

# DIGITAL TRANSFORMATION WEBCAST SERIES

Secure and Stable Technology

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# Your presenters

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# Agenda

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## Topic

Digital Strategy Overview

What does secure and stable mean?

Application delivery

Identity

Secure endpoints

Privacy

Educated and suspicious workforce

Wrap-up and Q&A

## Learning objectives

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By the end of this session, you will:

- Gain an understanding of a Digital Strategy framework
- Understand technology trends in the professional and business services industry
- Be able to describe challenges and solution options for security and privacy
- Become familiar with infrastructure solutions to drive digital transformation

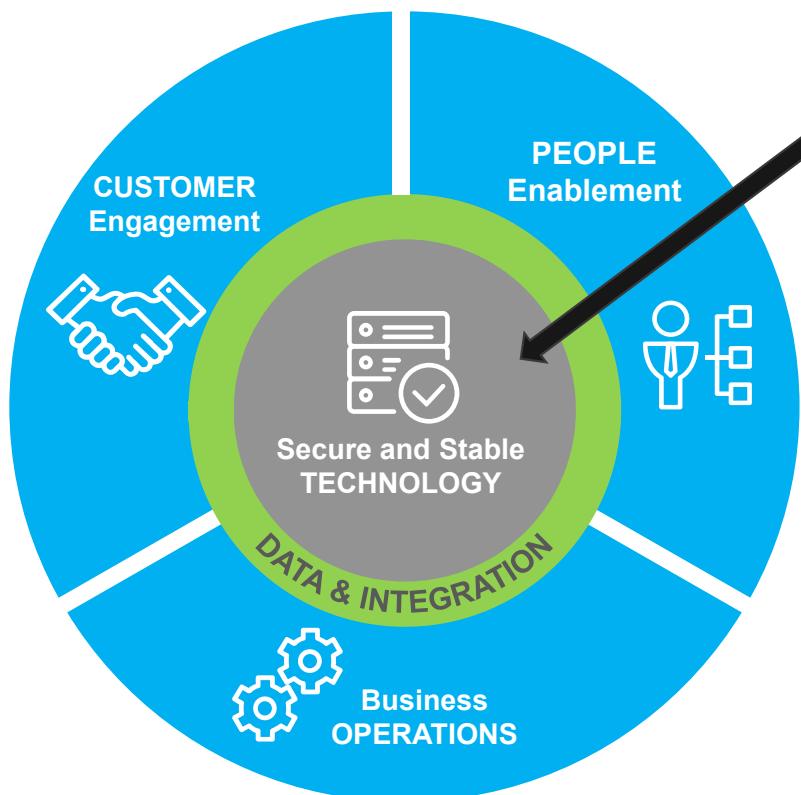


# DIGITAL STRATEGY: OVERVIEW

Setting the stage for transformation

# How We View Digital Transformation

Digital is not just about technology – it's about how an organization can use technology to enable and reach their goals.



## Secure and Stable Technology

All of the people, processes and systems necessary to maintain the systems, infrastructure and security.

## Customer Engagement

How you leverage technology to engage your customers and external stakeholders.

## Business Operations

Using the right technologies and systems to transform how you operate, creating higher levels of efficiency and accuracy in day-to-day activities.

## People Enablement

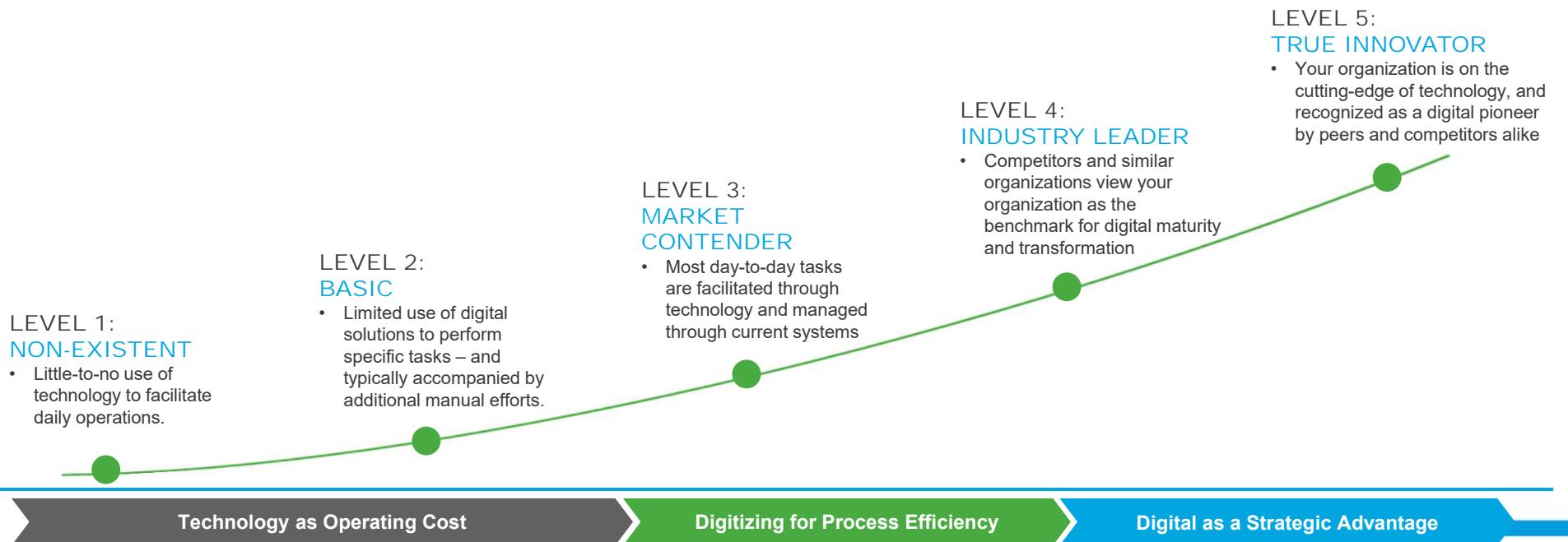
Giving your teams the digital tools, capabilities and culture to be more effective and increase value contribution on a regular basis.

## Data & Integration

Capturing and using data to create better insights, deliver more personalized experiences and improve decision making .

# The Digital Journey - Where are you & where do you need to be?

A key output of the Digital Strategy Roadmap is determining the target level of maturity for each domain that is needed to support your business strategy



# Digital Capabilities – Executive Survey

As part of the executive survey, RSM asked middle market executives to identify the key digital technologies being discussed at their firms

## Digital Transformation Priorities

### Primary Responses:



**Enterprise Mobility**



**Mobile Technologies**



**Artificial Intelligence (AI)**

### Other Notable Responses:



**Cloud**



**Blockchain**



**Data & Analytics**



**ERP**



**Cyber Security**



**Robotic Process Automation (RPA)**



**CRM**



**Digital Marketing**



**Internet of Things (IoT)**



# WHAT DOES SECURE AND STABLE MEAN?

# 2020 table stakes

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## Apps Delivered Where and When Needed

Always On VPN

Application Proxy

Cloud App Delivery

Virtual Desktops / Remote Apps

## Identity Management

Single Sign On

Conditional Access

Multifactor Authentication

Identity Governance

Self Service Password Resets

## Secure Endpoints

Comprehensive Patching

Vulnerability Management

Endpoint Detection and Response

Data Loss Prevention

## Privacy

Privacy Training

Understand your Responsibilities

Regular Monitoring / Assessments

Contractual Obligations

## Educated and Suspicious Workforce

Security and Awareness Training

Measure Effectiveness

Culture of Awareness

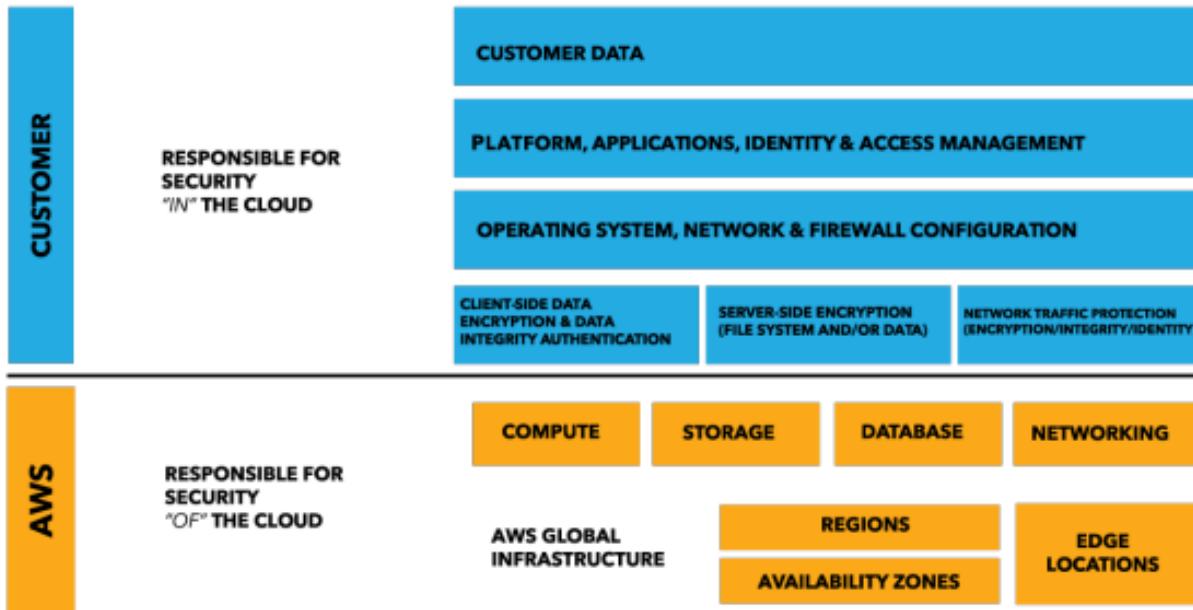
Manage Shadow IT



# APPLICATION DELIVERY

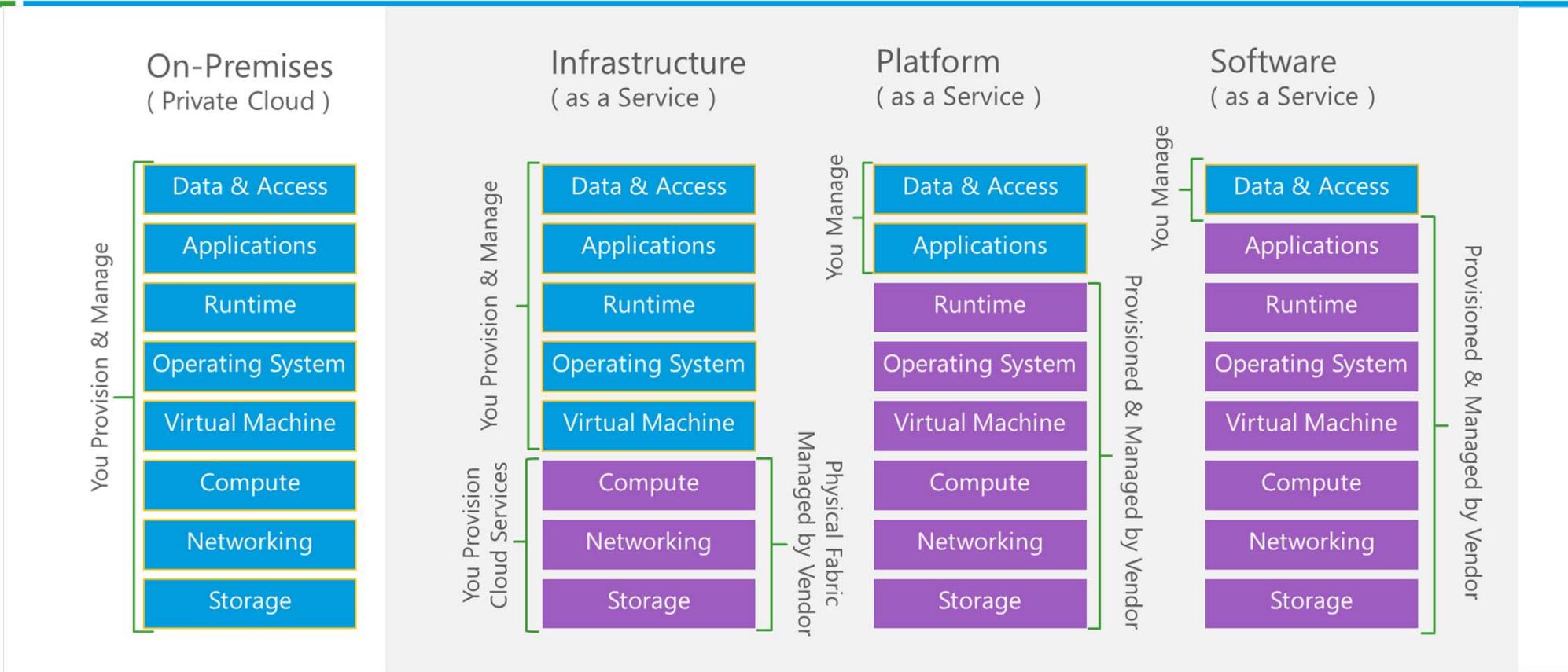
Increased secure access in a mobile and remote environment

# Cloud and security



All cloud providers utilize a shared responsibility model

# On Prem vs Cloud Responsibilities



# IDENTITY

Strengthening stable environment

## Why identity matters

Data tells us the frequency and intensity of attacks is rising



81% of network intrusions are due to compromised user credentials!

**FM1**      What is the source of this slide?

Franko, Matt, 7/28/2020

# Authentication...something you KNOW

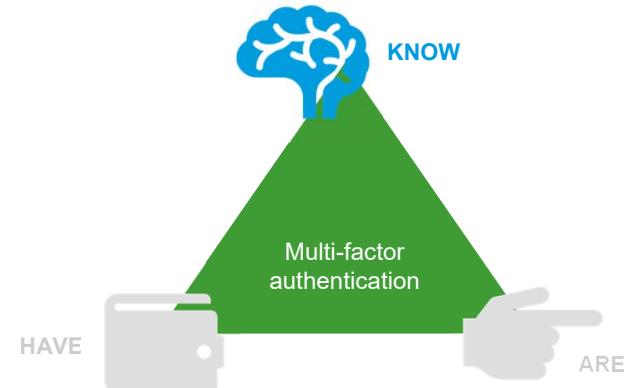
## Username and Password

### Pros:

- Simple
- Built into various solutions

### Cons:

- Can be shared
- Can be compromised
  - Breach
  - Brute force
  - Social engineering
  - Phishing



# Authentication...something you **ARE**

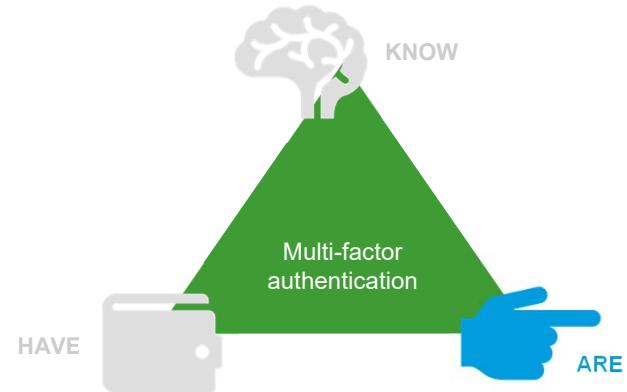
Biometric – Fingerprint or facial recognition

Pros:

- Simple for users
- Built in to newer platforms (Windows, Mobile)

Cons:

- Limited to newer platforms
- Can be compromised: simple implementations can give a false sense of security.



# Authentication...something you HAVE

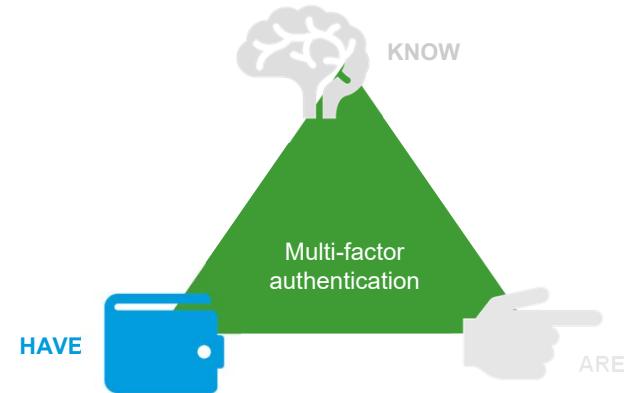
Tokens, SMS Text, or Mobile Apps

Pros:

- Lots of options
- Widespread support

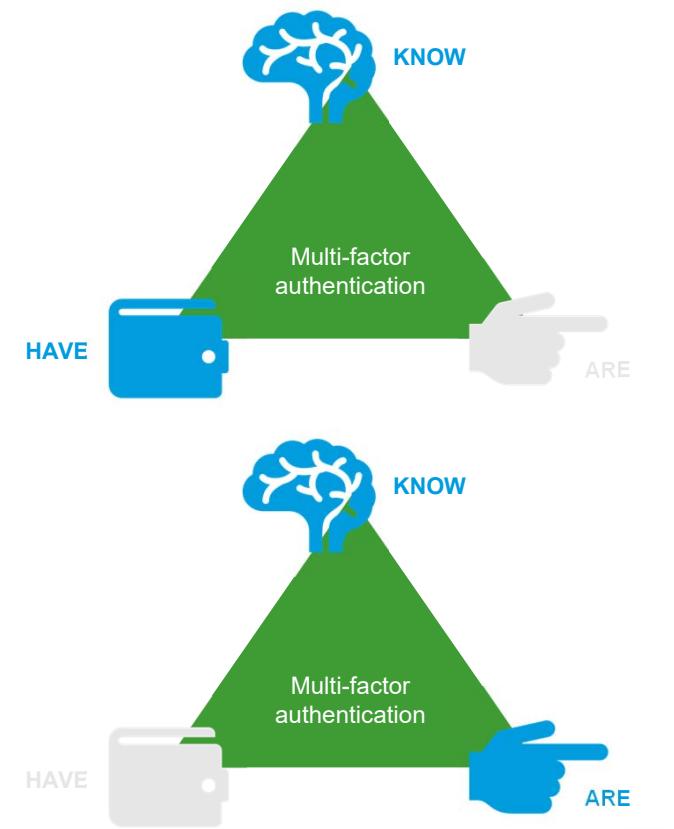
Cons:

- Tokens can be lost or stolen
- Mobile devices require SMS or data coverage
- Not useful by itself
- Time delay to receive one time code or SMS

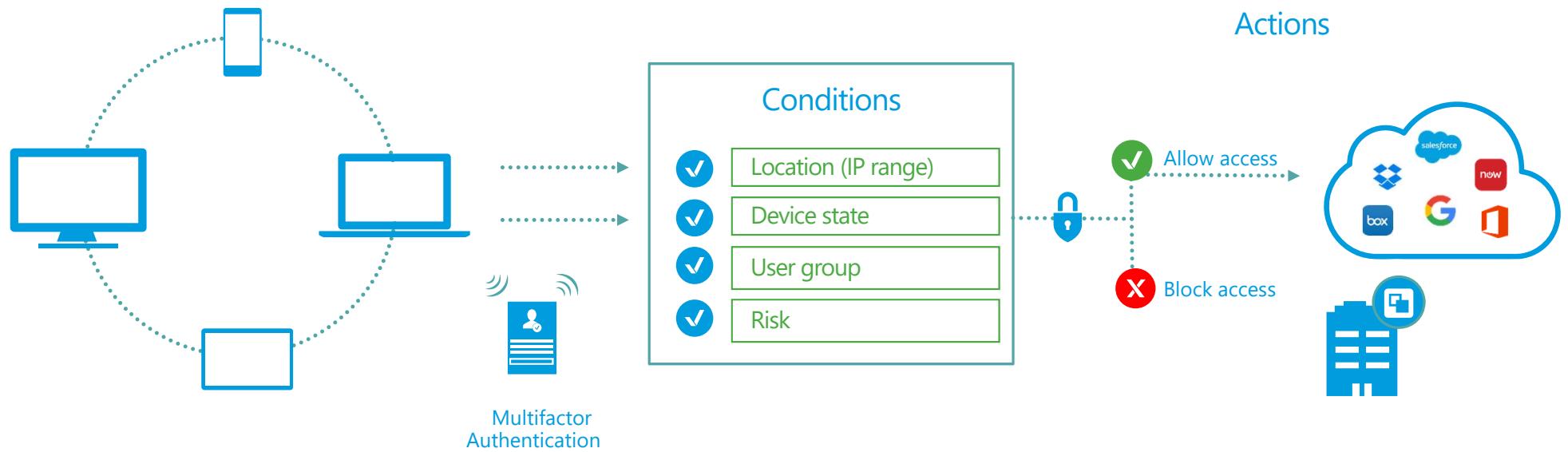


## Authentication: multifactor

Eliminates many of the weaknesses present in the single factors.



# Conditional access



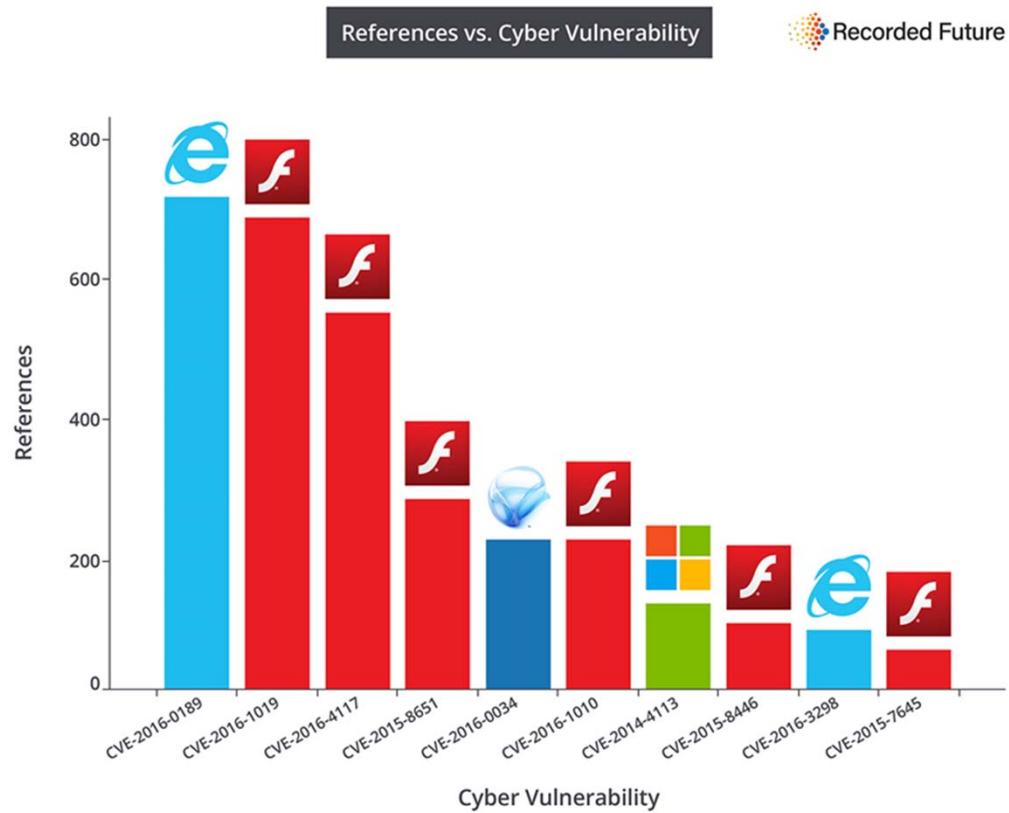
# SECURE ENDPOINTS

## Secure endpoints

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# Patch your devices



- Update software regularly
  - Apply patches consistently
- It's not just Microsoft!
- 6 out of the top 10 vulnerabilities used in breaches and ransomware in a recent year were not Microsoft patches.
- Measure effectiveness of patching with vulnerability management program.

# Secure devices and protect data at the app level

## Data control / isolation

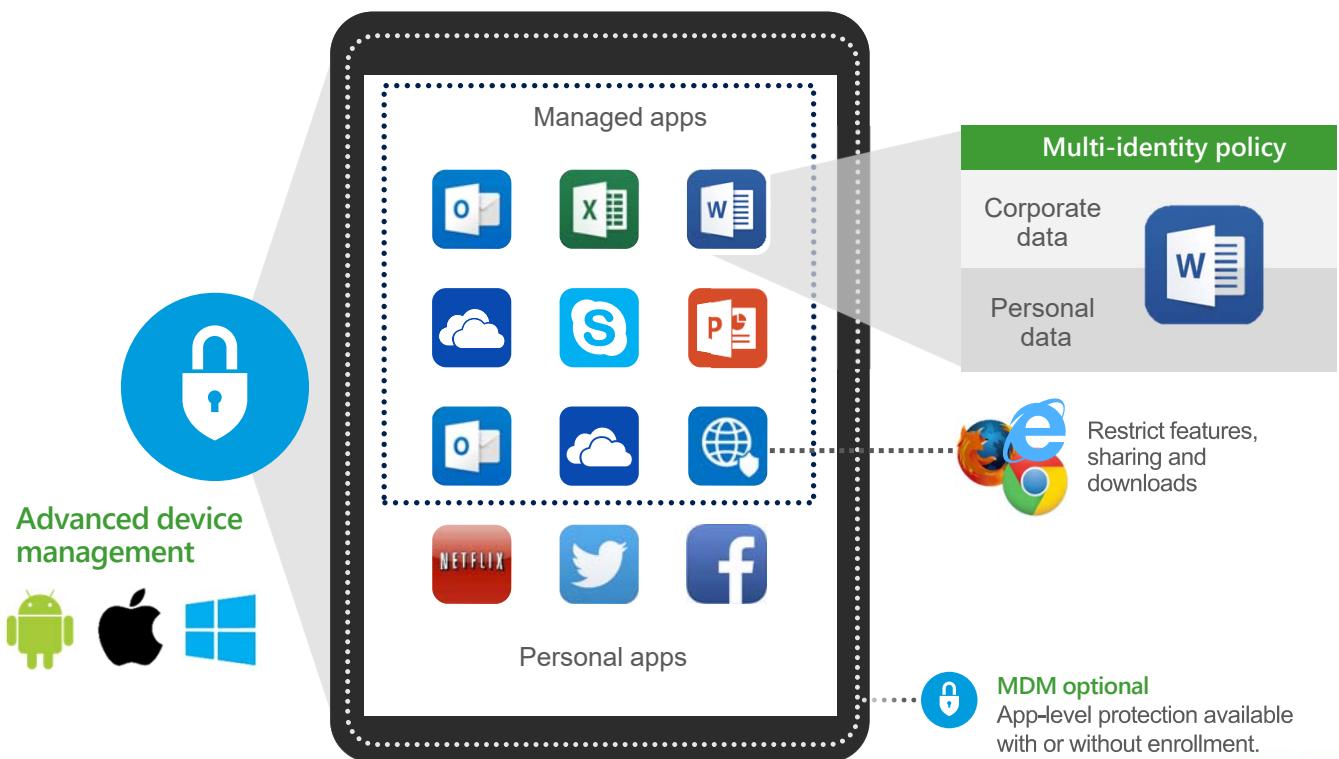
Control company data after it has been accessed, and separate it from personal data.

## Device security configuration

Enforce device encryption, password/PIN requirements, jailbreak/root detection, etc.

## Restrict apps and URLs

Restrict access to specific applications or URL addresses on mobile devices and PCs.



# Advanced Endpoint Detection and Response

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Records telemetry data on all endpoints.



Uses that telemetry data to detect suspicious behavior.



Security analysts review alerts 24/7, and remove false positives, only alerting to actual threats

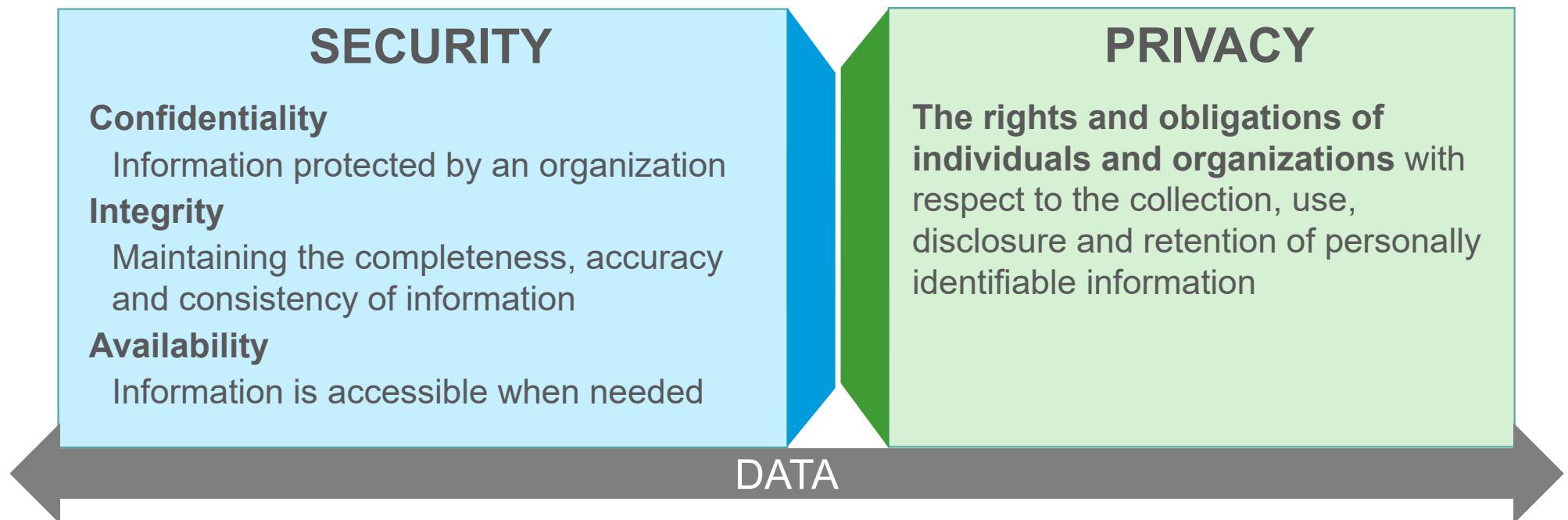


Can automate responses to threats, making the most of limited tech services staff time.

# PRIVACY

# Data security vs. data privacy

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“All human beings have three lives:  
public, private, and secret.”

“ ”

-Gabriel García Márquez, *Gabriel García Márquez: A Life*

# Privacy 101

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## How many privacy regulations are you familiar with?

- Children's Online Privacy Protection Act (**COPPA**)
- Health Insurance Portability and Accountability Act (**HIPAA**)
- Health Information Technology for Economic and Clinical Health Act (**HITECH**)
- Payment Card Industry Data Security Standards (**PCI-DSS**)
- California Consumer Protection Act (**CCPA**)
- General Data Protection Regulation (**GDPR**)
- Brazilian General Data Protection Law (**LGPD**)
- Gramm-Leach-Bliley Act (**GLBA**)
- Family Educational Rights and Privacy Act (**FERPA**)
- Sarbanes-Oxley Act (**SOA**)
- USA PATRIOT Act
- Homeland Security Act
- Bank Secrecy Act (**BSA**)
- FTC Security Rule
- FACTA Red Flags Program
- State Executive Orders

## Privacy – why now?

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Lt. Commander Zuck in court after his plan to study humans in greater detail backfires



## Privacy – why now?

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“Information that identifies, relates to, describes, is capable of being associated with, or could reasonably be linked, directly or indirectly, with a particular consumer or household.”

**CCPA Definition; Personal Information**

## Are you the slowest zebra?

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## What's the risk?

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## How to not be the slowest privacy zebra...during a pandemic

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- Review
- Understand
- Determine
- Implement



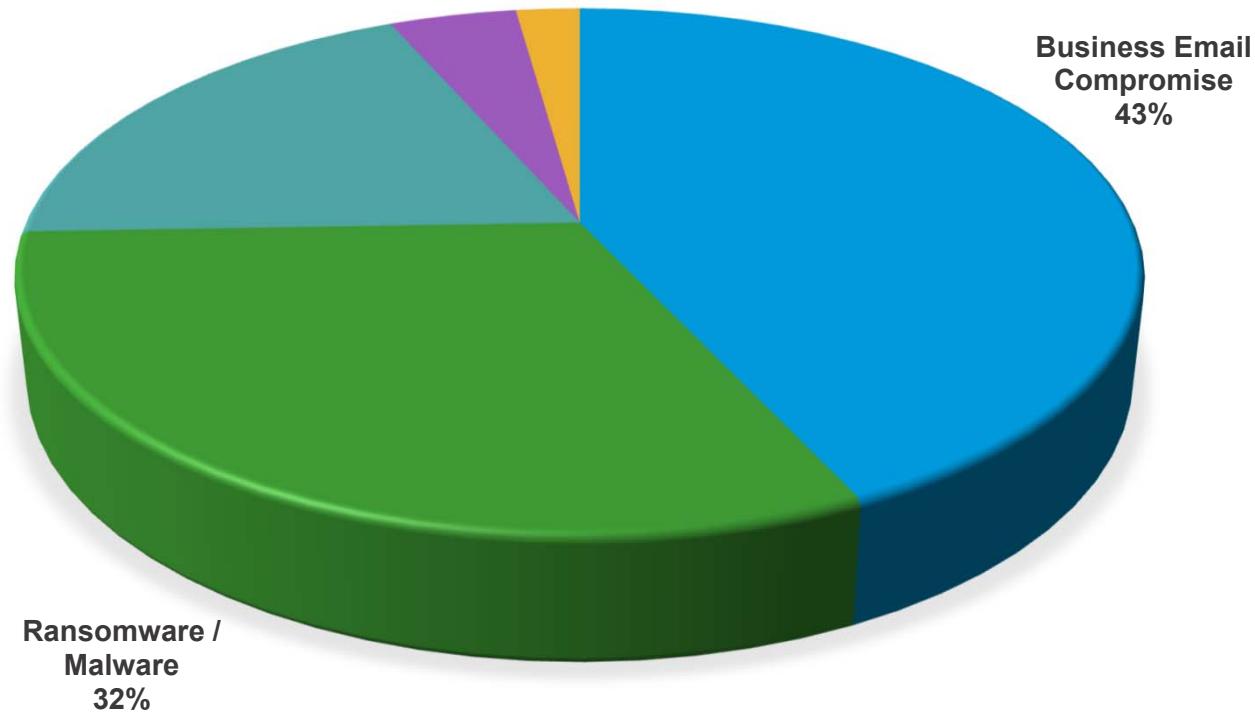
**\*Keep out of the spotlight, stay in the limelight\***



# EDUCATED AND SUSPICIOUS WORKFORCE

## Cyber incident – attack types 2019

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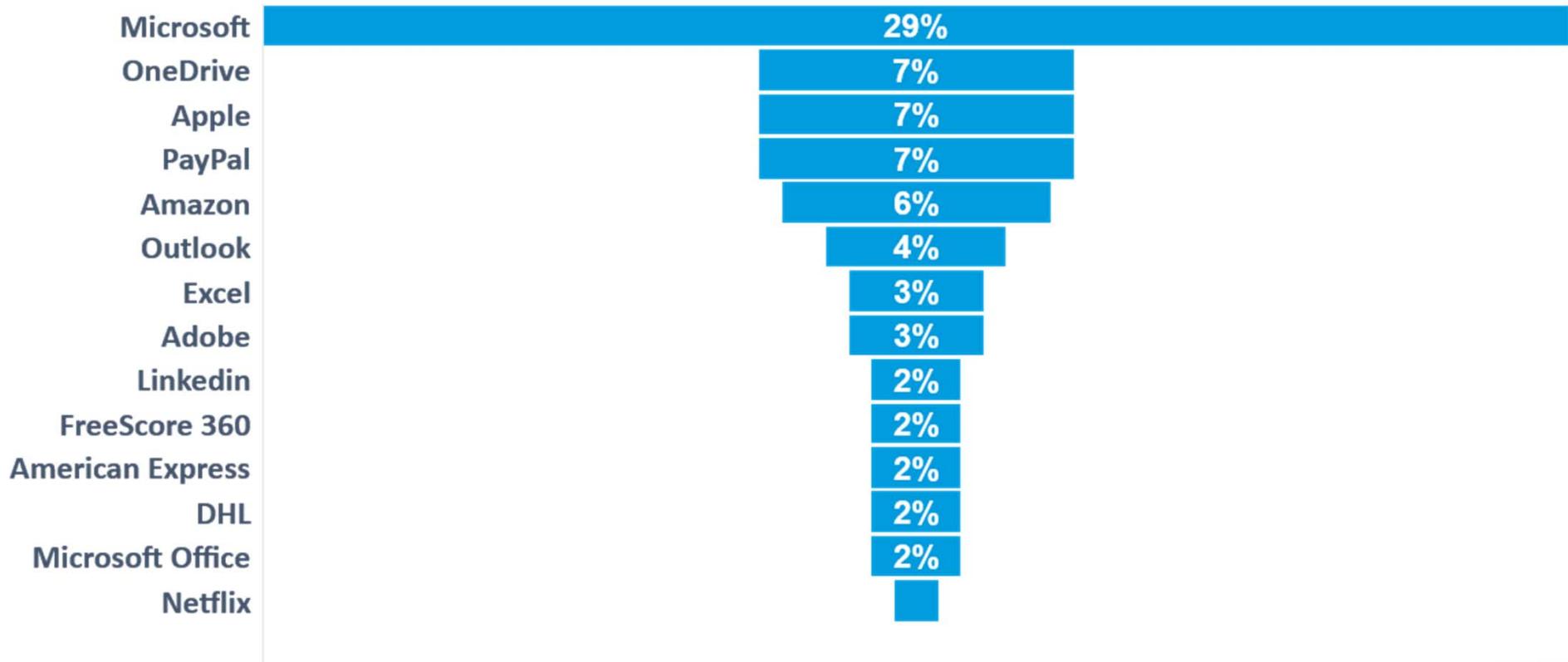


Majority of Cyber-Incidents  
can be prevented by  
appropriate employee  
behavior.

Source: Cyber incidents handled by RSM 5/1/2019 – 10/31/2019

## Most common brands mentioned in phishing attacks

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## Train your employees

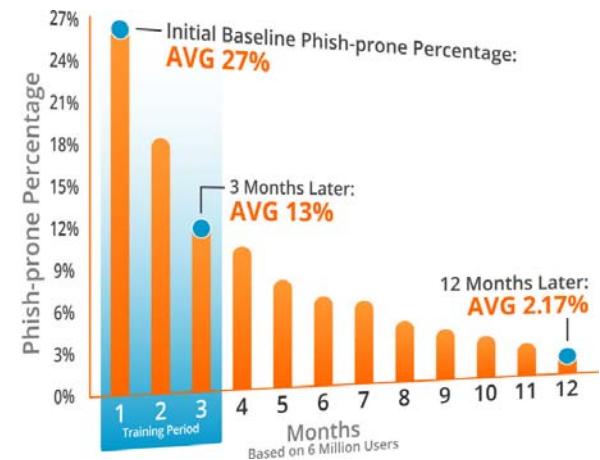
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- Policies and Procedures
  - Incident Response Plans
- Recognize suspicious emails
- Safe browsing habits
- Of security breaches caused by an employee, how many were unintentional?
- ...77% were unintentional.

## Security awareness: measure effectiveness

**Making sure your employees understand the mechanisms of spam, phishing, spear phishing, malware, ransomware and social engineering and can apply this knowledge in their day-to-day job.**

- Baseline testing to assess the Phish-prone percentage of your users through a simulated phishing attack.
- Online security awareness training content; including interactive modules, videos, games, posters and newsletters. Automated training campaigns with scheduled reminder emails.
- Reporting, showing stats and graphs for both training and phishing, ready for management.



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