene

- Train employees to identify and report phishing emails
- BYOD – create additional written policies and tech controls to manage associated risks
- Multi-layered defense:
  - Filtering controls on inbound and outbound messages
  - Attachment sandboxing
  - URL rewrites



Q&A

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