
Trainable Classifiers

Bringing machine learning to
data classification





Know your Data

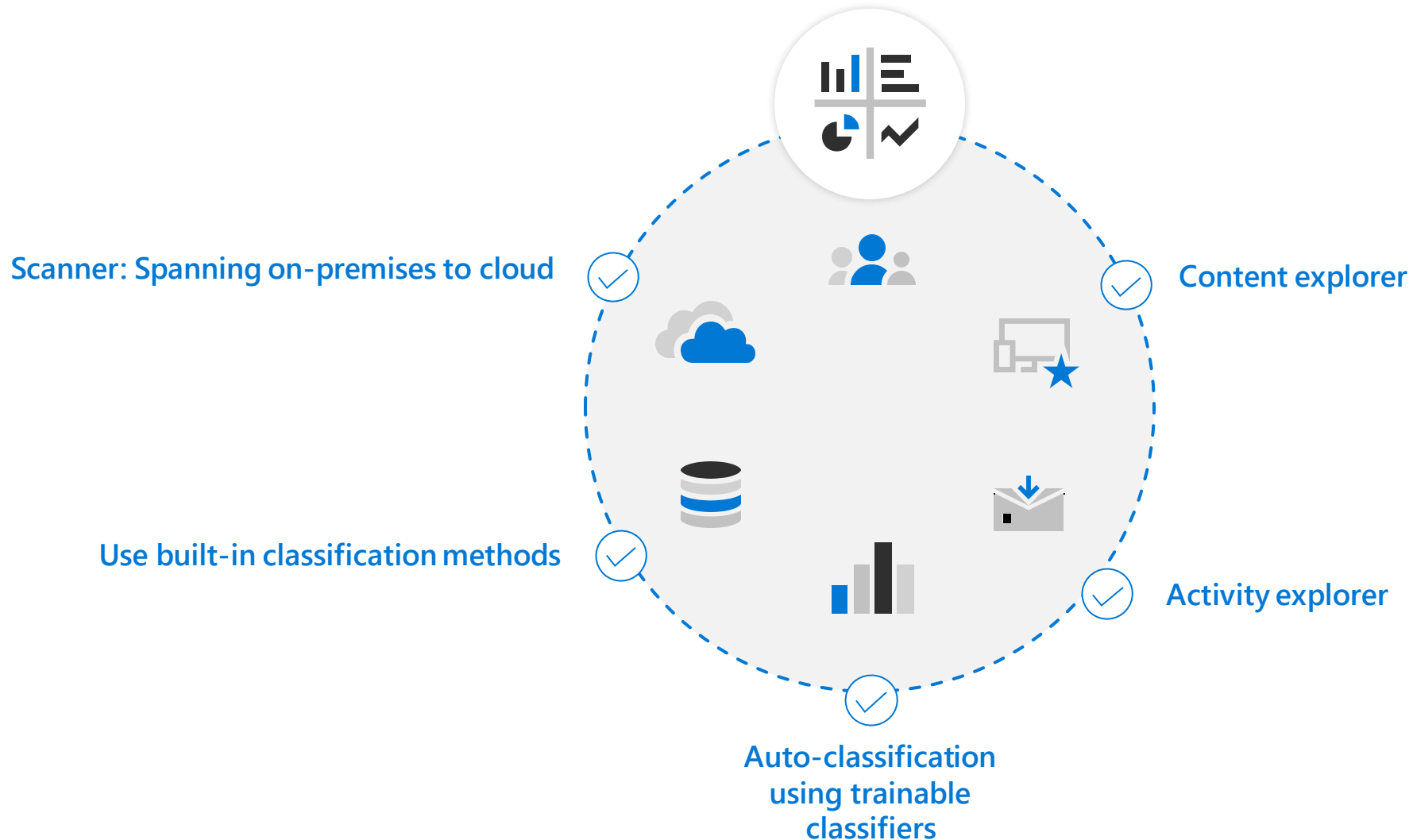
What methods can I use to classify my data?

Where can I classify my data?

How can I see what happens to my data over its lifecycle?

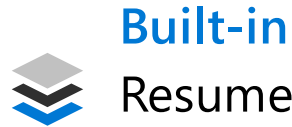
Flexible options to know your data

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



Trainable classifiers

Leverage machine learning to automatically classify unique data



Built-in

Resume, source code, and more provided out-of-box



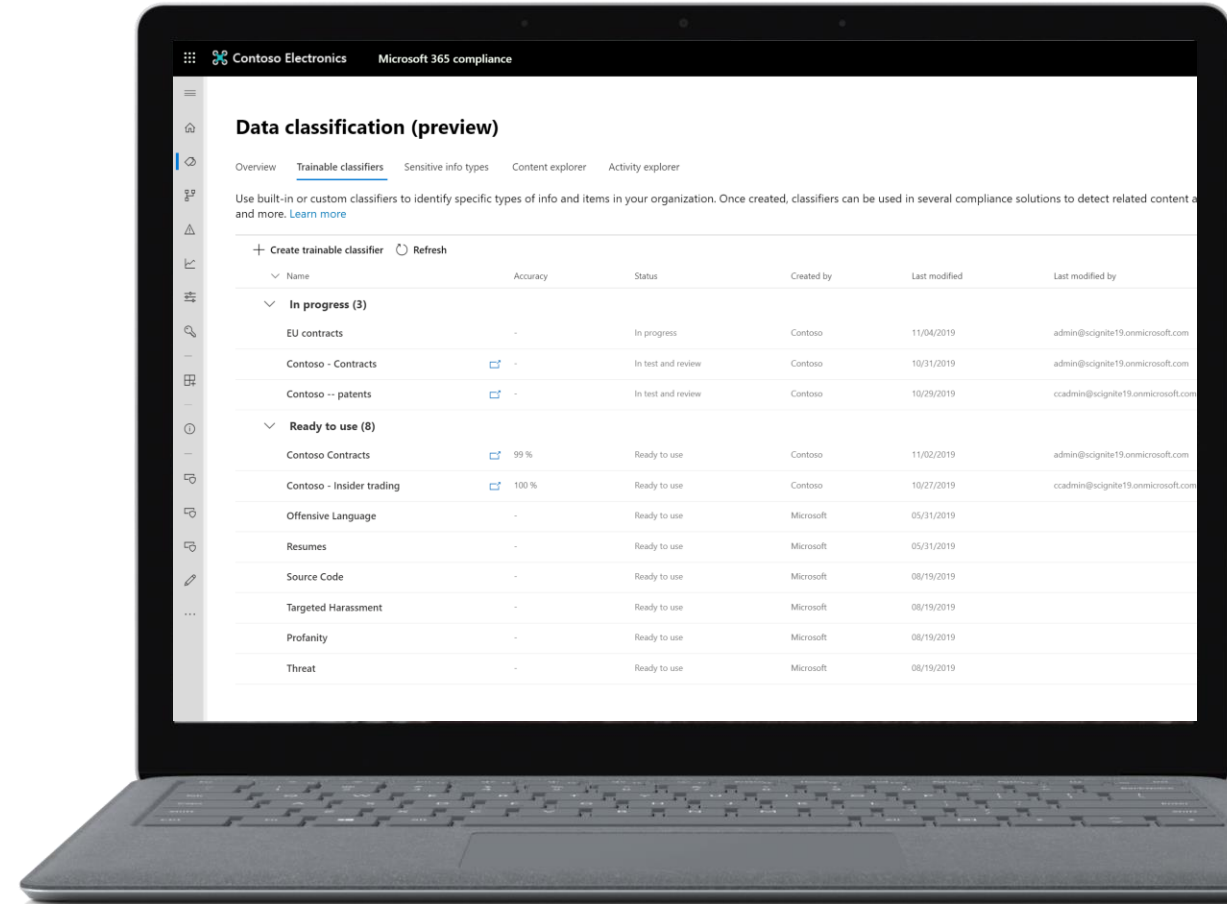
Build-your-own

Train the system to look for specific types of data



Integrated

Attach to sensitivity and retention labels and Communication Compliance with associated policies



5 Built-in Classifiers

Resume: Detects written accounts of an applicant's personal, educational, and professional qualifications and experience

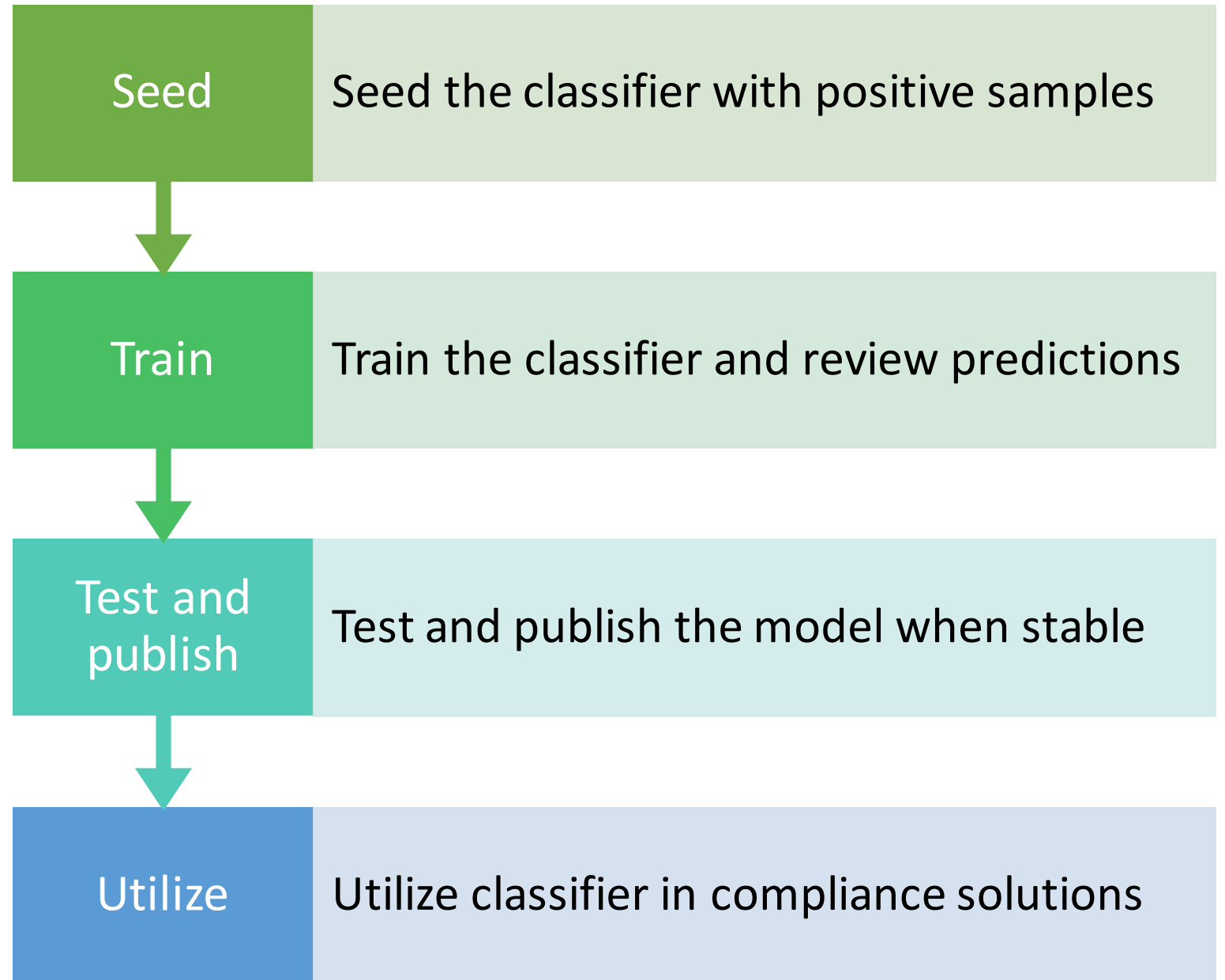
Source Code: Detects a set of instructions and statements written in the top 25 computer programming languages of GitHub

Threat: Detects a specific category of offensive language related to threats to commit violence or do physical harm/damage to a person/property

Harassment: Detects a specific category of offensive language related to offensive conduct targeting one or multiple individuals regarding race, color, religion, national origin, gender, sexual orientation, age, disability and genetic information

Profanity: Detects a specific category of offensive language that contains swear words or vulgar language

Build your own trainable classifier



Sample categories

Legal documents

- Attorney Client Privilege
- Closing Sets
- Statement of Work

Strategic business documents

- Merger & Acquisition
- Deals
- Business plans
- Marketing plans
- Intellectual Property
- Patents
- Database information
- Software design documents

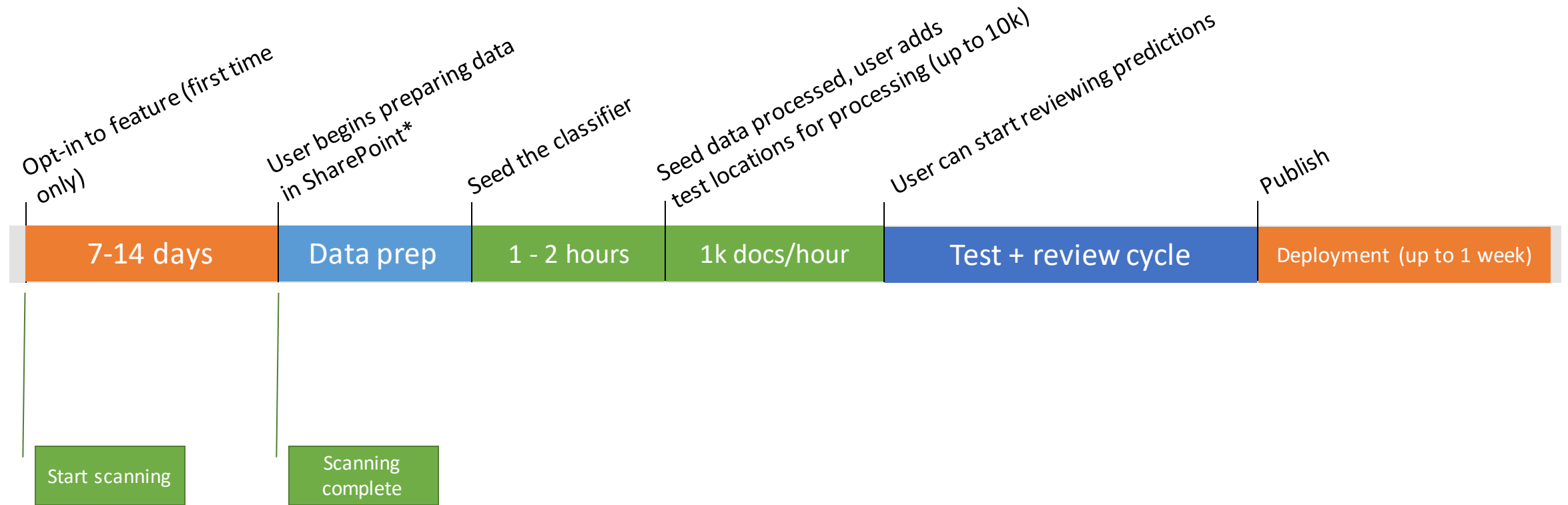
Pricing information

- Quotation
- Work orders
- Bidding documents
- Pricelist

Financial information

- Organizational investments
- Quarterly or annual results

Custom classifier timelines





*During **Data prep**, indexing a new SharePoint site and/or files can take **up to 1 day**.

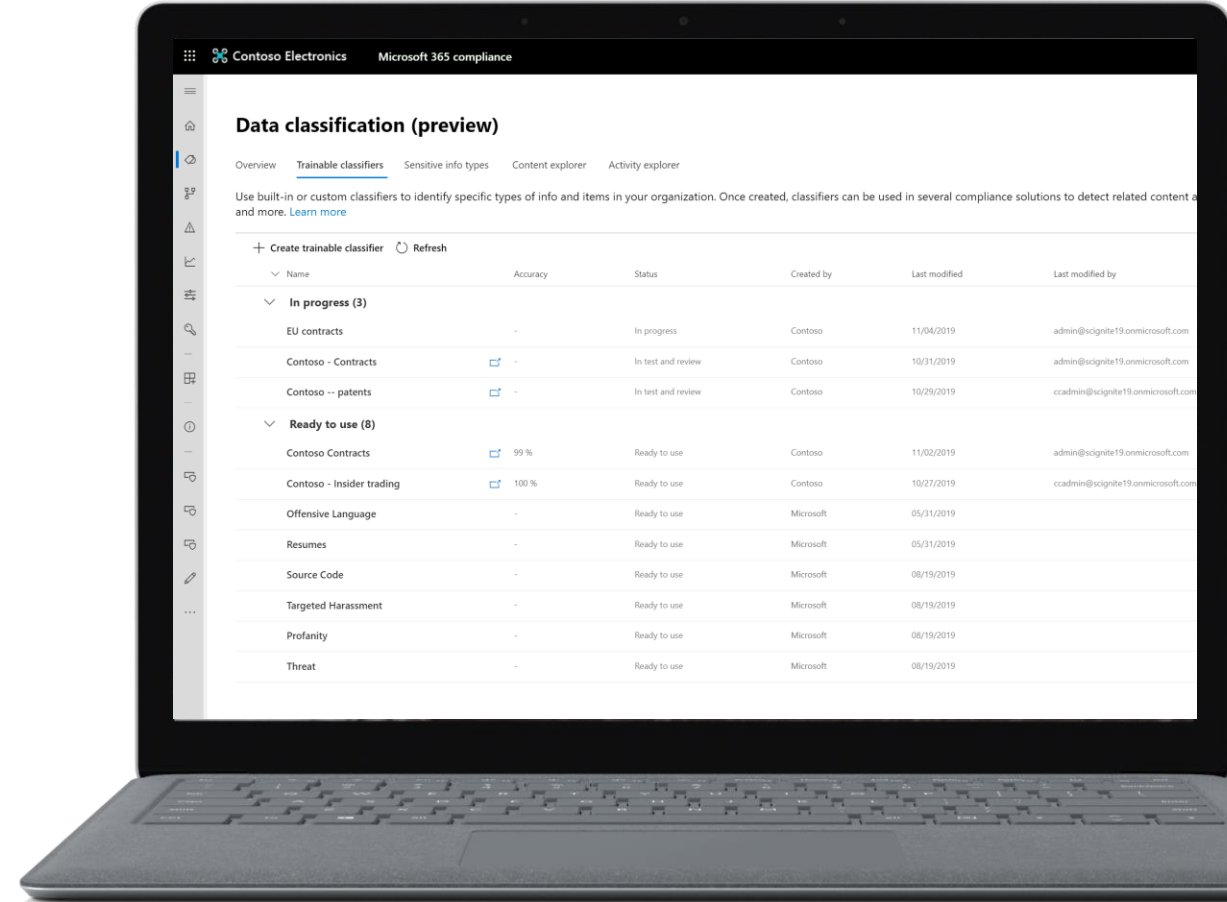
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Attach to sensitivity and retention labels and Communication Compliance with associated policies



- Audit
- Content search
- Communication compliance
- Data investigations
- Data loss prevention
- Data subject requests
- eDiscovery
- Information governance
- Information protection**
- Insider risk management
- Records management
- More resources
- Customize navigation
- Show less

Information protection

Show in navigation

Labels Label policies

Sensitivity labels are used to classify email messages, documents, sites, and more. When a label is applied (automatically or by the user), the content or site is protected based on the settings you choose. For example, you can create labels that encrypt files, add content marking, and control user access to specific sites. [Learn more about sensitivity labels](#)

[+](#) Create a label [🗨️](#) Publish labels [🔄](#) Refresh

Name		Order	Created by	Last modified
SSN	...	0 - lowest	Ethan Stakoff	03/08/2020
Resume	...	1	Ethan Stakoff	02/20/2020
Recommend Resume label	...	2 - highest	Ethan Stakoff	02/25/2020

0 items selected. 3 items loaded.

Give feedback

- Audit
- Content search
- Communication compliance
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0 items selected. 3 items loaded.

Give feedback



New sensitivity label



- Name & description
- Encryption
- Content marking
- Endpoint data loss prevention
- Auto-labeling for Office apps
- Review your settings

Name your label

The protection settings you choose for this label will be immediately enforced on the files, email messages or sites to which it's applied. Labeled files will be protected wherever they go, whether they're saved in the cloud or downloaded to a computer.

Name *

Tooltip *

Description

Next

Cancel

Give feedback



New sensitivity label

- Name & description
- Encryption
- Content marking
- Endpoint data loss prevention
- Auto-labeling for Office apps
- Review your settings

Encryption

Control who can access files and email messages that have this label applied. [Learn more about encryption settings](#)

Encryption

i Turning on encryption impacts Office files (Word, PowerPoint, Excel) that have this label applied. Because the files will be encrypted for security reasons, performance will be slow when the files are opened or saved, and some SharePoint and OneDrive features will be limited or unavailable. [Learn more](#)

Assign permissions now or let users decide?

The encryption settings you choose will be automatically enforced when the label is applied to email and Office files.

User access to content expires

Back

Next

Cancel

Give feedback



New sensitivity label

- ✓ Name & description
- ✓ Encryption
- Content marking
- Endpoint data loss prevention
- Auto-labeling for Office apps
- Review your settings

Content marking

Add custom headers, footers, and watermarks to email messages or documents that have this label applied. [Learn more about content marking](#)

Content marking



- Add a watermark
Customize text
- Add a header
Customize text
- Add a footer
Customize text

Back

Next

Cancel

Give feedback



New sensitivity label

- ✓ Name & description
- ✓ Encryption
- ✓ Content marking
- Endpoint data loss prevention
- Auto-labeling for Office apps
- Review your settings

Endpoint data loss prevention

Currently, you can only set up endpoint DLP capabilities offered by Windows Information Protection (WIP). DLP settings for Office 365 apps will be available soon. [Learn how endpoint DLP works with sensitivity labels](#)

Endpoint data loss prevention

Back

Next

Cancel

Give feedback



New sensitivity label

- ✓ Name & description
- ✓ Encryption
- ✓ Content marking
- ✓ Endpoint data loss prevention
- ✓ Site and group settings
- Auto-labeling for Office apps
- Review your settings

Auto-labeling for Office apps

Auto-labeling is supported in Office apps for users who have either Office 365 ProPlus or the Azure Information Protection unified labeling client installed. When we detect sensitive content in email or documents matching the conditions you choose, we can automatically apply this label or show a message to users recommending they apply it themselves. [Learn more about auto-labeling](#)

Auto-labeling for Office apps



^ **Detect content that contains**

+ Add condition v

When content matches these conditions

Back

Next

Cancel





New sensitivity label

- Name & description
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Auto-labeling for Office apps



^ Detect content that contains

^

Content contains

Default	All of these v	
Add v		
<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;"> Sensitive types </div> <div style="border: 1px solid #ccc; padding: 5px;"> Classifiers </div>		
+ Add condition		

When content matches these conditions

New sensitivity label

- ✓ Name & description
- ✓ Encryption
- ✓ Content marking
- ✓ Endpoint data loss prevention
- Auto-labeling for Office apps
- Review your settings

Auto-labeling is supported in Office apps when the unified labeling client is installed. When we can automatically apply this label or [auto-labeling](#)

Auto-labeling for Office apps



Detect content that contains

Content contains

Default

Add

- Sensitive info types
- Classifiers

When content matches these conditions

Automatically apply the label

Message displayed to user

Back Next

Classifiers

Search

- Select all
- Offensive Language Microsoft
- Resumes Microsoft
- Source Code Microsoft
- Targeted Harassment Microsoft
- Profanity Microsoft
- Threat Microsoft

Add Cancel



New sensitivity label

- ✓ Name & description
- ✓ Encryption
- ✓ Content marking
- ✓ Endpoint data loss prevention
- Auto-labeling for Office apps
- Review your settings

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Auto-labeling for Office apps



^ Detect content that contains

^ Content contains	
Default	All of these
Classifiers	
Resumes	
Add	
Create group	

+ Add condition

When content matches these conditions

New sensitivity label

- ✓ Name & description
- ✓ Encryption
- ✓ Content marking
- ✓ Endpoint data loss prevention
- Auto-labeling for Office apps
- Review your settings



^ Detect content that contains

^ Content contains

Default

All of these

Classifiers

Resumes

Add

Create group

+ Add condition

When content matches these conditions

Recommend that user apply the label

Message displayed to user

Your organization recommends that you change the sensitivity to: Recommend Resume label

Back

Next

Cancel

Give feedback

New sensitivity label

- ✓ Name & description
- ✓ Encryption
- ✓ Content marking
- ✓ Endpoint data loss prevention
- ✓ Auto-labeling for Office apps
- Review your settings

Review your settings

Name
Resume Recommend label
[Edit](#)

Display name
[Edit](#)

Tooltip
This document should not be shared externally.
[Edit](#)

Description
[Edit](#)

Encryption
[Edit](#)

Content marking
[Edit](#)

Endpoint data loss prevention
[Edit](#)



What's in it for customers?

Show slides on how the classifier is used in Comms Comp, Retention labels, Sensitivity labels, and Analytics



Join private preview for trainable classifiers in MIP

Fill out the survey here: <https://aka.ms/MLSensitivityLabelsPreviewConsent>

Follow MIP previews: <https://aka.ms/MIPC/Previews>

Tech Community Resources: <https://aka.ms/MIPC/TechCommunity>

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