KROLL

Cybersecurity

Looking Back, Looking Forward

June 6, 2022

Kroll – Protecting People and Property

Why Are We Talking About This?

- There is a hacker attack every 39 seconds
- 43% of cyber attacks target small business
- 85% of successful breaches target humans
- The average cost of a data breach in 2020 will exceed $4 million
- In 2020 estimates say 36 billion personal records were exposed from breaches (up from 7.9 billion in 2019)
- 65% of security professionals surveyed expect to be responding to a major breach in the next year

Top Cybersecurity Topics

Ransomware	**Phishing**	**Internet of Things (IoT)**
Business Email Compromise (BEC)	**COVID-19 Attacks**	**Regulatory Changes**

Impacts

Financial

- Business interruption, theft of funds, destruction of equipment
- Raises in cyber insurance premiums
- Lawsuits

Reputational

- Loss of confidence in your Company, your product, your brand

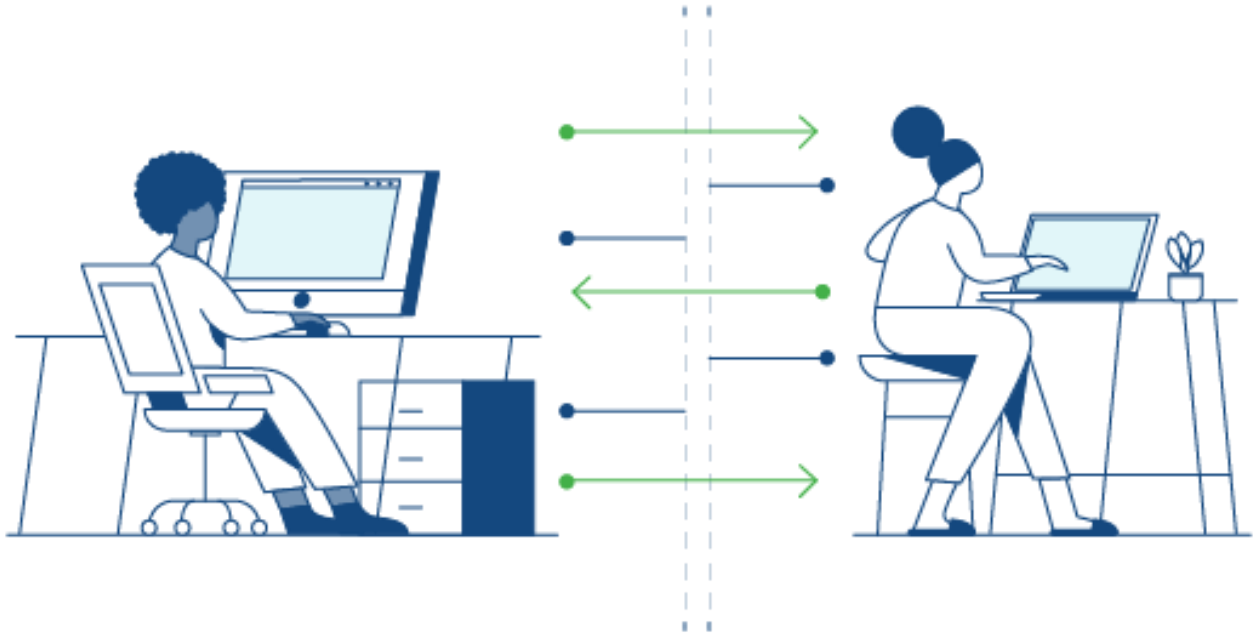
Governmental Impacts

- Loss of infrastructure use, loss of confidence in government
- Potential for impact to hardware (ties into IOT)
- Targeting by Hostile Intelligence Services

Best Practices – Business

Preparedness and Hygiene

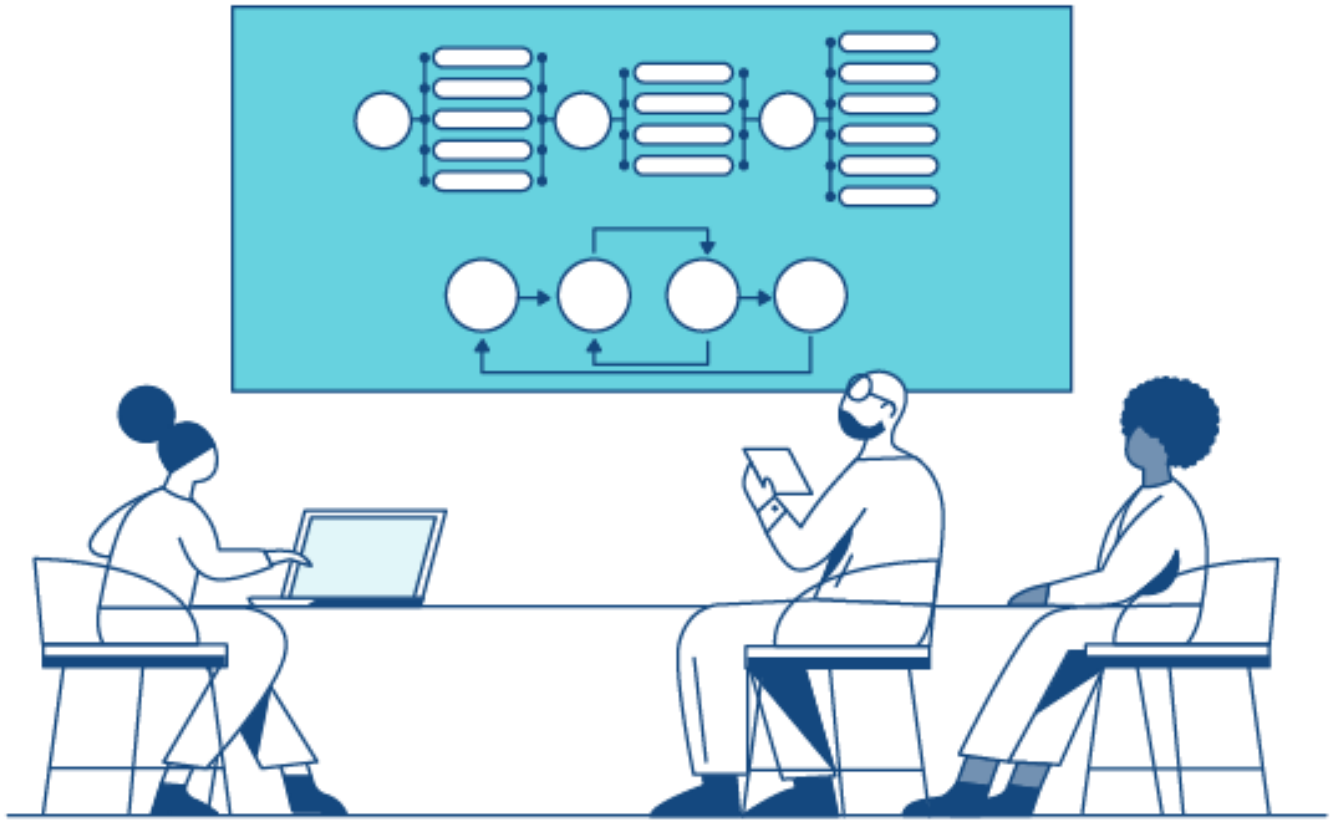
- Regular offsite backups
- Vulnerability assessments
- Reduce the surface area for the attack
- Segmentation



Best Practices – Business

Cyber Resiliency

- Have an incident plan
- Ensure everyone knows the plan
- Train to the plan
- Learn and modify



Resiliency Key Components

- Anticipate the threats
- Preparation
- Response
- Remediation/Recovery

From: Kroll Responder Team
Sent: Wednesday, September 9, 2020 9:51 AM
Subject: Kroll Response- [ALERT-14] Malicious Software (Ransomware) affecting l-12345.contoso.com

Threat Detection	ALERT-14
Status	Acknowledged > **Contained** > Remediated
Action Required to Remediate	• Reset password of user accounts: **Administrator** and **A013215**.
Hostname (IP Address)	l-12345.contoso.com (10.13.25.6)
Username	CONTOSO\A013215
Incident Summary	At 2020-09-09 08:21:09 UTC, Kroll observed the execution of a malicious binary *"c:\users\a013215\desktop\svchost\svchost.exe"* which was masquerading as the Windows Service Host (svchost.exe). Kroll found this binary to be associated with **Spade Ransomware** which encrypts and renames files using a *".spade"* file extension. Upon further investigation, Kroll found that the threat actor leveraged an open Remote Desktop Protocol (RDP) [TCP/3389] connection to the laptop, and authenticated to the system using the account **A013215**, originating from source IP ***92.xx.xx[.]xx***. The ransomware binary also made a connection to IP *94.xx.xx[.]xx*. Events related to open RDP were observed for the same host in the detection ALERT-13.
Kroll Response Actions	• Terminated the active RDP session. • Terminated all associated running processes. • Banned the hash of the malicious file. • Isolated the laptop to stop further spread of Ransomware into the network.

Recommendations	• Block the following IPs on perimeter devices:
	  ○ *92.xx.xx[.]xx*
	  ○ *94.xx.xx[.]xx*
	• Review RDP authentication and access policies.
	• Contact your Kroll team with any questions on the above recommendations.

Best Practices – Personal

Personal Networks/Devices

- Update your devices often and automatically
- Change default username/passwords/network names
  - Home security systems, routers, etc.
- Leverage security software and keep it current
- Encrypt your device and media

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About Kroll

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