

# Cyber Crime Landscape

Why would a cybercriminal target your business?

**You have what they want.**

- Intellectual property
- Customer information
- Employee information (e.g. W2s, PII)
- Medical records

**\$2.1 trillion:** The total global annual cost of all data breaches by 2019, as suggested by Juniper Research.

Because of the growth in data breaches, personal data is easier to buy on the dark web than ever.

**RSA reports personal data can cost as little as \$0.20 to \$15 USD.**

Sources:

<https://www.comparitech.com/vpn/cybersecurity-cyber-crime-statistics-facts-trends/>

<https://www.rsa.com/content/dam/en/white-paper/2018-current-state-of-cybercrime.pdf>

# Who can expose your business?

## Internal Threats



Employees



Vendors

- **Malicious:**  
stealing information  
(e.g., stealing customers  
information, card skimming)
- **Negligence:**  
lost resources storing information  
(e.g., laptops, smartphones,  
tablets)

## External Threats



Individual  
threatactors



Hacktivists



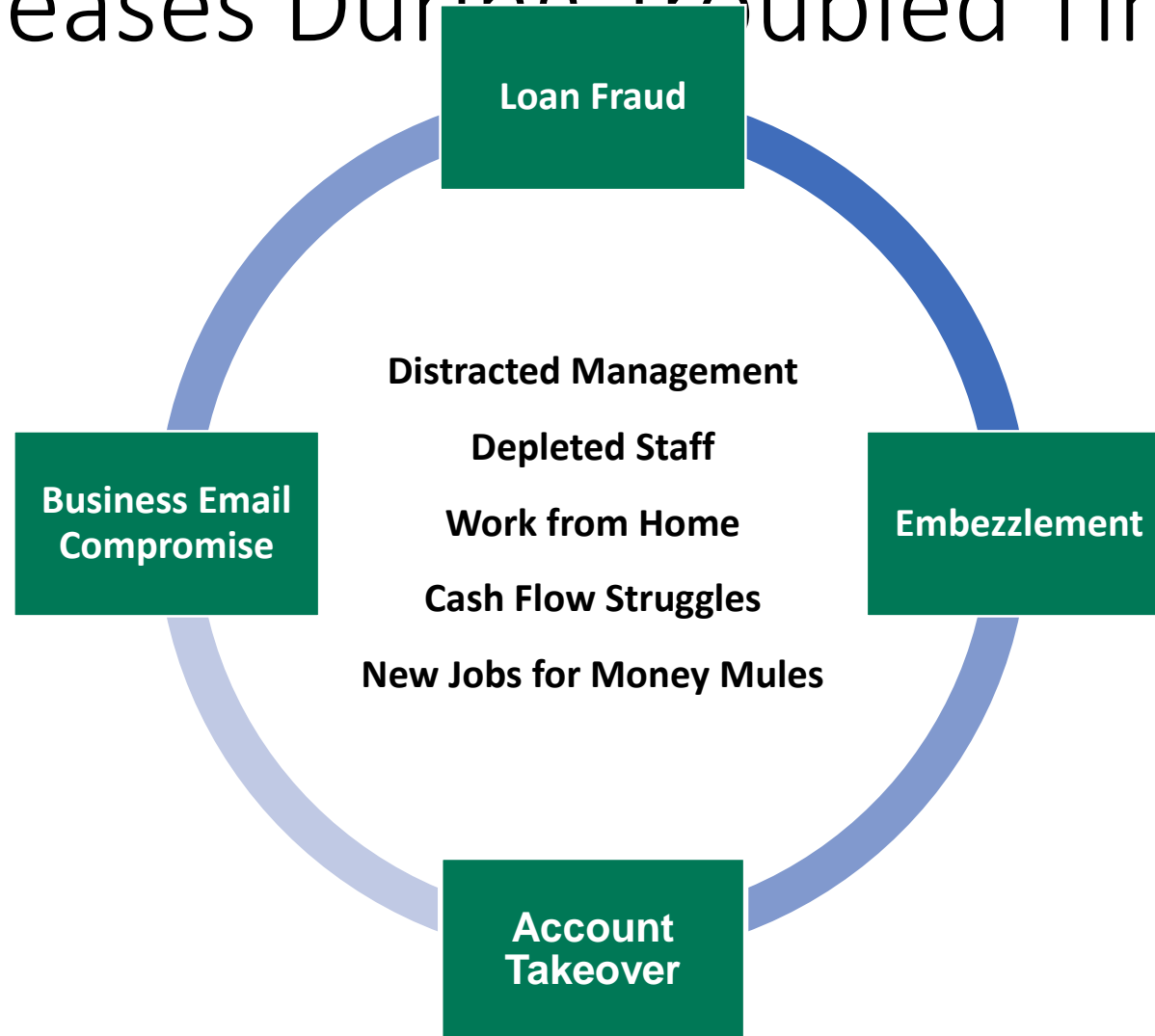
Organized  
criminals



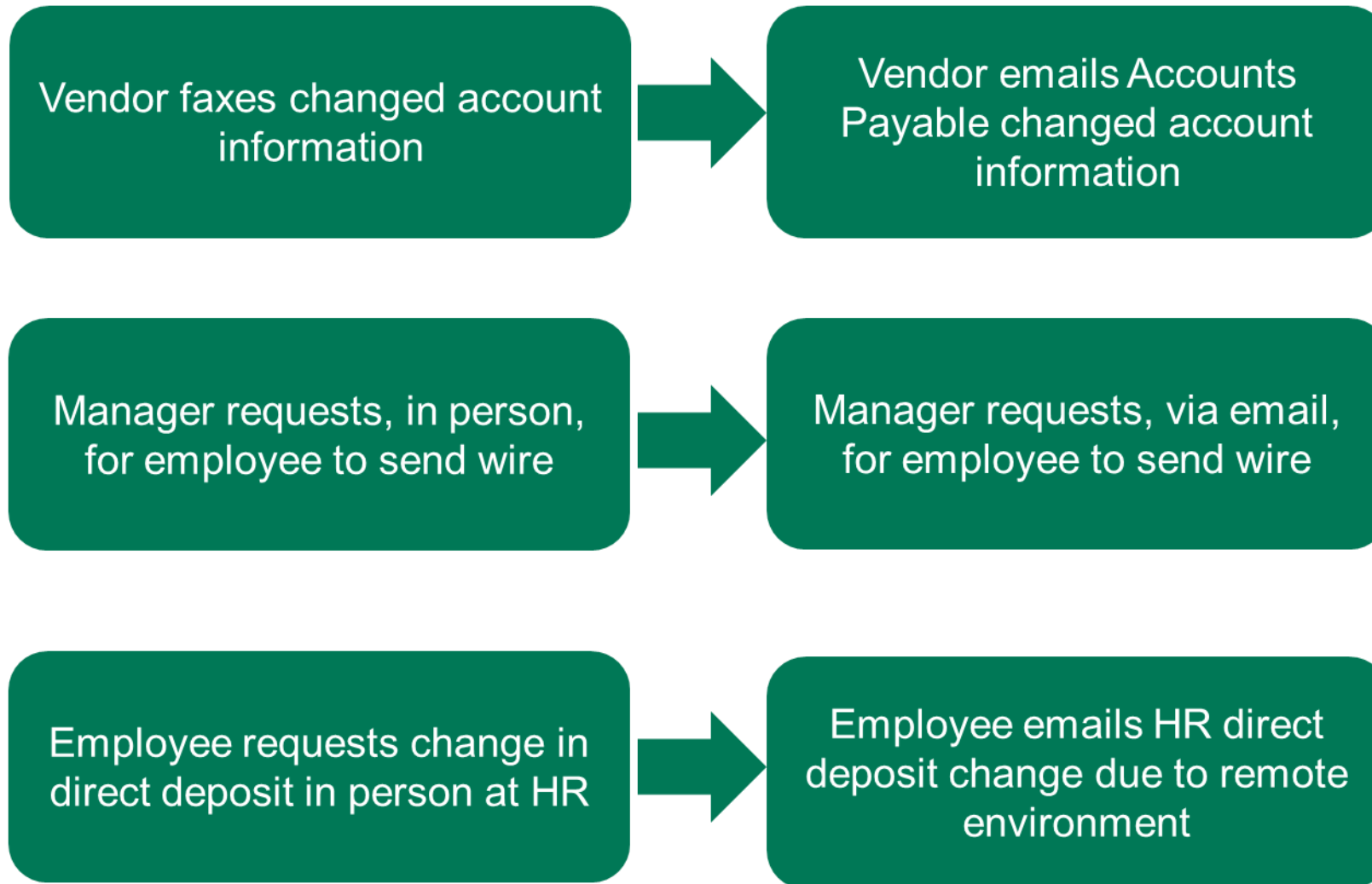
Nation-state

- Steal information
- Utilize viruses or malicious code
- Disrupt businesses via cyber vandalism
- Pursuing social or political agenda

# Fraud Increases During Troubled Times



## What has changed with switching to a remote environment?



## Phishing Attacks



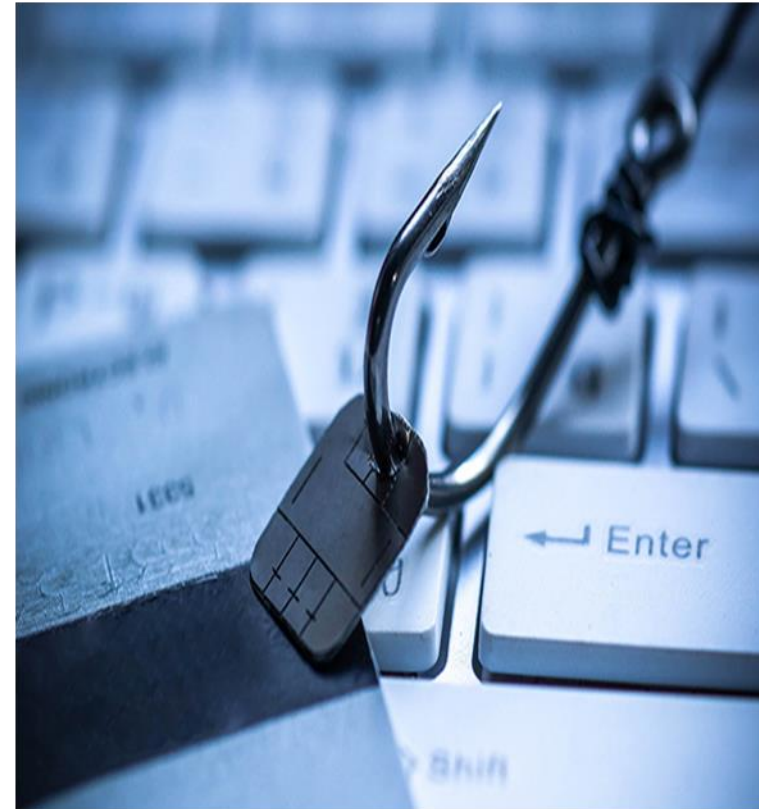
**91%** of cyber attacks started as a phishing email



Phishing attacks **PREY** on curiosity, greed, great deals and emotion



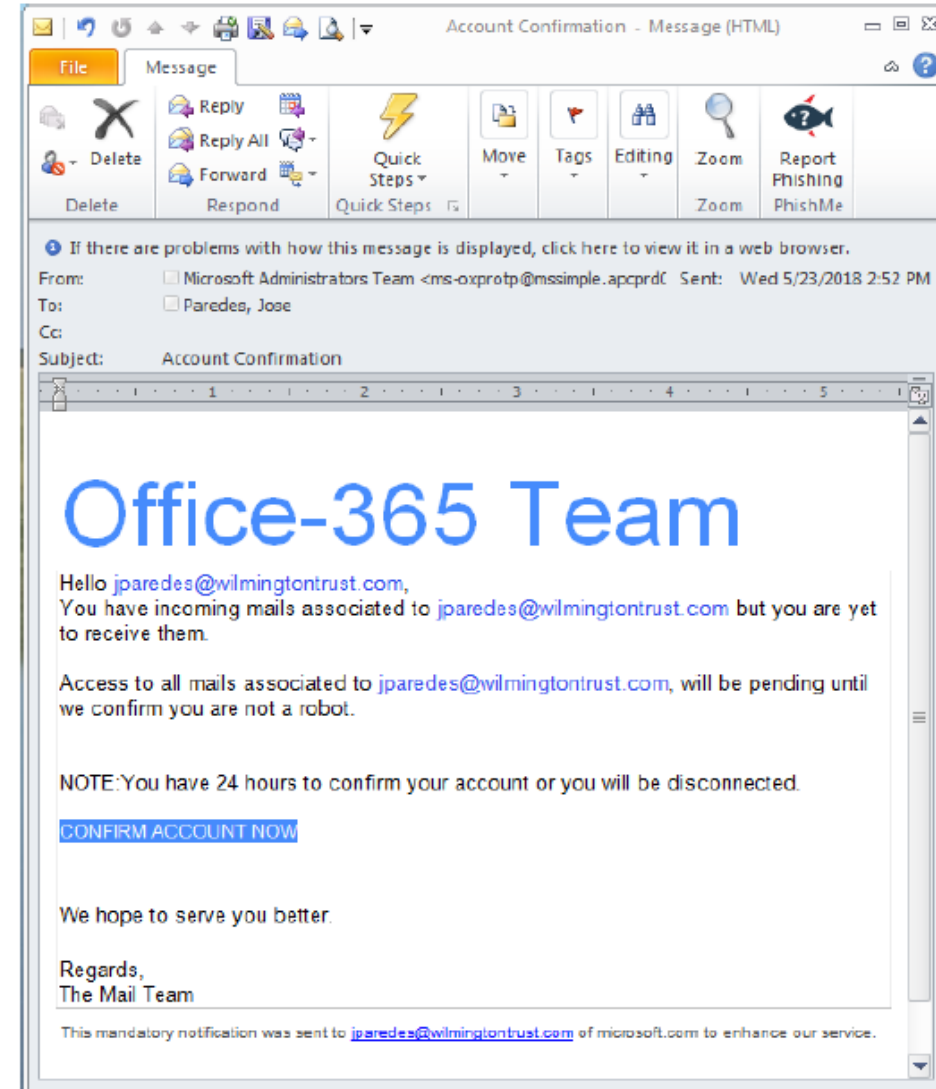
A successful phishing attempt could **STEAL** your credentials, passcodes and place malware on your computer



## Cyber Security Hygiene Tips: Phishing

1. Be wary of links or attachments. Hover over embedded links to reveal their destination
2. If in doubt of the legitimacy of an email, text or call, contact that person/ company using an authenticated source
3. Avoid using same password across different sites
4. Avoid using public Wi-Fi
5. If you receive a suspicious email that appears to be from M&T, forward it to [phishing@mtb.com](mailto:phishing@mtb.com)

Example Phishing E-mail reported by an M&T Employee



## Trends: Credential Re-use

**Definition:** An unfortunate trend where people re-use the same username and password on multiple sites

61 billion credential stuffing attacks between January 2018 and June 2019

### Quick Defense Tips!

- Change default credentials
- Use different passwords across multiple online sites

Source: [blog.knowbe4.com/18-months-61-billion-credential-stuffing-attacks](https://blog.knowbe4.com/18-months-61-billion-credential-stuffing-attacks)

## Cyber Security Hygiene Tips: Mobile Phones

1. Install anti-virus software on your phone
2. Subscribe to your mobile carrier's anti-spam services
3. Utilize two-factor authentication when available
4. Enable remote tracking in case your phone is lost
5. Avoid using public Wi-Fi
6. Only download apps from your phone's official app store
7. Configure auto-lock
8. Use a mobile VPN app
9. Don't answer calls from numbers you don't recognize
10. Check your phone settings for built-in call blocking
11. Disable the microphone on apps not needed
12. Keep your phone's operating systems and apps updated





## Cyber Security Hygiene Tips: Voice Assistants

- Microphones contained within smart speakers and mobile phones (for some apps) are configured to always be listening when they are powered on
- Third party employees may have access to voice recordings on Smart Devices
- Amazon Alexa, Google Assistant, iPhone and Android Phones all have settings to turn off microphones and/ or recordings



# Ransomware

- A tactic involving the use of malicious software (malware) that, when downloaded to a computer, encrypts files so they can no longer be accessed – OR it locks down the operating system entirely so the user can no longer access anything.
- Typically delivered via email
- Ransomware damage costs will rise to \$11.9 billion in 2019  
Source: KnowB4



# Cyber Security Hygiene Tips: Ransomware

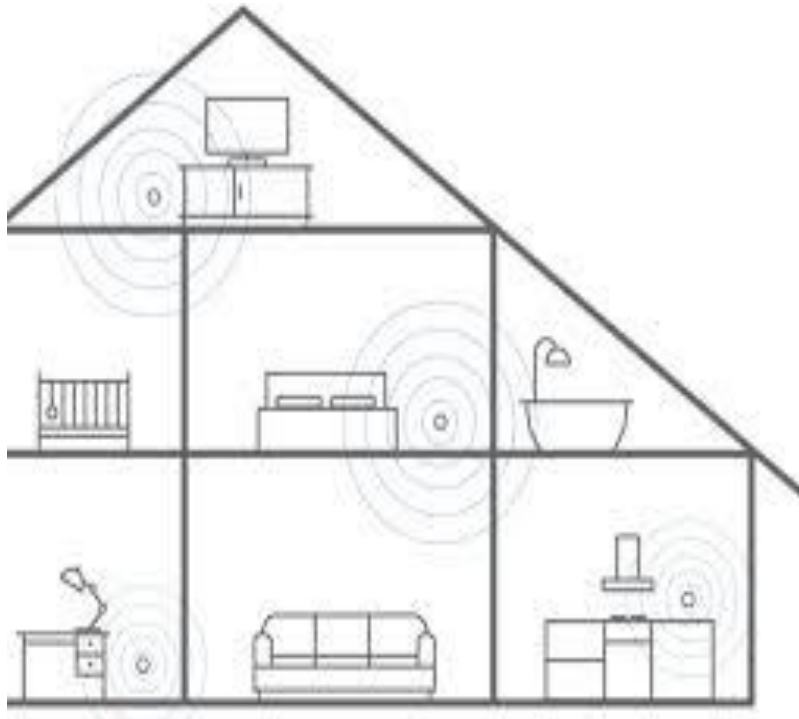
- Even when users recognize the tactics used by cybercriminals and adopt some security practices, ransomware may end up on the system even with the best precautions
- The FBI advises against paying the ransom because it doesn't guarantee the information will be returned
- The best step against losing important files in a ransomware attack is to back up important files, so if they are encrypted, nothing is lost.

## Quick Defense Tips!

- Update anti-virus software
- Be vigilant when opening emails
- Change default credentials

Source: 2017 Verizon Data Breach Report

# Protecting yourself in a remote environment



- Keep all networked devices updated
- Secure your router
- Use strong passwords and two factor authentication
- Keep regular backups

# Securing Business Information

- Use corporate-issued devices for work only
- Stick with approved third-party services
- Password protected applications on mixed-use devices
- Shred physical documents



Photo source; sciencemag.com

# Tips to Help Protect Yourself and Your Clients

**Establish Procedures**

**Dual Administration**

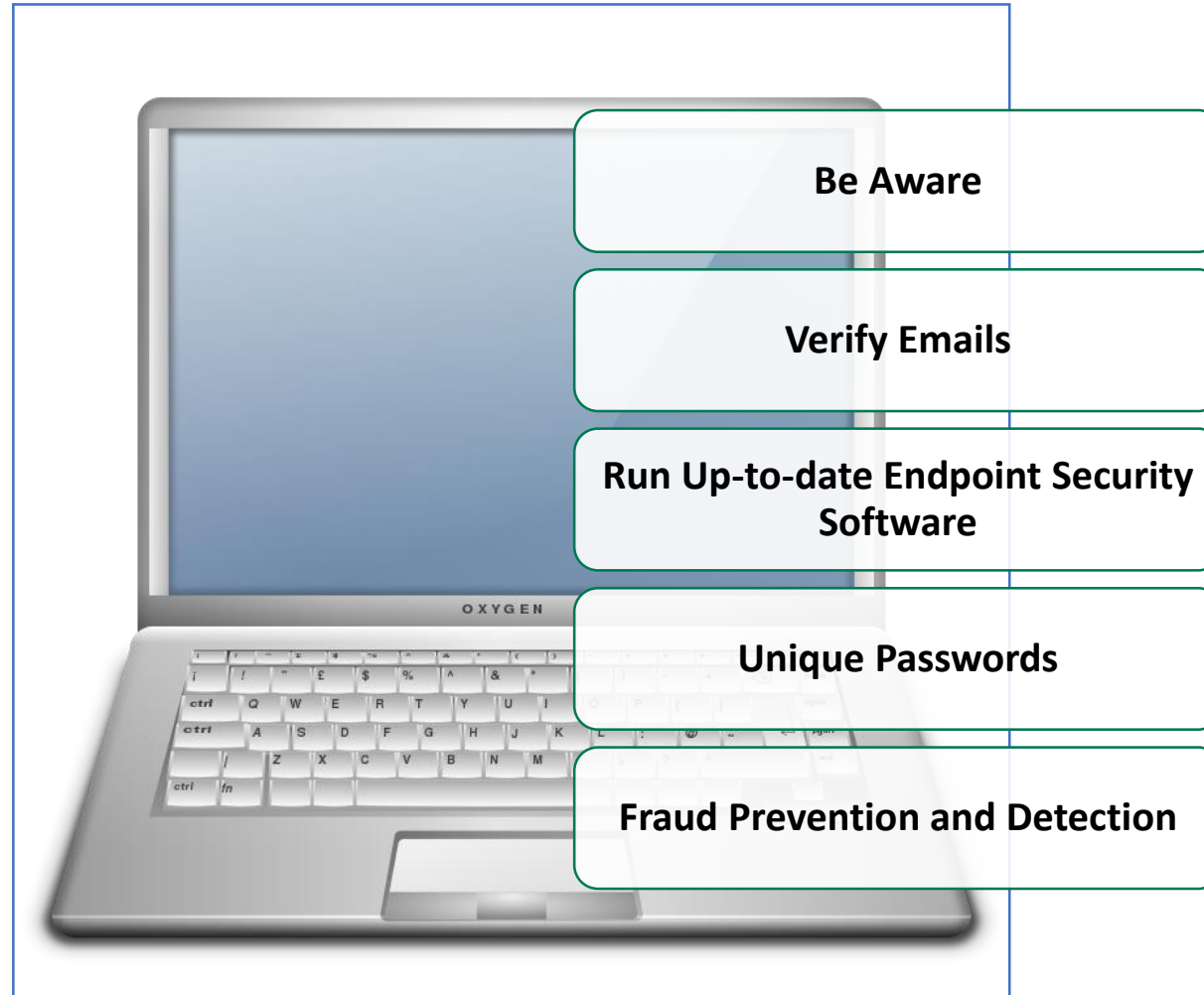
**Review Transactions Regularly**

**Two Layer Authentication**

**Explore Cyber Insurance**



# Tips to Help to Protect Yourself and Your Clients



# Customer Controlled Best Practices

