



Microsoft 365 Information Protection

AGENDA

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Introduction



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Data Lifecycle

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**Information
Protection**

4



**App
Protection**

Microsoft 365 Business Premium

One solution to run your business securely, from anywhere

Microsoft 365 Business Standard (Office apps and services, Teams)



Microsoft Defender for Office 365

Intune

Azure AD Premium Plan 1

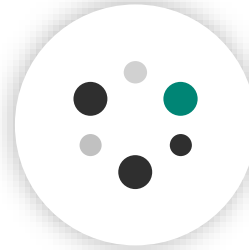
Azure Information Protection Premium P1

Device Antivirus

Autopilot

Windows Virtual Desktop license

Windows Upgrade rights



Collaborate in real time



Enable secure access to work apps



Protect against cyberthreats and data loss



Secure devices that connect to your data

Defender for Business brings enterprise grade information security to Microsoft 365 Business Premium

	PRE MDB	WITH MDB	
		Microsoft 365 Business Premium	Microsoft Defender for Business (MDB)
eDiscovery and Audits	eDiscovery	•	
	Litigation Hold	•	
Information Protection	Email Archiving	•	
	Information Rights Management	•	
	File classification/labeling	•	
	File tracking and revocation	•	
	Message Encryption	•	
Data Loss Prevention	Data Loss Prevention	•	
	Data App Security	•	
Email and Collaboration Security	Safe links	•	
	Safe Attachments	•	
	Anti-phishing	•	
	Windows device setup & management	• ¹	
Device management	Device health analytics	•	
	Mobile Device Management	•	
	Mobile App Management	•	
Identity and Access Management and Security	Risk based Conditional access	•	
	Multi-factor authentication	•	
	Centralized management	•	•
	Simplified client configuration	•	•
	Next-gen protection	•	•
	Attack Surface Reduction	•	•
	Network Protection	•	•
Device Security	Web Category blocking	•	•
	Endpoint detection and response	•	•
	Cross platform support (iOS/Android/Mac)	• ³	• ³
	Automated investigation and response	• ²	• ²
	Threat and vulnerability	•	•
	Threat intelligence	• ²	• ²

Enterprise-class technology



Identity & access management

Secure identities to reach zero trust



Threat protection

Help stop damaging attacks with integrated and automated security



Information protection

Locate and classify information anywhere it lives



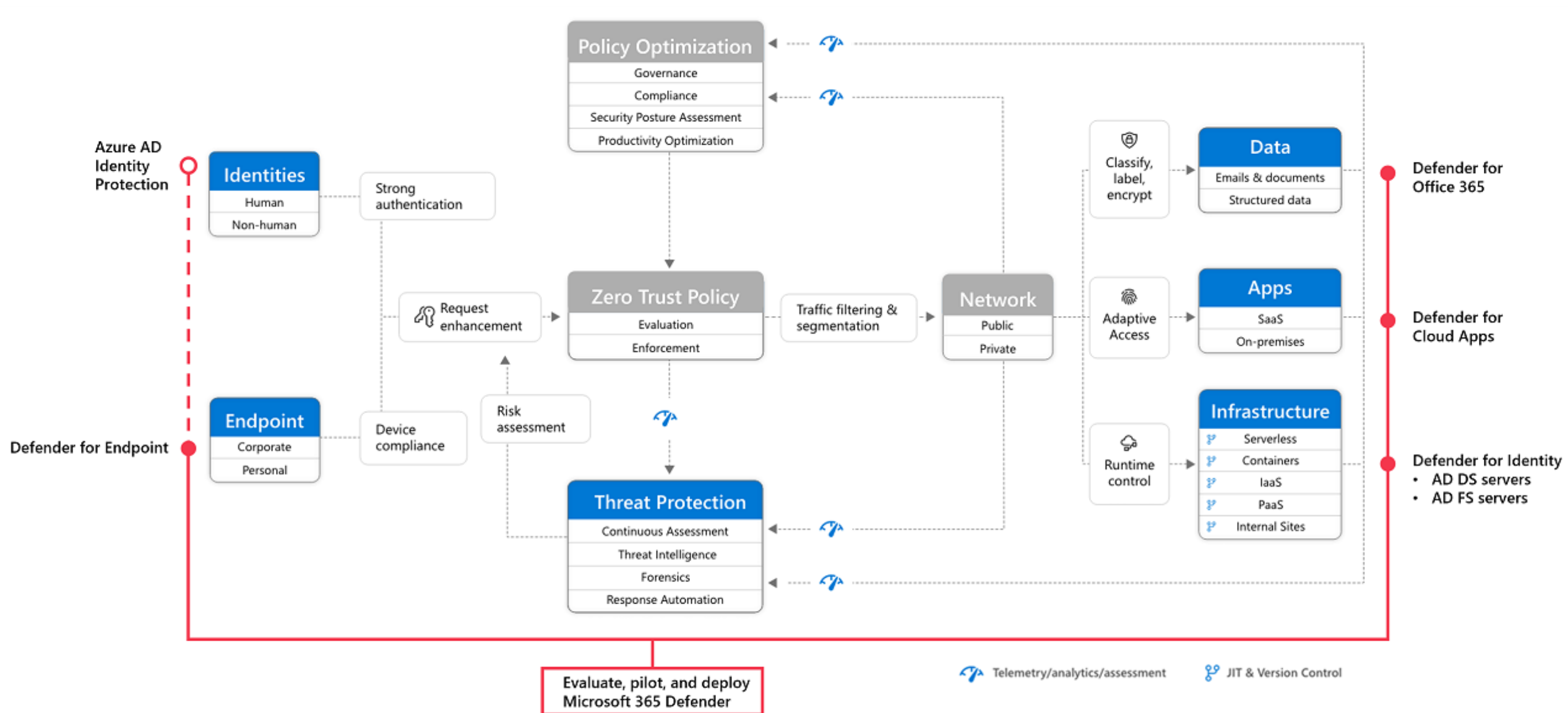
Security management

Strengthen your security posture with insights and guidance



Infrastructure security

Zero Trust security architecture

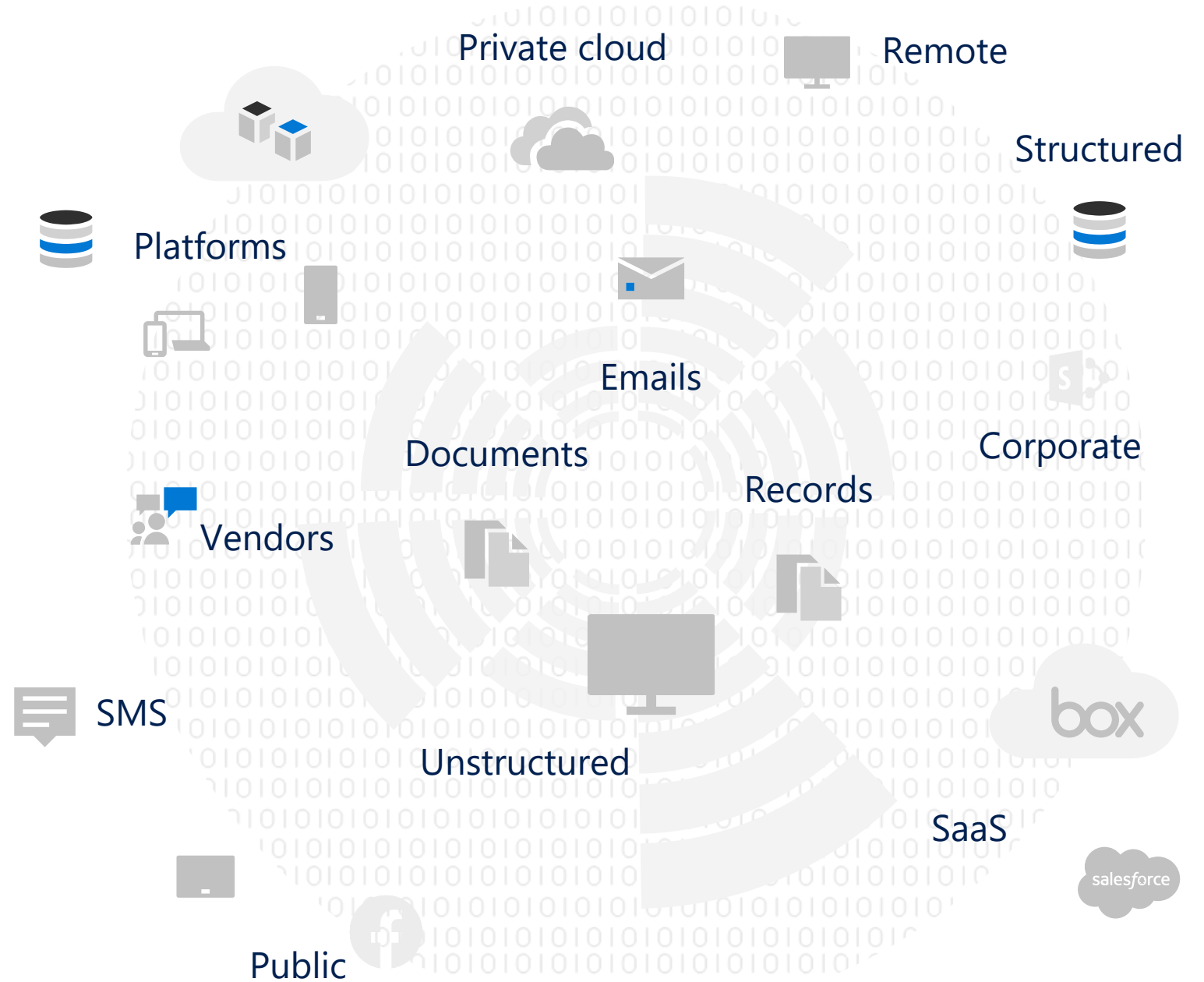




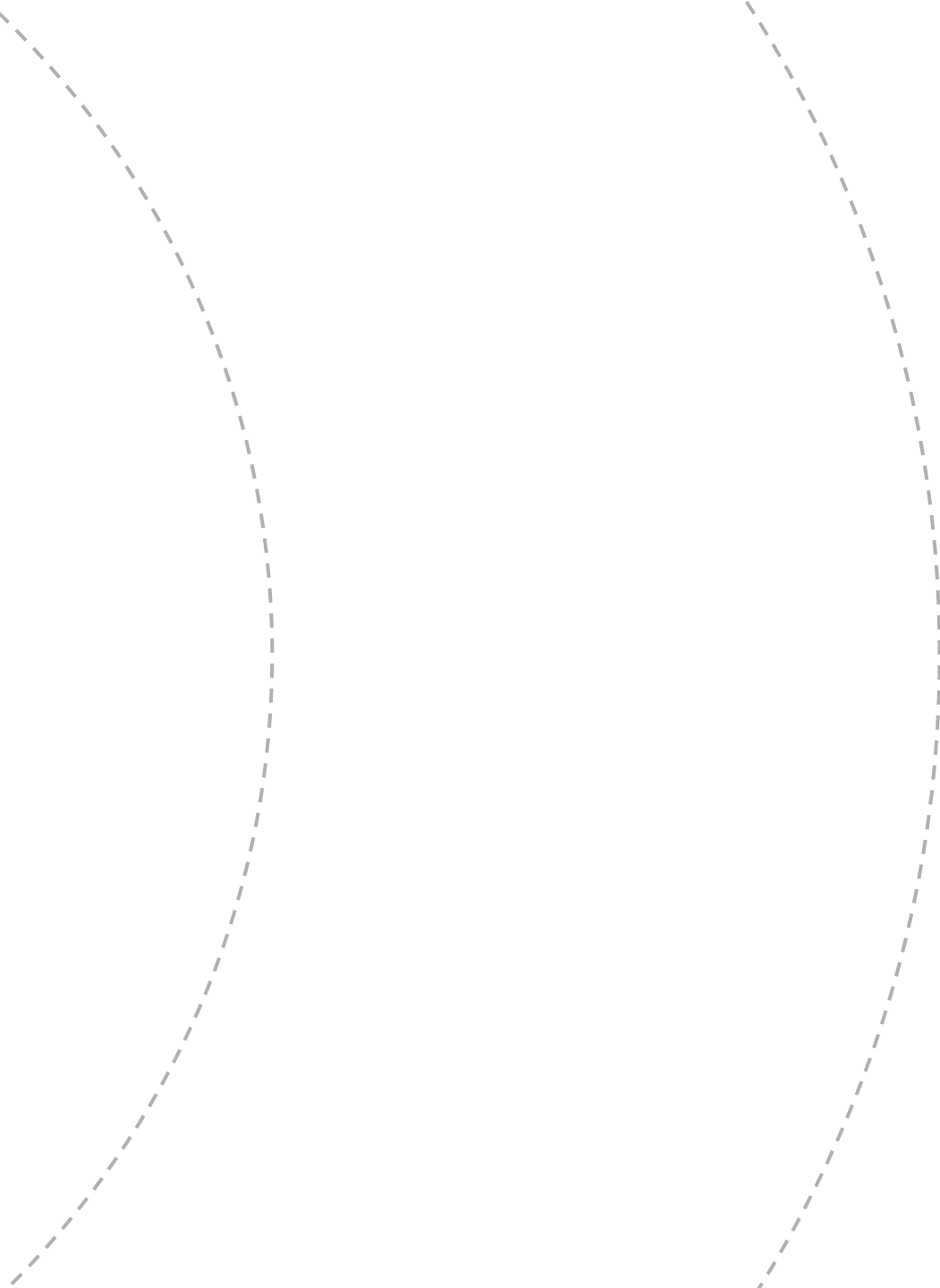
Data Lifecycle

DATA IS EXPLODING

It's created, stored, and shared EVERYWHERE



The Data Lifecycle





Data is created





Data is created



Data moves





Data is created



Data moves



Data leaves your company

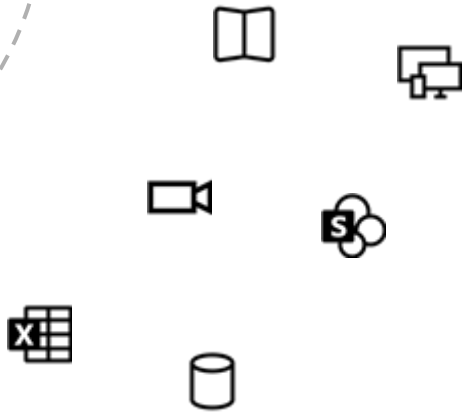




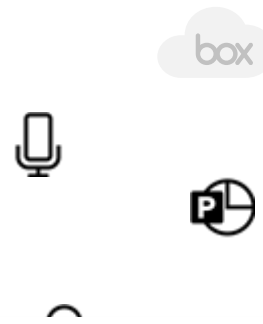
Data is created



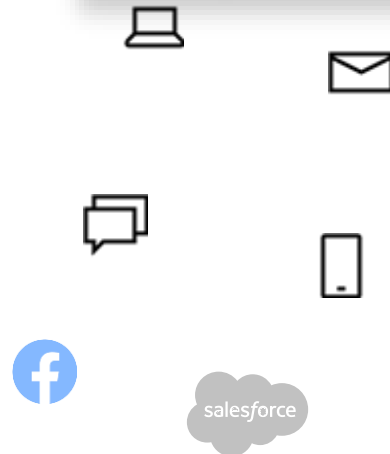
Know your Data



Data moves



Protect & Govern your Data



Data leaves your company



Prevent Data loss





Know your Data

What kinds of sensitive data do I have in my organization?

Where is it located?

What methods can I use to identify and classify it?

Data Classification Matrix

	Public data	Sensitive data	Confidential data
Risk degree	Low	Medium	High
Description	Data that can be either freely disclosed to the public or has does not have an impact on the company if it is published.	Information of medium importance, typically created for internal use only, not meant for public disclosure.	Highly sensitive data concerning either customers or corporate individuals, absolutely not meant for public disclosure.
Access rights	Low or nonexistent limitations	Moderate access, mostly available to people on a need-to-know basis (in case someone needs this data to do their job properly)	Highly selective case-by-case approved access under an NDA
Potential impact	The negative impact from this data type getting into the wrong hands or being published publicly ranges from non-existent to inconvenient at most.	The negative impact from this data type getting into the wrong hands or being published is on a moderate rate, meaning concerning, but not business-critical.	The negative impact from this data type getting into the wrong hands or being published is highly destructive, capable of creating both financial and lawful problems to the company.

Data Sensitivity Levels

Data classification helps an organization understand the value of its data, determine whether the data is at risk, and implement controls to mitigate risks.

Data classification also helps an organization comply with relevant industry-specific regulatory mandates such as SOX, HIPAA, PCI DSS, and GDPR.

Low Sensitivity	Medium Sensitivity	High Sensitivity
Public website content, press releases	Emails and documents with no confidential data	Financial records, intellectual property, authentication data

Data Sensitivity Best Practices

Since the high, medium, and low labels are somewhat generic, a best practice is to use labels for each sensitivity level that make sense for your organization. Two widely-used models are shown below.

Sensitivity	MODEL 1	MODEL 2
High	Confidential	Restricted
Medium	Internal Use Only	Sensitive
Low	Public	Unrestricted

Out-of-box sensitive info types



Microsoft 365 includes 200+ sensitive info types

For different countries, industries, or by information type



Sensitive information comes in many forms

Financial data, Personally Identifiable Information (PII)



Examples

- Croatia Personal Identification (OIB) Number
- EU Debit Card Number
- EU Passport Number
- US Drivers License Number
- Social Security Number

+ Create sensitive info type + Create Fingerprint based SIT

Name ↑

- ABA Routing Number
- ASP.NET Machine Key
- All Credential Types
- All Full Names
- All Medical Terms And Conditions
- All Physical Addresses
- Amazon S3 Client Secret Access Key
- Argentina National Identity (DNI) Number
- Argentina Unique Tax Identification Key (CUIT/CUIL)

Customer-specific sensitive info types



Business intellectual property

Business plans, product designs, confidential projects



Employee or customer information

HR Information, resumés, employment records, salary information



Highly confidential information

Mergers and Acquisition, workforce reduction



Examples

- Employee or customer numbers

<EMP-nnnnn>

<CUST-nnnnnn-NL>

- Specific keywords

<Project Enigma>

<Highly Confidential>

<Internal only>

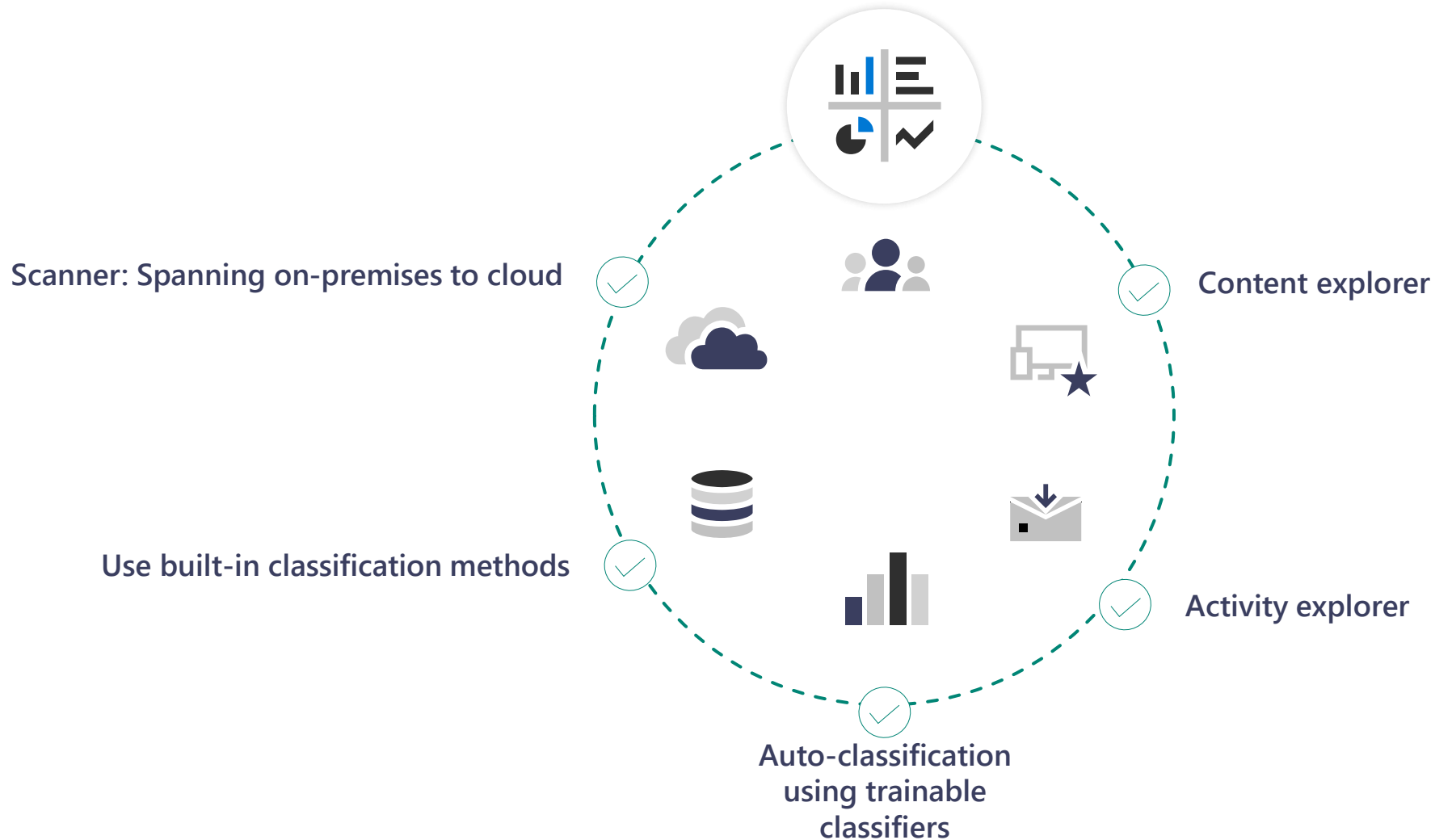
Technology: RegEx

Technology: Static Keywords



Flexible options to know your data

Understand what's sensitive, what's business critical & across your environment





Protect your Data

How can I protect my sensitive data?

Where can I protect my sensitive data?

How can I balance data security and productivity?

Protect your data using sensitivity labels

✔ Customizable

✔ Persists as container metadata or file metadata

✔ Readable by other systems

✔ Determines DLP policy based on labels

✔ Extensible to partner solutions



Manual or Automated Labels ✔

Apply to content or containers ✔

Label data at rest, data in use, or data in transit ✔

Enable protection actions based on labels ✔

Seamless end user experience across productivity applications ✔

Microsoft Information Protection

Protect your sensitive data – wherever it lives or travels



Discover

Scan & detect sensitive data based on policy



Classify

Classify and label data based on sensitivity



Protect

Apply protection actions, including encryption, access restrictions



Monitor

Reporting, alerts, remediations

Comprehensive



Devices



Apps



Cloud services



On-premises

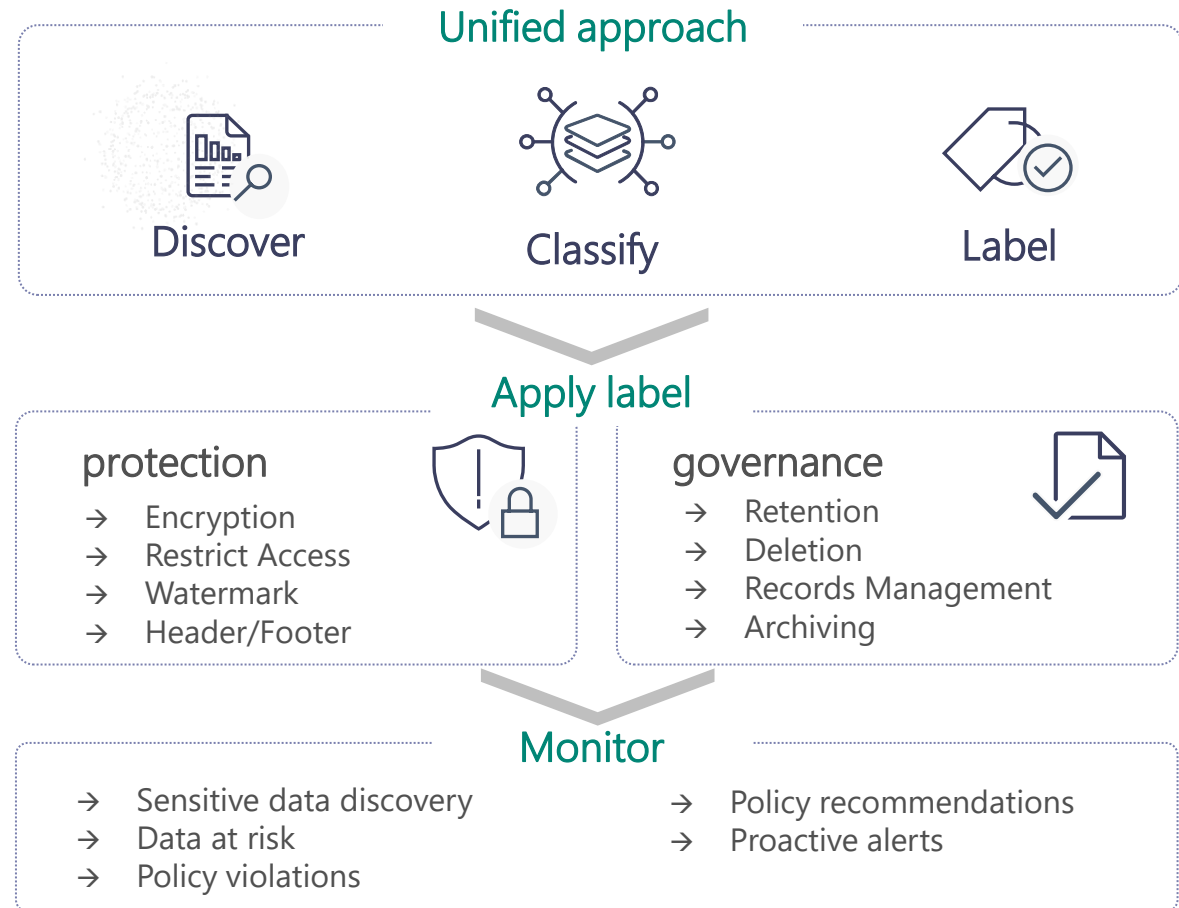
Data protection & data governance go hand-in-hand

Unified approach to discover, classify & label

Automatically apply policy-based actions

Proactive monitoring to identify risks

Broad coverage across locations





Prevent data loss

How can I prevent accidental sharing of sensitive data?

How can I ensure my employees get timely guidance?

Office 365 Data Loss Prevention

Detect, protect & monitor your sensitive information



Detect

Easily create policies that find sensitive content wherever it lies in Office 365



Protect

Stop accidental sharing and educate users



Monitor

Get visibility into how your data is being protected



Unified policy configuration & management

Centralized

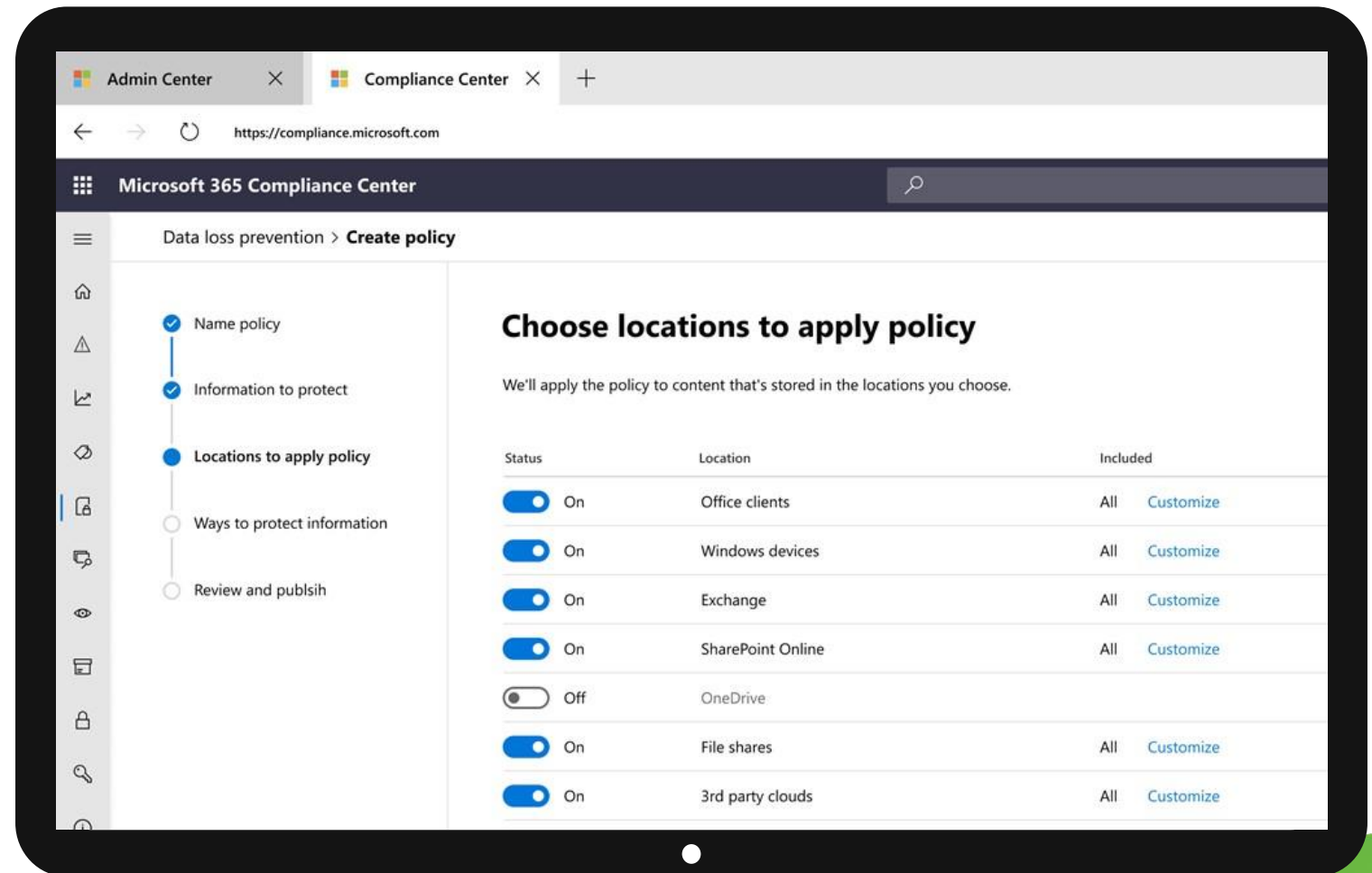
Single destination to configure policies for data protection and data governance, across locations

Customized

Customize conditions, rules and exceptions to granularly define policy actions

Consistent

Consistent enforcement using common policy engine



Message Encryption

File Home Send / Receive View Help Try the new Outlook off

New Email Delete Archive Move Reply Reply All Forward Move to: ? Unread/ Read Search People

Focused Other By Date ↑

Yesterday

Sunday

Mohamed Trabelsi
Test Encrypt
Mohamed Trabelsi Sun 2:44 PM

Last Week

Two Weeks Ago

Test Encrypt

Mohamed Trabelsi <Mohamed.Trabelsi@Tzamon.ly>
To: Mohamed.trabelsi91@outlook.com

Encrypt-Only - This message is encrypted. Recipients can't remove encryption.
Permission granted by: Mohamed.Trabelsi@Tzamon.ly

Reply Reply All Forward

Sun 7/30/2023 2:43 PM

Encrypt message

Accidental data loss or data breach

Northwind uses occasionally use a password on an excel spreadsheet to guard sensitive info like salaries.

But these security measures are used inconsistently. Lots of documents are emailed around or saved on USB keys without any protections. **Anyone can download a confidential document and leave the company.**



Over 80%

of small and medium businesses handle PII data.¹

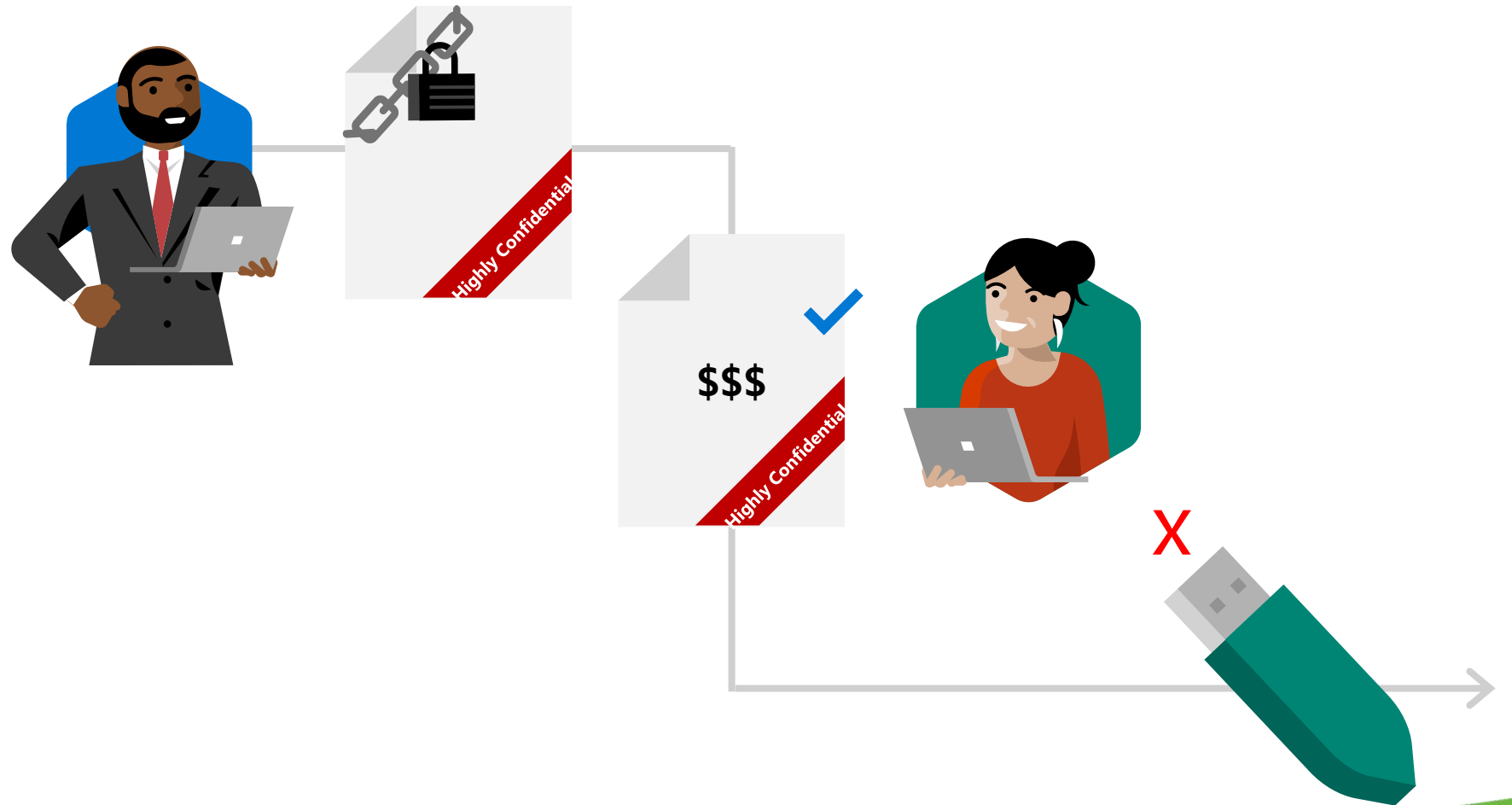
¹Source: Microsoft Internal Research of SMBs (2-299 employees)

Secure sensitive data

Adrian creates the company's sales forecast and classifies it as "Highly Confidential." As Northwind Traders is now using **Microsoft 365 Business Premium**, "Highly Confidential" files are **automatically encrypted**, and only accessible to company employees.

Laura, a Northwind Traders salesperson, attempts to open the file. Microsoft 365 Business Premium verifies that she is a Northwind Traders employee and decrypts the file for her.

Even if any employee leaves the company, and stores the document on a personal device, they cannot access it because the document access is tied to their work credentials.

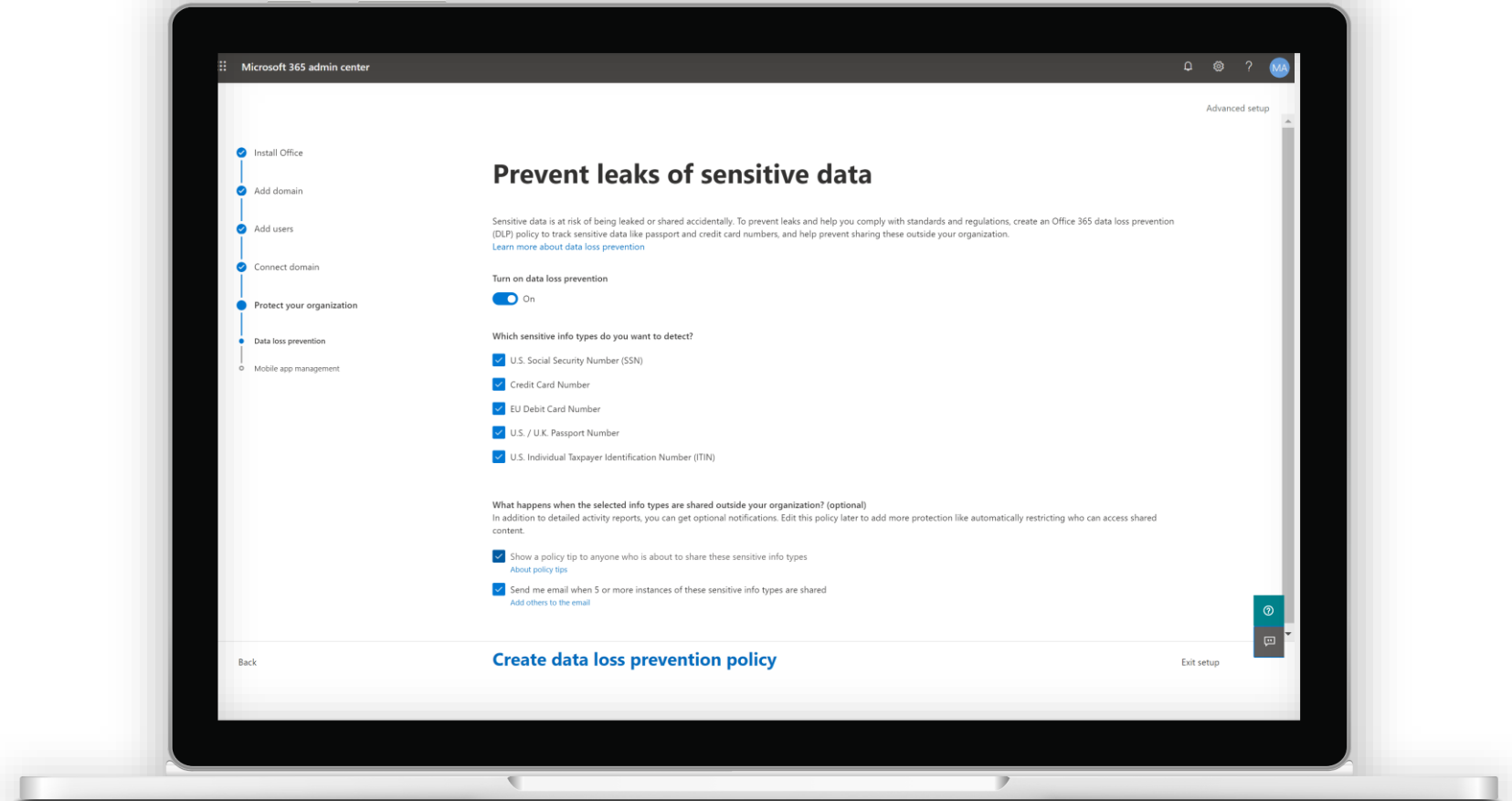


Secure sensitive data

With **Microsoft 365 Business Premium**, you get advanced capabilities like **Data Loss Prevention** and **Azure Information Protection**, to help classify and protect sensitive data like customer or employee information, confidential business data, social security numbers, credit card numbers and more.

Over 55%

SMBs say they are concerned about employees leaving their company with data on personal devices.¹





Managing Mobile Devices

Managing mobile devices – two approaches

Phones

Tablets



Mobile Application Management (MAM)

- Commonly used for personal devices or BYOD (Bring Your Own Device scenario)
- No Device Enrollment required
- Company manages the security of only those applications that are enrolled

Key capabilities



Secure corporate data within apps



Report app inventory & usage



Remove corporate data

Administration

Managed via setup wizard and simplified UI

Mobile Device Management (MDM)

- Commonly used for total management of company-owned devices
- **Device Enrollment Required**
- Company manages the security of the entire device

Key capabilities



Provision settings, certs, profiles



Advanced policy controls



Report & measure device compliance

Administration

Managed via Intune admin center
Additional steps to set up (provision certificates, etc)

<https://docs.microsoft.com/en-us/intune/ios-enroll>

<https://docs.microsoft.com/en-us/intune/android-enroll>

App Protection Policies (APP)



Multi-identity awareness

Targets corporate accounts, not personal and unmanaged



Conditional launch

Device health
OS version
App version/SDK
Device model or manufacturer



Access requirements

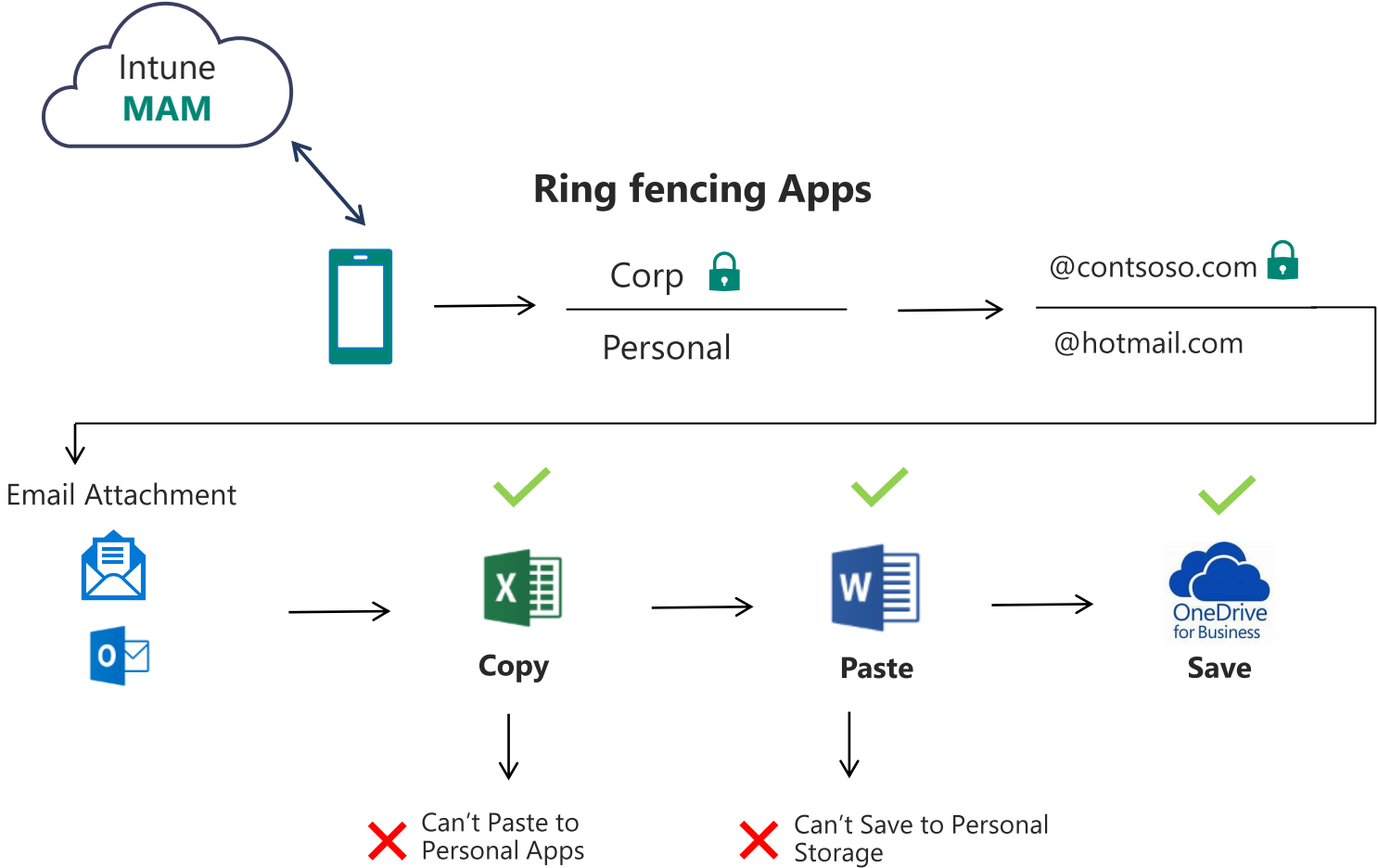
PIN
Biometrics
Credentials
Inactivity timers



Data protection

Between apps
Encryption
Transfer web data
Selective wipe

Mobile Application Management (MAM) for Personal or BYOD devices



Intune MAM does two things without requiring Device Enrollment

- Separates company managed apps from personal apps, and set policies on how data is accessed from managed apps
- Ensures corporate data can't be copied and pasted to personal apps within the device

Work data on personal devices



A Northwind Traders marketing manager is using her personal phone to check company email. She receives a confidential business plan and saves it for later reference. **She accidentally saves to a personal share which is not secure.**

64% of SMBs allow employees to access work data on personal phones and computers.¹

¹Source: Microsoft Internal Research of SMBs (2-299 employees)

Protect work data on personal devices



With Microsoft 365 Business Premium, you can set up Intune App Protection Policies, so work apps can be separated from personal apps. Administrators can specify that work documents and attachments are only saved on authorized and secure work share like OneDrive for Business, safeguarding sensitive work information.

58%

of employee devices on average are configured with proper security protocols and fewer than **1 in 5** saying that all employees undergo security training.¹

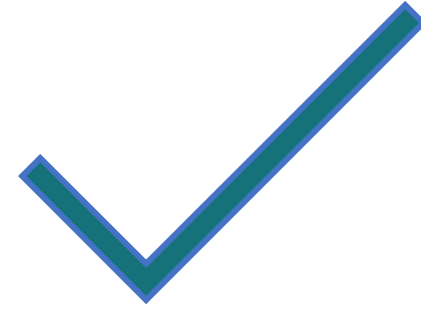
¹Source: A commissioned study conducted by Forrester Consulting on behalf of Microsoft, October 2019 survey of SMBs (1-499 employees)

Unauthorized access to work data



Company employees need access to work data as they work from home or on the go. However, bad actors outside the circle of trust may try to **gain access to work information, for example by stealing passwords and trying to gain access to the work data from another country.**





Thank You