

LEARN TO SECURE YOUR GREATEST ASSET (YOUR BUSINESS) FROM A CYBER-ATTACK

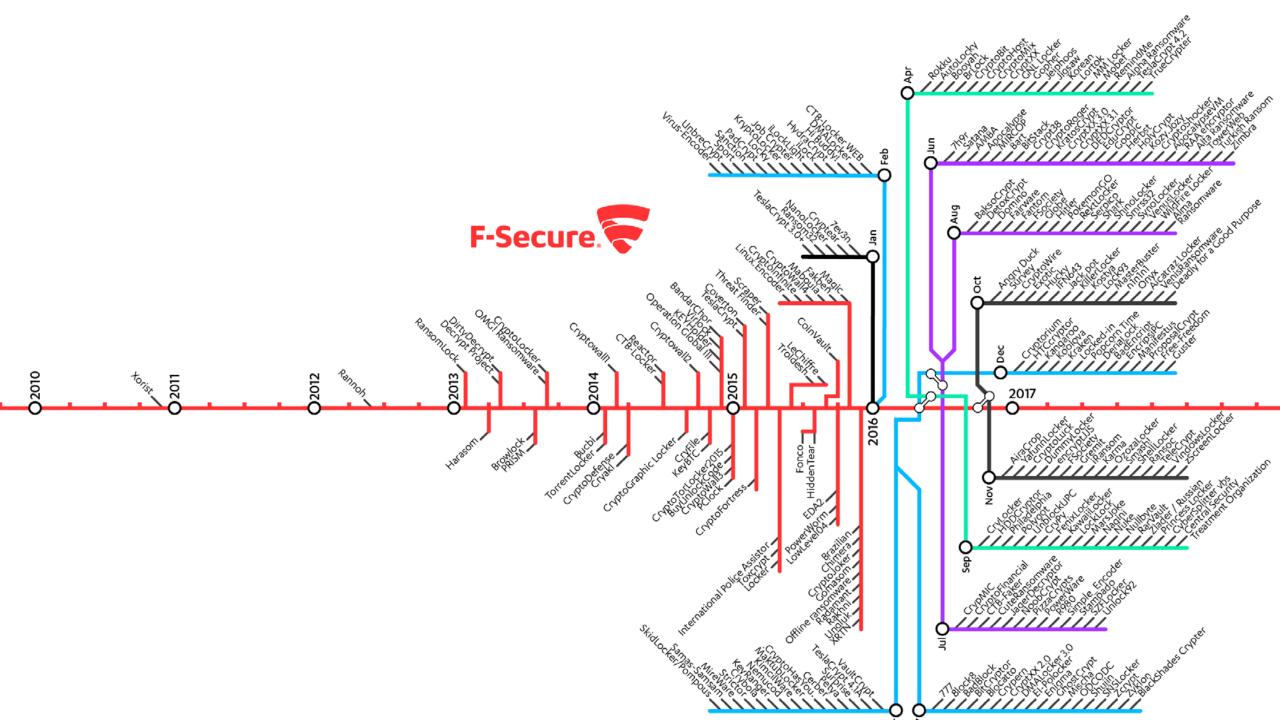
MAD DATA





Agenda: Current Cyber Landscape 5 Groups under Attack How to Protect your Business

CURRENT CYBER LANDSCAPE



I'm not in a compliance business ...

Hackers wouldn't go after a small company like me...

I don't collect sensitive data...

Common Cyber Misconceptions

5 REASONS HACKERS HACKERS TARGET SMALL-MID SIZED SIZED BUSINESSES





They are more vulnerable to social engineering

They often feel they must pay ransoms

They are the 'gateway'' to larger organizations



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They are sometimes not targeted at all, but simply collateral damage



Why Do Businesses Get Hacked?

Every industry... Collects Sensitive Data

Relies On Technology

#1 Cause of Cyber Attacks is Human Error



Performs Financial Transactions



Current Ransomware Trends

Main Attack Vectors:

1. Phishing Emails ~35%

2. "Unknown"

3. RDP Compromise

Average ransom payment in Q4 2022:

\$408,644

Average business interruption downtime from ransomware attacks: **25 Days**

2022 Trends:

- Supply-Chain Targets
- Open RDP Ports
- Double Extortion Threats

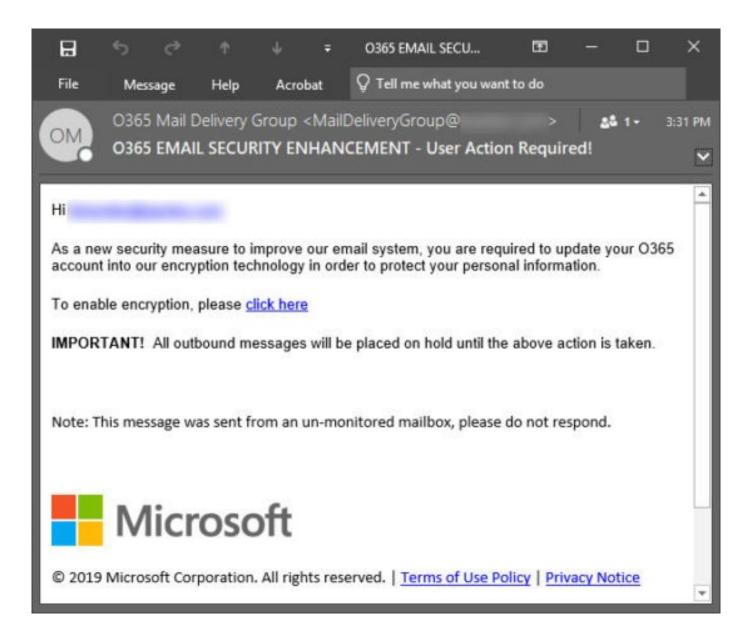
Hacking Profitability

Coveware Stats	Ransomware	Drug Trafficking in 1992		
Revenue/Unit	\$140,000/attack	\$60,000/kilo		
Operating Costs/Unit	\$2,500/attack*	\$5,000/kilo		
Profit Margin	98%	91%		
Arrests/Unit	.0008*	.50		
Deaths/Unit	0	.25		
Barriers to Entry	None	Very High		

*Estimate based on reported costs of network access credentials, and amount of hours a threat actor expends on the average attack

**Estimated roughly 25,000 ransomware attacks of impact in 2020. Research found evidence of less than 20 total arrests globally.





Microsoft

Sign in

Sign in with your Microsoft account to join the family group.

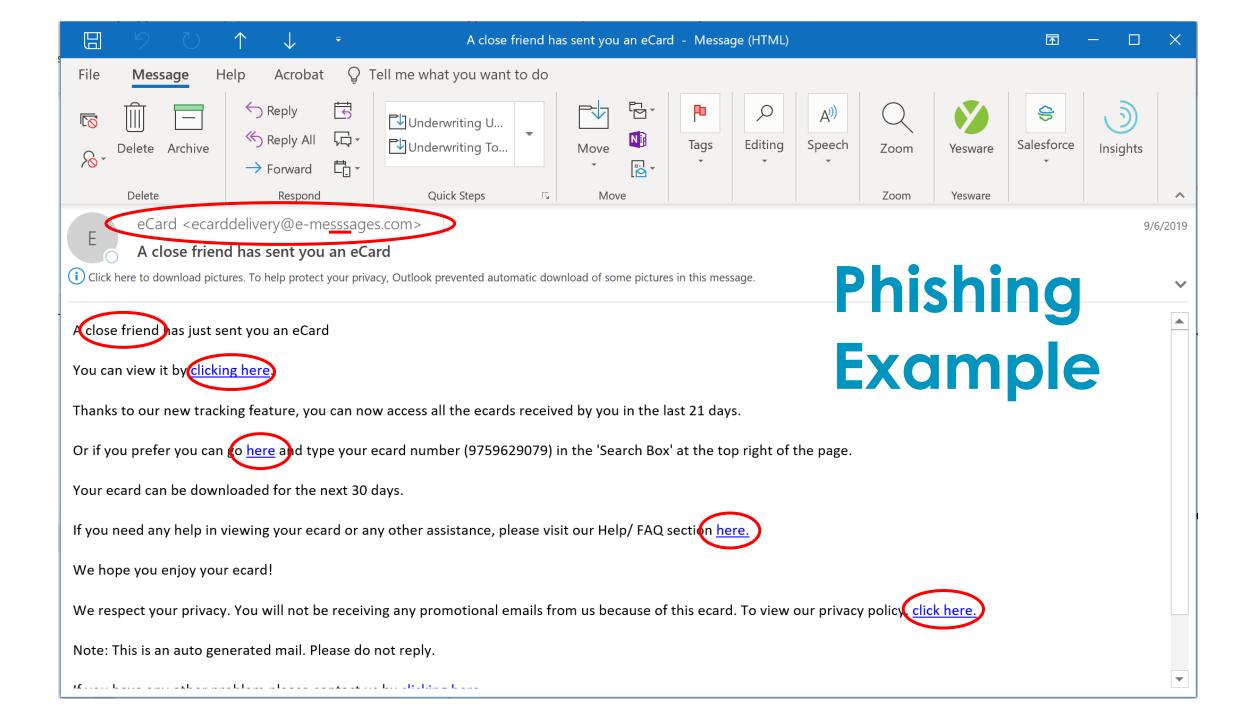
Email, phone, or Skype

No account? Create one!

Sign in with Windows Hello or a security key 🥥



ୠ Sign-in options







-	Please select t	he file (or folder i	in rar zip ar
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🗖 Evvido	🗖 Panda	🗖 Vexira
🗖 ArcaVir	🗖 Webroot	🗖 TrendMicro
🗖 QuickHeal	🗖 DigitalPatrol	🗖 GData
🗖 ZoneAlarm	🗖 AhnLabV3	🗖 Emsisoft
🗖 BullGuard		

ало:		Конец:			Применить
атистика					
ВЕСЬ ПЕРИОД					10.32%
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АУЗЕРЫ	хиты	хосты	ЗАГРУЗКИ	9⁄0 †	
Chrome >	2273	2148	485	22.58	
Mozilla >	104	72	11	15.71 🔵	-
Firefox >	5033	4847	581	11.99 🔵	
Opera >	360	288	22	7.75	
MSIE >	4232	3080	77	2.51	
Safari >	1287	1102	11	1.00	
:	хиты	хосты	загрузки	9/6 †	= =
Windows 2003	21	18	5	27.78	
Windows 2000	41	22	4	18.18 🔵	
Linux	179	143	19	13.48 🔵	
Windows XP	3838	3206	399	12.48	

СТАТИСТИКА

потоки

ФАЙЛЫ

БЕЗОПАСНОСТЬ

ANCHANTL

Автообновление: 5 сек.

настройки

-01-

ALDADA

O Blackhole

эксплоиты			ЗАГРУЗКИ	9/6 †			
🔆 Java X >			584	49.20			
🔆 Java SMB 🔸			460	38.75			-
V PDF >			108	9.10	•		-
🔆 Java DES 🔸			29	2.44	•		-
WDAC >			6	0.51	•		-
СТРАНЫ	хиты †	хосты	ЗАГРУЗКИ	9/6		-	
United States	12417	10981	1119	10.19	•		
💽 Brazil	154	101	9	8.91	•	i	
India	63	35	4	11.43	•		
• Japan	47	9	3	33.33	•		
Mexico	37	28	0	0.00			
Argentina	31	12	2	16.67	•		
Bulgaria	31	10	0	0.00	-		
Indonesia	29	17	5	29.41	-		
Romania	26	16	0	0.00	-		
C Pakistan	26	13	1	7.69	•		
Philippines	24	16	1	6.25	•		
Israel	22	14	2	14.29	•		
Chile	19	6	0	0.00			
Singapore	18	15	0	0.00	-		
Hungary	18	11	0	0.00			
Другое	327	222	41	18.55			

выйти →Ц

□ DrWeb Avast. C eTrust AVG8 □ Vba32 F-Prot C OneCare Avira Norman C Solo o2010 🗖 Comodo C Rising □ IkarusT3 □ ViRobot

SAS

x Ransomware as a Service (RaaS) Platforms

Создать виджет

- **Commercialized Exploit** \bullet **Packets**
- **Help Hotlines** •



Management System

GROUPS UNDER ATTACK

5 TARGETS OF RANSOMWARE

By Industry:

- Unknown : 5434
- Public administration : 2792
- Finance : 2527
- Professional Services: 3566
- Manufacturing: 2337

5 TARGETS OF RANSOMWARE

By Company Size:

3 to 1 Small vs Medium to Large Business

Why Manufacturing ??

- 1. Legacy Equipment with software that is outdated (PLC, CNC's are using windows xp still
- 2. Networks were setup quickly and security was being considered
- 3. Open sharing which makes it easy for an attack
- 4. Some ERP software providers tell manufacturers you don't need security
- 5. Proper network backups are not in place
- 6. Still using Hotmail, yahoo or gmail for business communications
- 7. Nobody knows who I am
- 8. Tend to deal with things when they absolutely have to

HOW TO PROTECT YOUR BUSINESS

Network Risk Assessment is a Must

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Anti-Virus that is SOC monitored



- Anti-Virus that is SOC monitored
- MDR Solution (managed detection and response)

Iranian cybercriminals' TTPs based on MITRE'S ATT&CK matrix

|GROUP|iB|

INITIAL ACCESS	PERSISTENCE	PRIVILEGE ESCALATION	CREDENTIAL ACCESS	DISCOVERY	LATERAL MOVEMENT	COMMAND AND CONTROL	IMPACT
External Remote Services (T1133)	Valid Accounts: Domain Accounts (T1078.002)	Exploitation for Privilege Escalation (T1068)	Brute Force: Password Guessing (T1110.001)	Network Service Scanning (T1046)	Remote Services: Remote Desktop Protocol (T1021.001)	Remote Access Software (T1219)	Account Access Removal (T1531)
			OS Credential Dumping: LSASS Memory (T1003.001)	Network Share Discovery (T1135)			Resource Hijacking (T1496)
			OS Credential Dumping: LSA Secrets (T1003.004)	Remote System Discovery (T1018)			Inhibit System Recovery (T1490)
							Data Encrypted for Impact (T1486)

- Anti-Virus that is SOC monitored
- MDR Solution (managed detection and response)
- Access Controls

Examples: Azure AD, JumpCloud or a Server

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- Backups on Data that's in house
- Firewall monitoring or a Follow-Me-Firewall

We will provide 30 assessments for free for AWFS Members

We will provide Run a Dark Web Scan to see if any company information out there for Free

www.maddata.io/network-assessment/



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