

proofpoint.

Proofpoint Information Protection

COMBAT DATA LOSS
AND INSIDER RISK



Recognized by analyst firms

Gartner

FORRESTER®

kuppingercoie
ANALYSTS

FROST & SULLIVAN

GIGAOM

Industry Analyst & Customer Recognition for Proofpoint Data Security

Preferred by customers

“Easy to use, yet powerful for very specific, granular controls. Great support and fast response times. Products constantly evolving, adding new innovative features.”

**2024 Gartner Peer
Insights “Customers’
Choice” for Data Loss
Prevention**



“The platform has proven its work by helping us identify and mitigate several insider threats that could have resulted in data breaches.”

**2024 Gartner Peer
Insights “Customers’
Choice” for Insider Risk
Management**



Trusted by world class organizations

Finance / Insurance



JPMorganChase



CHUBB

Healthcare



REGENERON
science to medicine®

Medtronic

Transportation



Industrial

SPACEX



JOHN DEERE



Retail



Energy



Schlumberger



EVERSOURCE

Technology

TERADYNE



Education



Proofpoint Data Security Platform

The Four Driving Forces



Growing amounts of data and
communication channels

Multi-Channel Audit Trail: SaaS, PaaS, Information
Systems, Messengers, Email, Cloud Services ...



Remote Work, Regulations
and Compliance

Cost of non-compliance: GDPR, ISO 27001, ISO 9001, TISAX,
FINMA, Customer-Specific Requirements ...



Safe usage of new technologies,
securing data in legacy systems

Generative AI, Deep Learning, Automation
Toolkits, Multi-Cloud Adoption ...



Cutting edge innovation
and intellectual property

Blueprints, trade secrets, source code,
pricing- and GTM innovations ...

Data Loss Prevention

continuous education of
Careless Users



Chelsea, Commercialization

3rd party websites, USB, non-IT apps, unregistered BYOD

proactive identification of
Risky Users



Evan, Medicines Development

Privileged user, renames IP, copies to cloud sync

Example

A leading manufacturer and supplier of sensor-based solutions

- Revenue: 2'307 Mio. EUR
- DE: 380 Mio. EUR
- EMEA: 823 Mio. EUR
- Americas: 545 Mio. EUR
- APAC: 559 Mio. EUR

- FTEs: 12'185 **x1.43**
- Patents: 3'987
- **R&D Effort: 270 Mio. EUR**
- **EBIT: 189 Mio. EUR**

responsible offboarding
Leaving Employee



Ray, R&D Head

Willing to leverage the IP, replicate the product in Asia and compete on price

A Unified Data Security SaaS Platform

Content

Is the data sensitive,
where does it live,
who has permissions?

Behavior

Can you see unusual
or risky behavior that
illuminates user intent?

ADAPTIVE

Employ AI-based detections and
dynamically adjust controls
based on real-time risk

HUMAN-CENTRIC

COMPREHENSIVE

Complete coverage for data
exfiltration, data exposures,
and insider threats



END-USER VIEW



Emmet Jacobs

VP of M&A

Stop Email Misdelivery

- Emmett Jacobs is a VP of M&A working for MyComp, an investment firm that advises clients on valuing and acquiring companies in their industry.



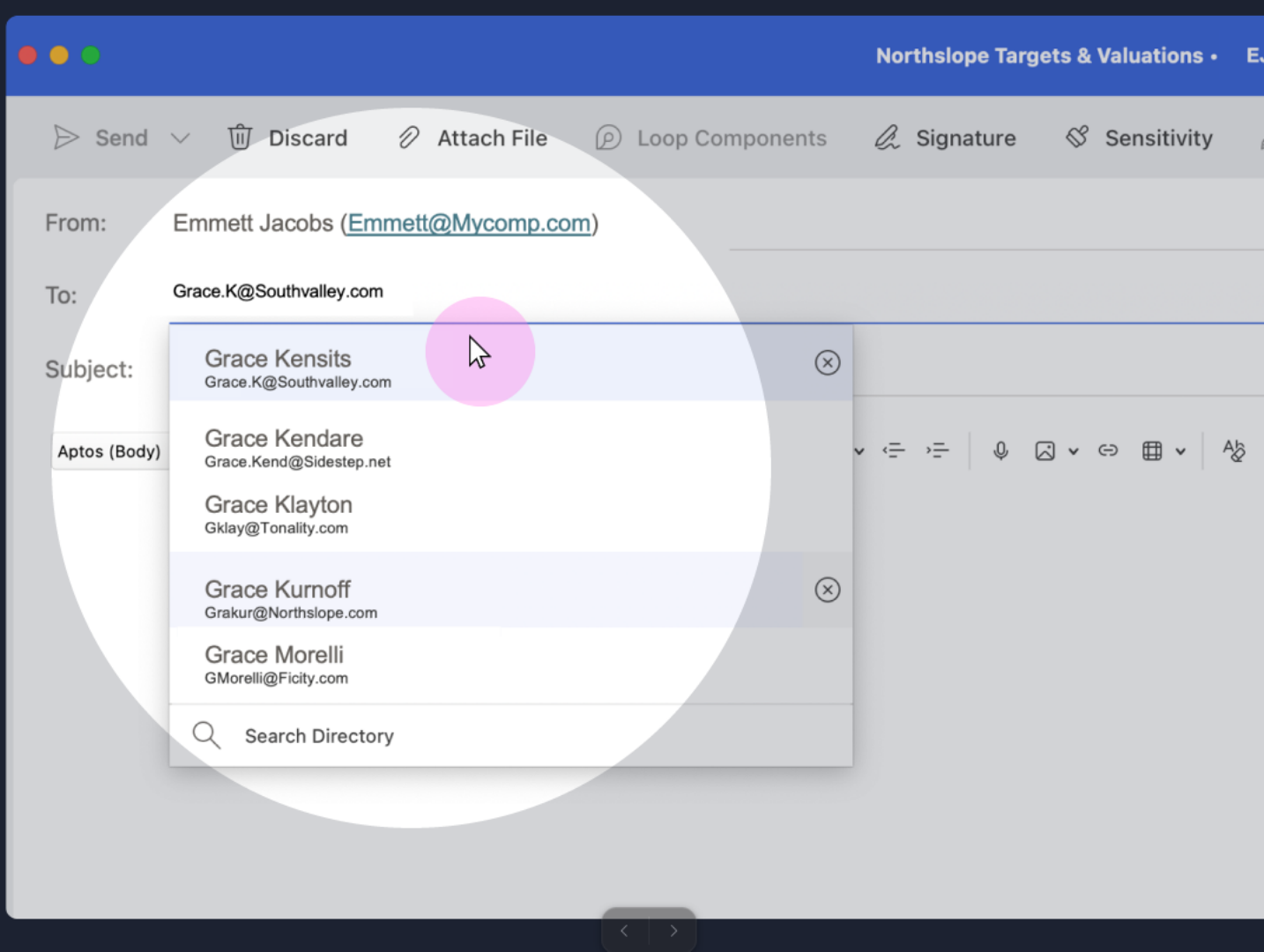
END-USER VIEW



Emmet Jacobs

VP of M&A

- Emmett is late in delivering a proposal to NorthSlope, a MyComp customer. In haste, he accidentally sends a proposal containing acquisition targets and valuations to a similarly named contact at SouthValley, another MyComp customer.





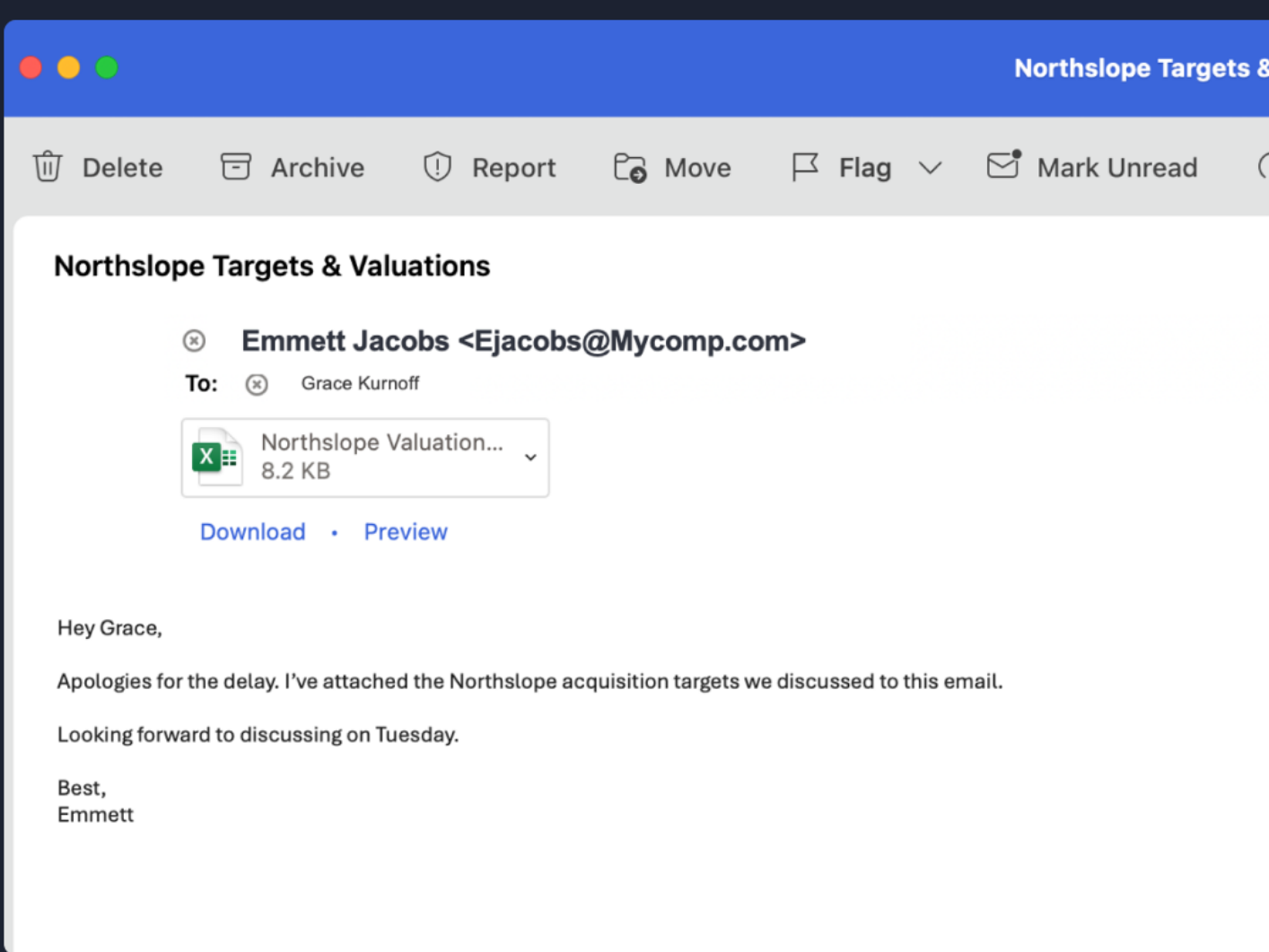
VP of M&A

- The screenshot shows an email client window. At the top, the title bar reads "Northslope Targets & Valuations • EJacobs@Mycomp.com". Below the title bar is a toolbar with icons for Send, Discard, Attach File, Loop Components, Signature, Sensitivity, Editor, and Check Accessibility. The email header shows "From: Emmett Jacobs (EJacobs@Mycomp.com)" and "To: Grace.K@southvalley.com". The subject is "Northslope Targets & Valuations". An attachment is shown: "Northslope Valuation..." (8.2 KB). The email body contains the text: "Hey Grace, Apologies for the delay. I've attached the Northslope Targets & Valuations. Looking forward to discussing on Tuesday. Best, Emmett". A warning dialog box is open, titled "Adaptive Email DLP". It asks "Is this the correct recipient?" and shows a suggestion: ">Grace.K@southvalley.com (Grace Kensits)". It also mentions another contact: "There is another similar contact Grakur@northslope.com (Grace Kurnoff) who has a stronger relationship with the words mentioned in the email's subject". At the bottom of the dialog are two buttons: "Send email" and "Don't send". A mouse cursor is pointing at the "Don't send" button.

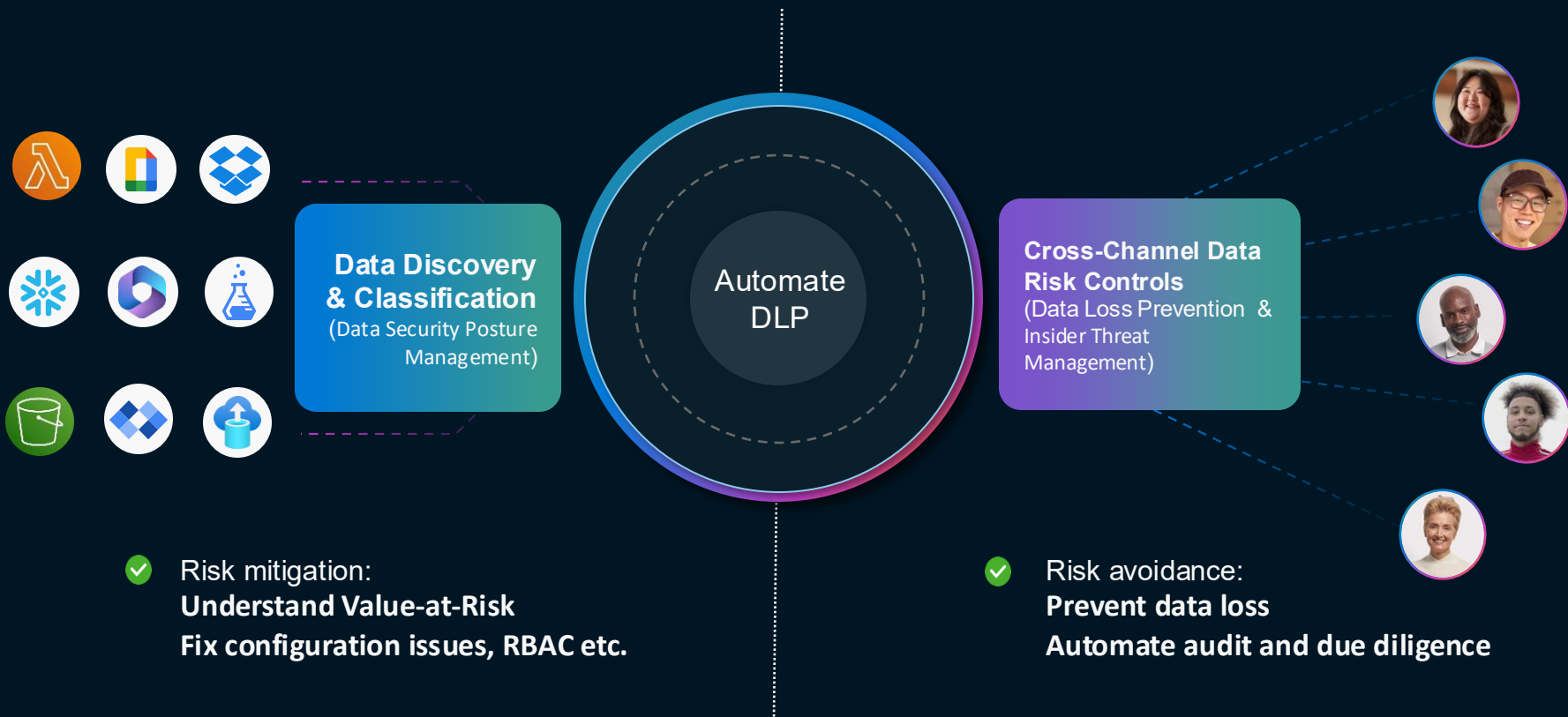
**Emmet Jacobs**

VP of M&A

- This time, Emmett selects the right contact at NorthSlope and the email is sent with no warning.



VISION: END-TO-END DATA PROTECTION PLATFORM



END-USER VIEW



Carol Brown
MD, Medical Director

Background

- Carol is the Medical Director in charge of a successful clinical drug trial. She has given her notice to take a job with a competitor
- In an attempt to impress her future employer, she wants to show data from the clinical trials she led in her current role.



END-USER VIEW



Carol Brown

MD, Medical Director

- She opens a PDF document containing clinical trial data and attempts to print it.
- She previously downloaded this document from her corporate Sharepoint site.

The screenshot displays a web-based PDF viewer interface. The top navigation bar includes a 'Menu' icon, a document tab titled 'DrugX_Trial.pdf', and a '+ Create' button. On the right, there are links for 'Find text or tools', 'Sign in', and various utility icons. A left-hand sidebar lists 'All tools' such as 'Export a PDF', 'Edit a PDF', 'Create a PDF', 'Combine files', 'Organize pages', 'Add comments', 'Request e-signatures', 'Scan & OCR', 'Protect a PDF', 'Redact a PDF', 'Compress a PDF', 'Prepare a form', 'Fill & Sign', and 'View more'. At the bottom of the sidebar, it says 'Convert, edit, and e-sign PDF forms.' and features a 'Free 7-day trial' button.

The main viewing area shows a PDF document with a maroon header and footer. The header text reads 'Genetic Cancer Treatment Drug X Clinical Trial' followed by 'Carol Brown, PhD' and 'Director of Cancer Control'. The footer includes the 'ACME' logo, a disclaimer: 'This fictitious company is not real and any resemblance to a real company is purely coincidental. Publicly sourced data is provided "as is" and without warranty / For demo use only.', and the date 'August 10, 2023'. A 'Print' dialog box is open in the center, with a pink circle highlighting the 'Print' button. The dialog box has tabs for 'Printer' (Canon MX880 series Printer WS), 'Properties', and 'Advanced'. It shows 'Copies: 1', 'Pages to Print' (All, Current, Pages 1-11), 'Page Sizing & Handling' (Fit, Shrink oversized pages, Actual size, Custom Scale: 100%), 'Orientation' (Auto, Portrait, Landscape), and 'Comments & Forms' (Document and Markups, Summarize Comments). A preview of the document page is shown on the right side of the dialog.

END-USER VIEW



Carol Brown
MD, Medical Director

- The company treats all clinical trials as intellectual property and categorizes them as very sensitive because they contain proprietary, PII and PHI data.

The Proofpoint DLP solution running on Carol's managed laptop detects a DLP violation and **blocks** her from printing this document to her home printer.

The screenshot displays a web application interface for managing PDF documents. The top navigation bar includes a 'Menu' button, a home icon, a star icon, and the document title 'DrugX_Trial.pdf'. A 'Sign in' button is located in the top right corner. The left sidebar contains a list of tools: Export a PDF, Edit a PDF, Create a PDF, Combine files, Organize pages, Add comments, Request e-signatures, Scan & OCR, Protect a PDF, Redact a PDF, Compress a PDF, Prepare a form, Fill & Sign, and View more. The main content area shows a PDF document with a pink background and text that includes 'treatment', 'cal Trial', 'Carol Brown, Phd', 'ancer Control', and 'August 10, 2023'. A 'Print' dialog box is open, displaying the 'ACME BIOGENICS' logo and the message 'Print operation blocked'. The dialog explains that printing is blocked due to company policy regarding sensitive content and provides a link to 'View Acceptable Data Sharing Policy'. The dialog also mentions 'Powered by Proofpoint' and has an 'OK' button. The bottom of the screen shows a Windows taskbar with a search bar and several application icons.

END-USER VIEW

Carol Brown
MD, Medical Director

- The company treats all clinical trials as intellectual property and categorizes them as very sensitive because they contain proprietary, PII and PHI data.

The Proofpoint DLP solution running on Carol's managed laptop detects a DLP violation and **blocks** her from printing this document to her home printer.

Print operation blocked

Printing was blocked because per company policy you are not permitted to print files with sensitive content. Please review acceptable data sharing policy below.

[View Acceptable Data Sharing Policy](#)

Powered by Proofpoint

August 10, 2023

ACME

This fictitious company is not real and any resemblance to a real company is purely coincidental
Publicly sourced data is provided "as is" and without warranty / For demo use only

END-USER VIEW



Carol Brown
MD, Medical Director

- Since Carol was blocked from printing this Drug Trials document, she renames the file to something benign: Travel_Ideas.pdf.
- Carol thinks that now the file is renamed her company will no longer block her from exfiltrating it.

The screenshot shows the ChatGPT web interface in a browser window. The address bar shows `chat.openai.com`. The interface includes a sidebar with a "New chat" button and a user profile for "Carol Brown". The main area shows a chat with GPT-3.5. A file upload window is open, showing a file named "Travel_Ideas.pdf" (678 KB) selected. A pink circle highlights the file name. Below the file upload window, a text input field contains the prompt "Summarize this for me:" and a green send button. The Windows taskbar at the bottom shows the search bar and several application icons.

ChatGPT

chat.openai.com

Home Mail ACME - OneDrive ChatGPT My files - OneDrive

+ New chat

GPT-3.5 GPT-4

File Home Share View

This PC > Local Disk (C:) > Users > carol.brown > Downloads

Search Downloads

Name	Date modified	Type	Size
Today (1)			
Travel_Ideas.pdf	8/10/2023 10:35 PM	Adobe Acrobat D...	678 KB

Summarize this for me:

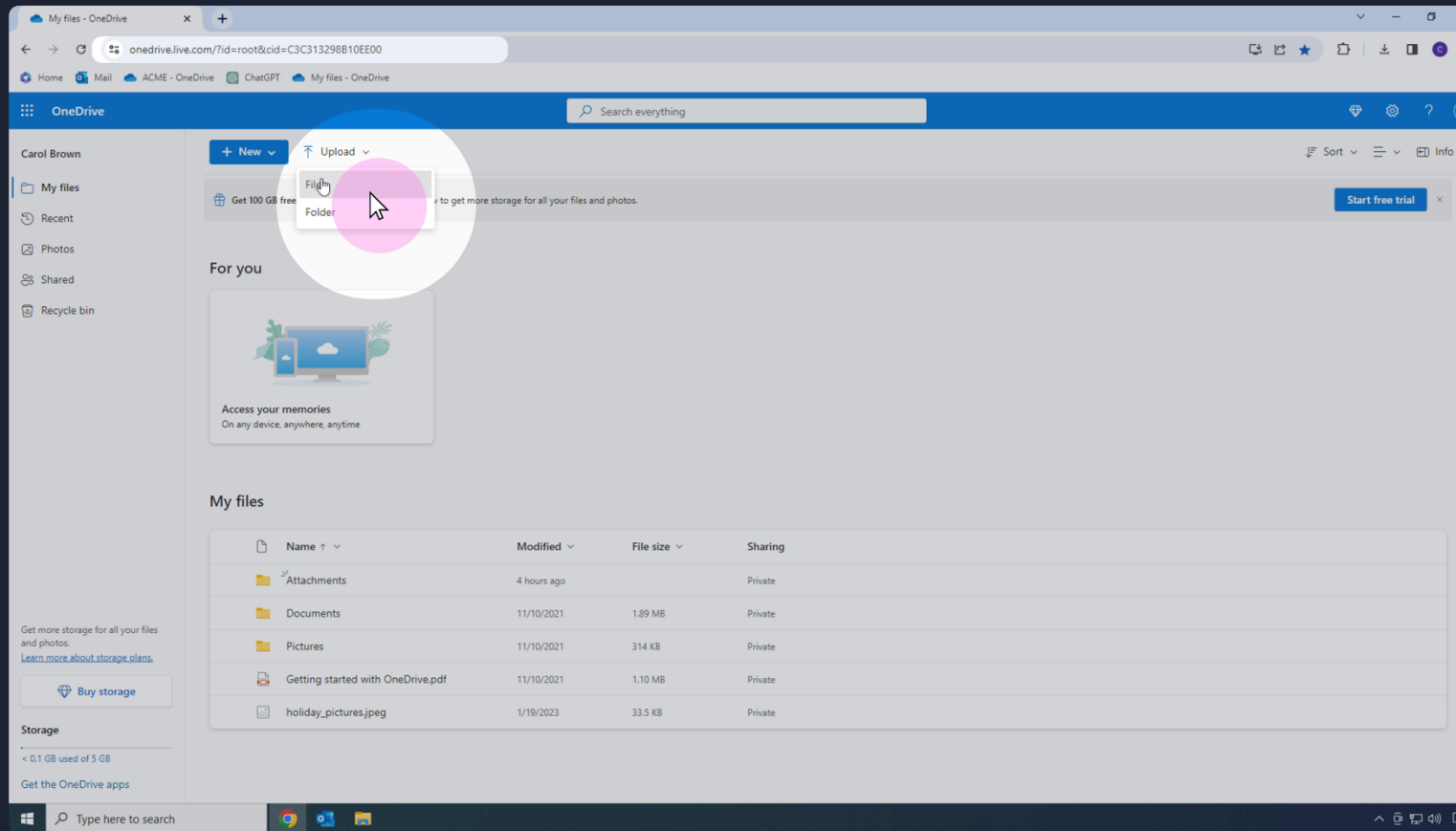
Free Research Preview: ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT August 3 Version](#)

END-USER VIEW



Carol Brown
MD, Medical Director

- Carol logs into her personal OneDrive account to attempt uploading her documents.
- Since she was blocked from printing the sensitive document, she is hoping to avoid detection by using a personal site and an ordinary named file.



The screenshot shows the OneDrive web interface for a user named Carol Brown. The interface includes a navigation menu on the left with options like 'My files', 'Recent', 'Photos', 'Shared', and 'Recycle bin'. The main area displays a 'For you' section with a message about accessing memories and a 'My files' section with a table of files and folders. A pink circle highlights the 'Upload' button and the 'File' option in the dropdown menu.

My files - OneDrive

onedrive.live.com/?id=root&cid=C3C313298B10EE00

OneDrive

Search everything

Carol Brown

+ New

Upload

File

Folder

Get 100 GB free

For you

Access your memories
On any device, anywhere, anytime

My files

Name	Modified	File size	Sharing
Attachments	4 hours ago		Private
Documents	11/10/2021	1.89 MB	Private
Pictures	11/10/2021	314 KB	Private
Getting started with OneDrive.pdf	11/10/2021	1.10 MB	Private
holiday_pictures.jpeg	1/19/2023	33.5 KB	Private

Get more storage for all your files and photos.
[Learn more about storage plans.](#)

Buy storage

Storage

< 0.1 GB used of 5 GB

Get the OneDrive apps

END-USER VIEW



Carol Brown
MD, Medical Director

- Carol selects the file named **Travel_Ideas.pdf** for upload to her personal OneDrive website.

Although the file was renamed, the content is still sensitive. Therefore the Proofpoint DLP solution running on Carol's managed laptop **blocks** the Web upload operation

ACME BIOGENICS

Upload operation blocked

File upload was blocked because this file potentially contains sensitive data and sharing it with personal accounts violates company policy. Please review acceptable data sharing policy below.

[View Acceptable Data Sharing Policy](#)

Powered by Proofpoint

OK

My files

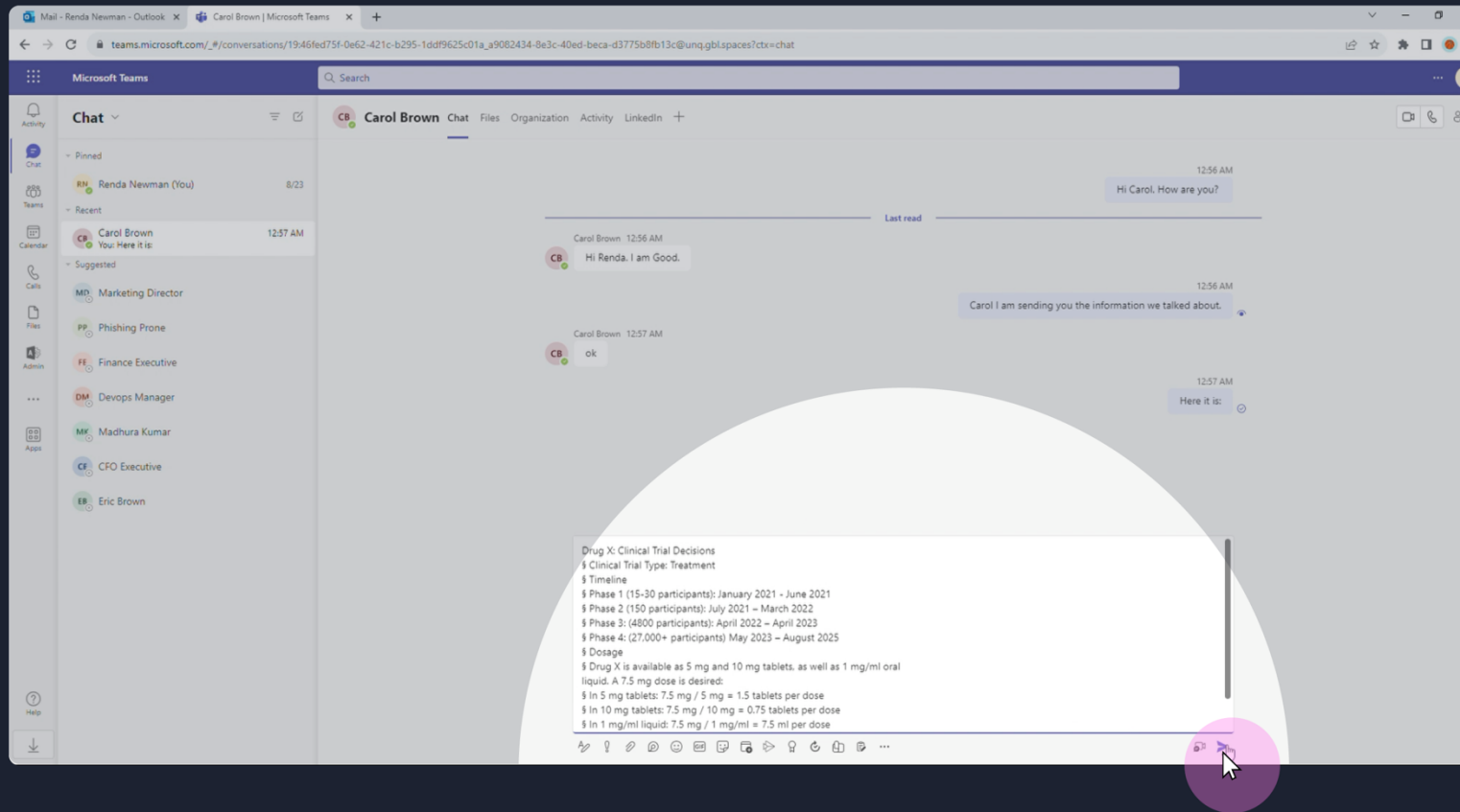
Name	Modified	Size	Share
Attachments			
Documents	11/10/2021	1.89 MB	Private
Pictures	11/10/2021	314 KB	Private
Getting started with OneDrive.pdf	11/10/2021	1.10 MB	Private
holiday_pictures.jpeg	1/19/2023	33.5 KB	Private

END-USER VIEW



Carol Brown
MD, Medical Director

- After being blocked from printing or uploading the entire sensitive file, Carol tries to share relevant information directly with the recruiter who helped with the new job.



The screenshot displays the Microsoft Teams web interface. The browser address bar shows the URL: `teams.microsoft.com/_/#/conversations/19:46fed75f-0e62-421c-b295-1dd9625c01a_a9082434-8e3c-40ed-beca-d3775b8fb13c@unq.gb1.spaces?ctx=chat`. The Teams interface includes a left sidebar with navigation icons for Activity, Chat, Teams, Calendar, Calls, Files, Admin, and Apps. The main chat window is titled "Carol Brown" and shows a conversation with Renda Newman. The chat history includes the following messages:

- Renda Newman (You): 8/23
- Carol Brown: 12:57 AM. Message: "You: Here it is:"
- Marketing Director: 12:56 AM. Message: "Hi Renda. I am Good."
- Carol Brown: 12:56 AM. Message: "Hi Carol. How are you?"
- Carol Brown: 12:57 AM. Message: "ok"
- Carol Brown: 12:56 AM. Message: "Carol I am sending you the information we talked about."
- Carol Brown: 12:57 AM. Message: "Here it is:"

A large white semi-circle highlights the blocked area where the file upload was attempted. The blocked content is as follows:

Drug X: Clinical Trial Decisions
\$ Clinical Trial Type: Treatment
\$ Timeline
\$ Phase 1 (15-30 participants): January 2021 - June 2021
\$ Phase 2 (150 participants): July 2021 - March 2022
\$ Phase 3: (4800 participants): April 2022 - April 2023
\$ Phase 4: (27,000+ participants) May 2023 - August 2025
\$ Dosage
\$ Drug X is available as 5 mg and 10 mg tablets, as well as 1 mg/ml oral liquid. A 7.5 mg dose is desired:
\$ In 5 mg tablets: 7.5 mg / 5 mg = 1.5 tablets per dose
\$ In 10 mg tablets: 7.5 mg / 10 mg = 0.75 tablets per dose
\$ In 1 mg/ml liquid: 7.5 mg / 1 mg/ml = 7.5 ml per dose

A pink circle with a cursor icon points to the bottom right corner of the chat window.

END-USER VIEW



Carol Brown
MD, Medical Director

Cloud DLP **blocks** Carol from sharing sensitive data to an external party.

Last read

Carol Brown 12:56 AM

CB Hi Renda. I am Good.

12:56 AM


Carol I am sending you the information we talked about.

Carol Brown 12:57 AM

CB ok

12:57 AM


Here it is:

 This message was blocked. [Learn more.](#)

Drug X: Clinical Trial Decisions

- § Clinical Trial Type: Treatment
- § Timeline
 - § Phase 1 (15-30 participants): January 2021 - June 2021
 - § Phase 2 (150 participants): July 2021 – March 2022
 - § Phase 3: (4800 participants): April 2022 – April 2023
 - § Phase 4: (27,000+ participants) May 2023 – August 2025
- § Dosage
 - § Drug X is available as 5 mg and 10 mg tablets, as well as 1 mg/ml oral liquid. A 7.5 mg dose is desired:
 - § In 5 mg tablets: $7.5 \text{ mg} / 5 \text{ mg} = 1.5$ tablets per dose
 - § In 10 mg tablets: $7.5 \text{ mg} / 10 \text{ mg} = 0.75$ tablets per dose
 - § In 1 mg/ml liquid: $7.5 \text{ mg} / 1 \text{ mg/ml} = 7.5 \text{ ml}$ per dose
 - § Of the above options, giving $1 \frac{1}{2}$ tablet is much easier then $\frac{3}{4}$ of a tablet or a large volume of liquid

Type a new message





Your message has been
blocked
Chat with Carol Brown

END-USER VIEW



Carol Brown
MD, Medical Director

- Carol is accessing her cloud documents from home, to avoid using her corporate laptop which is too restrictive

Files - OneDrive - Mozilla Firefox

Microsoft Office Home x Files - OneDrive x

Firefox prevented this site from opening a pop-up window. Preferences x

proofpoint SaaS Isolation https://demopft-my.sharepoint.com/personal/bob_smith_pfpt-demo_com/_layouts/15/onedrive.aspx

OneDrive Search

Carol Brown

My files

Recent

Shared

Discover

Recycle bin

Shared libraries

Sites help you work on projects with your team and share information from anywhere on any device. Create or follow sites to see them here.

Create shared library

Get the OneDrive apps

Open Share Copy link Download Delete Rename ...

Sort 1 selected

Files

Name	Modified	Modified By	File size	Sharing
CC-Numbers-Data.docx	About an hour ago	Bob Smith	10.2 MB	Private
DrugX_TrialData.docx	About an hour ago	Bob Smith	33.5 KB	Shared
HIPAA-Data-SSNs.docx	About an hour ago	Bob Smith	1.00 MB	Private
Large-File-Sanitized-Info.xlsx	About an hour ago	Bob Smith	9.12 MB	Private
PII-Sanitized-Info.xlsx	About an hour ago	Bob Smith	998 KB	Private

END-USER VIEW



Carol Brown
MD, Medical Director

- Carol is trying to download the clinical trial document to her home computer

Proofpoint SaaS Isolation **blocks** download due to DLP violation

The screenshot shows a Mozilla Firefox browser window titled "Files - OneDrive - Mozilla Firefox". The address bar displays the URL: `https://demopft-my.sharepoint.com/personal/bob_smith_pfpt-demo_com/_layouts/15/onedrive.aspx`. A yellow notification bar at the top states: "Firefox prevented this site from opening a pop-up window." Below this, a "Download Blocked" dialog box is visible, indicating that the download of "DrugX_TrialData.docx" is blocked by the company's data security policy. The OneDrive interface shows a list of files, with "DrugX_TrialData.docx" highlighted. A pink circle highlights the "Download" button in the file's action menu.

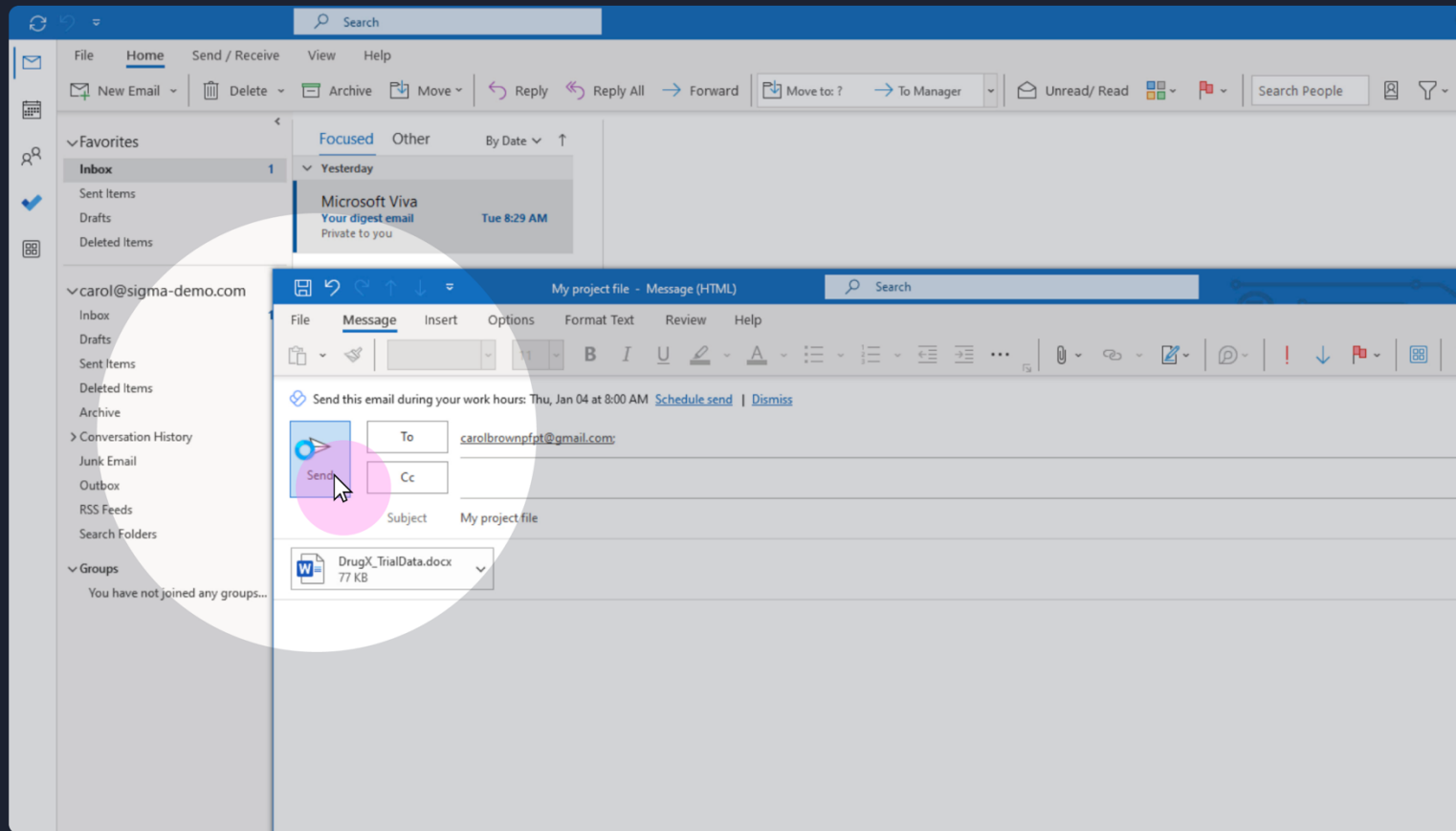
Name	Modified	Modified By	File size	Sharing
CC-Numbers-Data.docx	About an hour ago	Bob Smith	10.2 MB	Private
DrugX_TrialData.docx	About an hour ago	Bob Smith	33.5 KB	Shared
HIPAA-Data-SSNs.docx	About an hour ago	Bob Smith	1.00 MB	Private
Large-File-Sanitized-Info.xlsx	About an hour ago	Bob Smith	9.12 MB	Private
PII-Sanitized-Info.xlsx	About an hour ago	Bob Smith	998 KB	Private

END-USER VIEW



Carol Brown
MD, Medical Director

- Carol is attempting to send the clinical trial document from her corporate email to her personal gmail.
- She uses the Outlook Web Access app from home, and attaches the sensitive document directly from her corporate Sharepoint site.



END-USER VIEW



Carol Brown
MD, Medical Director

Proofpoint Email DLP **blocks** the delivery of the message due to DLP violation and sends back a notification message to Carol

The screenshot shows the Outlook interface for Carol Brown. The left sidebar lists folders: Favorites (Inbox, Sent Items, Drafts, Deleted Items) and Groups (You have not joined any groups...). The main pane shows the 'Inbox' with two items: a 'Policy Violation Notification' from proofpoint-pps@ppops.net at 9:50 PM, and a 'Microsoft Viva Your digest email' from carol@sigma-demo.com at Tue 8:29 AM. The right pane displays the content of the selected 'Policy Violation Notification' email.

Policy Violation Notification

proofpoint-pps@ppops.net
To: Carol Brown

We could not verify the identity of the sender. Click here to learn more.

Our secure e-mail gateway has detected a DLP policy violation in the message with the following subject:

"My project file"

Your message did not reach its intended recipient, and is currently under review. Please refer to our company's policies to review the guide.

If you believe this is in error or if you have any questions, please contact our support team at 'support@sigma-demo.com'.

SigmaDemo Compliance Team

ANALYST VIEW



Jack Bauer
DLP Analyst

Then, at the SOC...

- Jack is monitoring for data exfiltrations that may have occurred.



END-USER VIEW



Jack Bauer

DLP Analyst

- Jack is in the Proofpoint Information Protection console to view the top risky users. He sees Carol Brown at the top and drills in for details



END-USER VIEW



Jack Bauer
DLP Analyst

- The analyst sees all the alerts that Carol's activities triggered across multiple channels.

Proofpoint Analytics Console

proofpoint Analytics [+ New Exploration](#)

Reset to Default View [Save View](#) [PST](#)

Alerts

+ SHOW FILTERS REGION: US1 TIME: 7 DAYS SOURCE: ENDPOINT, CASB, EMAIL, WEB SECURITY, ISOLATION, ICAP USER NAME: BOB.SMITH@PFPT-DEMO.COM + 2 CONDITION: EXCL. EXCL

+ SHOW HISTOGRAM

+ SHOW INSIGHTS

+ SHOW SUMMARY

12 Alerts [Edit Columns](#)

	PST Time	FEED Product (4)	ACTIVITY Categories (16)	ACTIVITY Summary	WORKFLOW Status
<input type="checkbox"/>	JAN 3, 2024 12:09:55 PM	CASB API	Instant Message Send Instant Message Send, Instant Message	ENTITY/APPLICATION - NAME Microsoft Teams (Office 365) ACCESS SOURCE - LOCATION INFO US, CA, Cupertino	New
<input type="checkbox"/>	JAN 3, 2024 12:09:51 PM	Endpoint	Print Blocked Application Use	ENDPOINT - HOSTNAME carol-pc DEVICES - PRINTER NAME Canon MX880 series Printe... ACTIVITY - NUMBER OF PAGES N/A FILES/RESOURCES - NAME DrugX_TrialData.docx	New
<input type="checkbox"/>	JAN 3, 2024 12:09:47 PM	CASB API	File Modify Alert	ENTITY/APPLICATION - NAME Google (Google Apps) ACCESS SOURCE - LOCATION INFO US, New York, Brooklyn FILES/RESOURCES - NAME Izel Gregorio Para Chapter 4C ACME - Confidential	New
<input type="checkbox"/>	JAN 3, 2024 12:09:21 PM	Endpoint	Copy to USB Blocked File Copy, Application Use	ENDPOINT - HOSTNAME carol-pc FILES/RESOURCES - NAME DrugX_TrialData.docx, DEVICES - USB VENDOR NAME Unknown DEVICES - STORAGE VOLUME MY-USB	New
<input type="checkbox"/>	JAN 3, 2024 12:09:17 PM	Email	Outbound Email Alert Blocked	MESSAGES - SUBJECT RE: Going to the Black Hat ... MESSAGES - SENDER ID bob.smith@pfpt-demo.com FILES/RESOURCES - NAME Subject: RE: Going to the Bla... Purview Encryption + 1 MESSAGES - RECIPIENT ID jack@authexpert.com	New
<input type="checkbox"/>	JAN 3, 2024 12:09:01 PM	Endpoint	Web File Upload Blocked Web Browsing, Application Use	ENDPOINT - HOSTNAME carol-pc FILES/RESOURCES - NAME DrugX_TrialData.docx WEBSITE - URL DOMAIN www.dropbox.com USER INTERFACE - WINDOW T Files - Dropbox	New
<input type="checkbox"/>	JAN 3, 2024 11:50:55 AM	ICAP	ICAP Proxy Download Alert	ENTITY/APPLICATION - NAME ZScaler ZIA (zia) FILES/RESOURCES - NAME clinical_trial_participants.xls	New
<input type="checkbox"/>	JAN 3, 2024 11:48:53 AM	Endpoint	Web File Upload Blocked File Tracking, Web Browsing, Application Use	ENDPOINT - HOSTNAME carol-pc FILES/RESOURCES - NAME Travel_Ideas.pdf ACME - Confidential WEBSITE - URL DOMAIN onedrive.live.com USER INTERFACE - WINDOW T My files - OneDrive - Goo	New



- Jack is examining the details of an Alert, going over the DLP indicators

proofpoint Analytics + New Exploration Search users, endpoints, etc. in the last 7 days

Alerts Reset to Default View Save View PST

+ SHOW FILTERS REGION: US1 TIME: 7 DAYS SOURCE: ENDPOINT, CASB, EMAIL, WEB SECURITY, ISOLATION, ICAP USER NAME: BOB.SMITH@PFPT-DEMO.COM + 2 CONDITION: EXCL. EXCL.

+ SHOW HISTOGRAM JAN 2, 2024 7:22 PM - JAN 9, 2024 7:22 PM PST

+ SHOW INSIGHTS

+ SHOW SUMMARY

12 Alerts Edit Columns

	PST Time	FEED Product (4)	ACTIVITY Categories (16)	ACTIVITY Summary	WORKFLOW Status
<input type="checkbox"/>	JAN 3, 2024 12:09:55 PM	CASB API	Instant Message Send	Instant Message Send, Instant Message	ENTITY/APPLICATION - NAME Microsoft Teams (Office 365) ACCESS SO US, New
<input type="checkbox"/>	JAN 3, 2024 12:09:51 PM	Endpoint	Print Application Use	Blocked	ENDPOINT - HOSTNAME carol-pc DEVICES - F Canon M New
<input type="checkbox"/>	JAN 3, 2024 12:09:47 PM	CASB API	File Modify Alert		ENTITY/APPLICATION - NAME Google (Google Apps) ACCESS SO US, New
<input type="checkbox"/>	JAN 3, 2024 12:09:21 PM	Endpoint	Copy to USB	Blocked	ENDPOINT - HOSTNAME carol-pc FILES/RESC DrugX_Tr New
<input type="checkbox"/>	JAN 3, 2024 12:09:17 PM	Email	Outbound Email Alert	Blocked	MESSAGES - SUBJECT RE: Going to the Black Hat ... MESSAGES bob.smith New
<input type="checkbox"/>	JAN 3, 2024 12:09:01 PM	Endpoint	Web File Upload	Blocked	ENDPOINT - HOSTNAME carol-pc FILES/RESC DrugX_Tr New
<input type="checkbox"/>	JAN 3, 2024 11:50:55 AM	ICAP	ICAP Proxy Download Alert		ENTITY/APPLICATION - NAME ZScaler ZIA (zia) FILES/RESC clinical_tr New
<input checked="" type="checkbox"/>	JAN 3, 2024 11:48:53 AM	Endpoint	Web File Upload	Blocked	ENDPOINT - HOSTNAME carol-pc FILES/RESC Travel_Id ACME - Co New

Response Actions

- Endpoint Operation Block: Confidential - IP WebUpload Block

Rules

- Uploading Sensitive IP Content

Indicators and Matches

- Confidential - Cancer Trials Dictionary (3) [Dictionary]
- Confidential - Cancer Trials Detector [Detector]
- High Risk User Group [Condition]
- Research and Development Group [Condition]
- [Rule] Uploading Sensitive IP Content [Condition]
- Exfiltrating any file to the web by uploading [Condition]

END-USER VIEW



Jack Bauer
DLP Analyst

- Jack clicks on the File Timeline link to view the history of what the user did with this file.
- The file originated in the company's share point, the user attempted to exfiltrate the file via many exit points, even tried to rename the file before attempting exfiltration.

The screenshot displays the Proofpoint Analytics Console interface. The top navigation bar includes the 'proofpoint Analytics' logo, a '+ New Exploration' button, and a search bar. The main content area is titled 'Alerts' and shows a list of 12 alerts. The selected alert is 'Web File Upload' (Blocked), which occurred on Jan 3, 2024, at 11:48:53 AM from an Endpoint. The file being tracked is 'Travel_Ideas.pdf' (677.23 KB) located at 'c:\users\carol.brown\downloads\Travel_Ideas.pdf'. The file's classification is 'MIP ACME - Confidential'. The 'File Timeline' link is highlighted, showing the file's history, including its upload to 'onedrive.live.com' and subsequent attempts to exfiltrate it via various endpoints and applications like Microsoft Teams and Google Apps. The 'Response Actions' section shows 'Endpoint Operation Block: Confidential - IP WebUpload Block'. The 'Rules' section shows 'Uploading Sensitive IP Content'.

Alerts

REGION: US1 TIME: 7 DAYS SOURCE: ENDPOINT, CASB, EMAIL, WEB SECURITY, ISOLATION, ICAP USER NAME: BOB.SMITH@PFPT-DEMO.COM + 2 CONDITION: EXCL, EXCL

JAN 2, 2024 7:22 PM - JAN 9, 2024 7:22 PM PST

12 Alerts

PST Time	FEED Product (4)	ACTIVITY Categories (16)	ACTIVITY Summary	WORKFLOW Status
JAN 3, 2024 12:09:55 PM	CASB API	Instant Message Send	Instant Message Send, Instant Message	New
JAN 3, 2024 12:09:51 PM	Endpoint	Print Blocked	Application Use	New
JAN 3, 2024 12:09:47 PM	CASB API	File Modify Alert	Google (Google Apps)	New
JAN 3, 2024 12:09:21 PM	Endpoint	Copy to USB Blocked	File Copy, Application Use	New
JAN 3, 2024 12:09:17 PM	Email	Outbound Email Alert Blocked	RE: Going to the Black Hat ...	New
JAN 3, 2024 12:09:01 PM	Endpoint	Web File Upload Blocked	Web Browsing, Application Use	New
JAN 3, 2024 11:50:55 AM	ICAP	ICAP Proxy Download Alert	ZScaler ZIA (zia)	New
JAN 3, 2024 11:48:53 AM	Endpoint	Web File Upload Blocked	File Tracking, Web Browsing, Application Use	New

Files/Resources

Web File Upload

SOURCE file - pdf - 677.23 KB | Details
c:\users\carol.brown\downloads\Travel_Ideas.pdf
Classification MIP ACME - Confidential
Detectors Confidential - Cancer Trials D...
File Details File Timeline
TARGET onedrive.live.com - https://onedrive.live.com/?id=root&cid=C3C313298B10EE00 | Details

Response Actions

+ Endpoint Operation Block: Confidential - IP WebUpload Block

Rules

+ Uploading Sensitive IP Content



DLP Analyst

- Jack uses the context provided in the File timeline, along with the other alert information to determine that the user was deliberately trying to steal data.

Proofpoint Analytics Console

proofpoint Analytics

New Exploration

Search

Alerts

+ SHOW FILTERS REGION: US1 TIME: 7 DAYS SOURCE: ENDPOINT, CASB, EMAIL, WEB SECURITY, ISOLA

+ SHOW HISTOGRAM APR 19, 2024 2:38 PM

+ SHOW INSIGHTS

+ 12 Alerts

+ SHOW SUMMARY

PDT Time	FEED Product (4)	ACTIVITY Categories (16)	ACTIVITY Summary
APR 24, 2024 6:50:46 AM	CASB API	File Modify Alert	ENTITY/APPLICATION - NAME Google (Google Apps) ACCESS-SOURCE US, New
APR 24, 2024 6:50:20 AM	Endpoint	Copy to USB Blocked File Copy, Application Use	ENDPOINT - HOSTNAME carol-pc FILES/RESOURCE DrugX_TrialD
APR 24, 2024 6:50:16 AM	Email	Outbound Email Alert Blocked RE: Going to the Black Hat ...	MESSAGES - SUBJECT bob.smith@p
APR 24, 2024 6:50:00 AM	Endpoint	Web File Upload Blocked Web Browsing, Application Use	ENDPOINT - HOSTNAME carol-pc FILES/RESOURCE DrugX_TrialD
APR 24, 2024 6:31:54 AM	ICAP	ICAP Proxy Download Alert	ENTITY/APPLICATION - NAME ZScaler ZIA (zia) FILES/RESOURCE clinical_trial_L
APR 24, 2024 6:29:51 AM	Endpoint	Web File Upload Blocked File Tracking, Web Browsing, Application Use	ENDPOINT - HOSTNAME carol-pc FILES/RESOURCE Travel_Ideas.j ACME - Confide
APR 24, 2024 6:28:51 AM	Endpoint	File Rename File Tracking, Application Use	ENDPOINT - HOSTNAME carol-pc FILES/RESOURCE DrugX_Trial.p ACME - Confide
APR 24, 2024 6:27:44 AM	Endpoint	Paste Clipboard Blocked Web Browsing, Application Use	ENDPOINT - HOSTNAME carol-pc PROCESS/APPL chrome
APR 24, 2024 6:27:14 AM	Endpoint	Print Blocked Application Use	ENDPOINT - HOSTNAME carol-pc DEVICES - PRINT Canon MX880
APR 24, 2024 6:26:54 AM	Endpoint	Web File Download File Tracking, Web Browsing, Application Use	ENDPOINT - HOSTNAME carol-pc FILES/RESOURCE DrugX_Trial.p ACME - Confide

File Activity Details

ID: 279061D0-069E-4881-AE2D-9D26A84D0439

APR 24, 2024 6:30:54 AM

Email Attempt Blocked: My project file
USER NAME carol.brown@pfpt-demo.com SENDER EMAIL carol.brown@pfpt-demo.com
RECIPIENT EMAIL carol.brown@pfpt-demo.com

APR 24, 2024 6:29:51 AM

Web File Upload :Travel_Ideas.pdf ACME - Confidential id=root&cid=C3C313298B10EE00
USER NAME carol.brown@pfpt-demo.com URL DOMAIN onedrive.live.com
WINDOW TITLE My files - OneDrive - Google Chrome

APR 24, 2024 6:28:51 AM

File Rename:DrugX_Trial.pdf ACME - Confidential → Travel_Ideas.pdf ACME - Confidential
USER NAME carol.brown@pfpt-demo.com PATH c:\users\carol.brown\downloads
APPLICATION NAME explorer

APR 24, 2024 6:27:14 AM

Print Blocked: Canon MX880 series Printer WS
USER NAME carol.brown@pfpt-demo.com NAME DrugX_Trial.pdf
WINDOW TITLE DrugX_Trial.pdf - Adobe Acrobat Reader

APR 24, 2024 6:26:54 AM

Web File :https://demopfpt-my.sharepoint.com/personal/carol_brown_pfpt-demo_com/_layouts/15/onedrive.aspx?id=%2Fpersonal%2Fcbrown_acme_com%2FDocuments%2FDocuments%2FProject%2FDrugX_Trial.pdf ACME - Confidential
USER NAME carol.brown@pfpt-demo.com URL DOMAIN acme-my.sharepoint.com
WINDOW TITLE Projects - OneDrive

Close

END-USER VIEW



Jack Bauer

DLP Analyst

- Jack starts an investigation into this user by changing the status across all relevant alerts to 'Under Investigation'.

Proofpoint Analytics Console

Analytics

+ New Exploration

Search users, endpoints, etc. in the last 7 days

Alerts

+ SHOW FILTERS REGION: US1 TIME: 7 DAYS SOURCE: ENDPOINT, CASB, EMAIL, WEB SECURITY, ISOLATION, ICAP USER NAME: BO

+ SHOW HISTOGRAM JAN 2, 2024 7:22 PM - JAN 9, 2024 7:22 PM PST

+ SHOW INSIGHTS

+ SHOW SUMMARY 12 Alerts Edit Columns

	PST Time	FEED Product (4)	ACTIVITY Categories (16)	ACTIVITY Summary	WORKFLOW Status
<input type="checkbox"/>	JAN 3, 2024 12:09:55 PM	CASB API	Instant Message Send	ENTITY/APPLICATION - NAME Microsoft Teams (Office 365)	ACCESS SO US, New
<input checked="" type="checkbox"/>	JAN 3, 2024 12:09:51 PM	Endpoint	Print Blocked	ENDPOINT - HOSTNAME carol-pc	DEVICES - F Canon M. New
<input type="checkbox"/>	JAN 3, 2024 12:09:47 PM	CASB API	File Modify Alert	ENTITY/APPLICATION - NAME Google (Google Apps)	ACCESS SO US, New
<input checked="" type="checkbox"/>	JAN 3, 2024 12:09:21 PM	Endpoint	Copy to USB Blocked	ENDPOINT - HOSTNAME carol-pc	FILES/RES DrugX_Tr New
<input type="checkbox"/>	JAN 3, 2024 12:09:17 PM	Email	Outbound Email Alert Blocked	MESSAGES - SUBJECT RE: Going to the Black Hat ...	MESSAGES bob.smitt New
<input checked="" type="checkbox"/>	JAN 3, 2024 12:09:01 PM	Endpoint	Web File Upload Blocked	ENDPOINT - HOSTNAME carol-pc	FILES/RES DrugX_Tr New
<input type="checkbox"/>	JAN 3, 2024 11:50:55 AM	ICAP	ICAP Proxy Download Alert	ENTITY/APPLICATION - NAME ZScaler ZIA (zia)	FILES/RES clinical_tr New
<input type="checkbox"/>	JAN 3, 2024 11:48:53 AM	Endpoint	Web File Upload Blocked	ENDPOINT - HOSTNAME carol-pc	FILES/RES Travel_Id ACME - Co New

Bulk Actions

3 ALERTS SELECTED

Status

☒ Under Investigation

Assignee

Select...

Tags

Select...

Comment

Cancel

Save

END-USER VIEW



John Normand
Senior .Net Developer

Background

- John is a developer working for Fortress Data Corp, an investment firm with home-grown algorithms to pick stocks.
- As a .Net developer he was tasked with identifying and eliminating security vulnerabilities from their crown jewel source code, particularly one class `AlInvestMagicFormula.cs`



END-USER VIEW



John Normand

Senior .Net Developer

- John decides to utilize ChatGPT to find and fix the security vulnerability.
- He asks for help and first provides some background info to the Gen AI app.

The screenshot shows the ChatGPT web interface in a browser. The address bar shows the URL: chat.openai.com/c/cb513212-f63a-4415-b131-66ca33f27d60. The interface includes a sidebar on the left with a 'New chat' button and a list of previous chats. The main chat area shows a conversation with 'ChatGPT 3.5'. The user's message is: 'Can you check my .NET class for security vulnerability? This code calculates if a stock is worthy of investment by returning a score'. The ChatGPT response is: 'Sure, I'd be happy to help! Please provide the code for your .NET class, and I'll review it for security vulnerabilities related to calculating the worthiness of investing in a specific stock.' A pink circle highlights the word 'calculating' in the response. At the bottom, there is a text input field with the placeholder 'Message ChatGPT...' and a 'Send' button. A disclaimer at the very bottom states: 'ChatGPT can make mistakes. Consider checking important information.'

ChatGPT

chat.openai.com/c/cb513212-f63a-4415-b131-66ca33f27d60

New chat

Today

Stock Worthiness Check R ...

.Net Class Review

Previous 30 Days

Rephrase Internal Response

March

User Request Summarized

Validate Warning Message

February

Upgrade plan
Get GPT-4, DALL-E, and more

Lior Tal

ChatGPT 3.5

You

Can you check my .NET class for security vulnerability? This code calculates if a stock is worthy of investment by returning a score

ChatGPT

Sure, I'd be happy to help! Please provide the code for your .NET class, and I'll review it for security vulnerabilities related to calculating the worthiness of investing in a specific stock.

Message ChatGPT...

ChatGPT can make mistakes. Consider checking important information.

END-USER VIEW



John Normand

Senior .Net Developer

- Based on the response from ChatGPT, John goes to his dev environment to copy the source code and paste it in as a ChatGPT prompt.

```
1 using System;
2 using System.Net.Http;
3 using System.Threading.Tasks;
4
5 public class MyCompMagicFormula
6 {
7     private string stockSymbol;
8
9     public MyCompMagicFormula(string stock)
10     {
11         stockSymbol = stock;
12     }
13
14     public async Task<double> GetInvestmentWorthiness()
15     {
16         // Simulate calling three different APIs to
17         var api1Data = await CallApi1Async();
18         var api2Data = await CallApi2Async();
19         var api3Data = await CallApi3Async();
20
21         // Simulate some calculations based on the API data
22         double worthinessScore = CalculateWorthinessScore(api1Data, api2Data, api3Data);
23
24         // Return the calculated worthiness score.
25         return worthinessScore;
26     }
27
28     private async Task<double> CallApi1Async()
29     {
30         // Simulate calling API 1 and getting some data
31         await Task.Delay(100); // Simulate delay
32         // For demonstration purposes, let's return a random value
33         return new Random().NextDouble() * 5; // Return a random value between 0 and 5
34     }
35 }
```

Ln: 1 Col: 1 Sel: 2,020 | 58 Windows (CR LF) UTF-8 INS

END-USER VIEW



John Normand

Senior .Net Developer

- John returns to ChatGPT and tries to paste the source code.

The screenshot shows the ChatGPT web interface in a browser. The address bar displays the URL: `chat.openai.com/c/cb513212-f63a-4415-b131-66ca33f27d60`. The interface includes a sidebar on the left with a 'New chat' button and a list of previous conversations. The main chat area shows a conversation with 'ChatGPT 3.5'. The user's message is: 'Can you check my .Net class for security vulnerabilities related to calculating the worthiness of investing in a specific stock.' The ChatGPT response is: 'Sure, I'd be happy to help! Please provide the code for the .Net class you want me to review for security vulnerabilities related to calculating the worthiness of investing in a specific stock.' A context menu is open over the 'Paste' option, with 'Paste as plain text' highlighted. The menu also includes options like 'Undo', 'Redo', 'Cut', 'Copy', 'Select all', 'Spell check', 'Writing Direction', 'Open in reading mode', 'AdBlock', and 'Inspect'. The bottom of the interface shows a text input field with the placeholder 'Message ChatGPT...' and a disclaimer: 'ChatGPT can make mistakes. Consider checking important information.'

END-USER VIEW



John Normand

Senior .Net Developer

Proofpoint DLP solution on John's managed laptop, scans the content attempting to be pasted and the operation is **blocked!**

The content matches confidential crown jewel source code package and classes.

The screenshot shows a web browser window with the address bar displaying `chat.openai.com/c/cb513212-f63a-4415-b131-66ca33f27d60`. The browser tab is labeled "ChatGPT". The page content shows a chat interface for "ChatGPT 3.5". On the left sidebar, there is a "New chat" button and a list of previous chats including "Stock Worthiness Check R...", ".Net Class Review", "Rephrase Internal Response", "User Request Summarized", "Validate Warning Message", and "Upgrade plan". The main chat area shows a message from "You" asking: "Can you check my .Net class for security vulnerability? It's goal is to take care of calculating the worthiness of investing in a specific stock". A modal dialog box is displayed in the center, titled "Operation Blocked" with the "FORTRESS DATA CORP" logo. The dialog text states: "The paste operation was blocked because it contains sensitive data and violates company policy. Please review acceptable use policy." and includes a link "View Acceptable Use Policy". At the bottom of the dialog, it says "Powered by Proofpoint" and has an "OK" button. A mouse cursor is pointing at the "OK" button. At the bottom of the browser window, a footer message reads: "ChatGPT can make mistakes. Consider checking important information."

END-USER VIEW



John Normand

Senior .Net Developer

- John closes the notification after understanding he cannot share this source code with ChatGPT.
- He then asks a second question, relating to unpublished vulnerabilities in their company's source code.

The screenshot shows the ChatGPT web interface in a browser. The address bar shows the URL: `chat.openai.com/c/cb513212-f63a-4415-b131-66ca33f27d60`. The interface includes a sidebar with a 'New chat' button and a list of previous conversations. The main chat area shows a conversation with 'ChatGPT 3.5'. The user has asked: 'Can you check my .Net class for security vulnerability? It's goal is to take care of calculating the worthiness of investing in a specific stock.' ChatGPT has responded: 'Sure, I'd be happy to help! Please provide the code for your .NET class, and I'll review it for security vulnerabilities related to calculating the worthiness of investing in a specific stock.' Below the chat area, there is a text input field with the text: 'Do you know of any unpublished security vulnerability in the source code of the company "Fortress Data Corp"?'. A pink circle highlights a cursor icon over the input field. At the bottom, a small disclaimer reads: 'ChatGPT can make mistakes. Consider checking important information.'

ChatGPT

chat.openai.com/c/cb513212-f63a-4415-b131-66ca33f27d60

New chat

Today

Stock Worthiness Check R ...

.Net Class Review

Previous 30 Days

Rephrase Internal Response

March

User Request Summarized

Validate Warning Message

February

Upgrade plan
Get GPT-4, DALL-E, and more

Lior Tal

ChatGPT 3.5

You

Can you check my .Net class for security vulnerability? It's goal is to take care of calculating the worthiness of investing in a specific stock.

ChatGPT

Sure, I'd be happy to help! Please provide the code for your .NET class, and I'll review it for security vulnerabilities related to calculating the worthiness of investing in a specific stock.

Do you know of any unpublished security vulnerability in the source code of the company "Fortress Data Corp"?

ChatGPT can make mistakes. Consider checking important information.


END-USER VIEW



John Normand

Senior .Net Developer

Proofpoint DLP detects a match to sensitive data with proximity of their source code info to 'security vulnerability'

 New chat

Today

Stock Worthiness Check R ...

.Net Class Review

Previous 30 Days


Rephrase Internal Response


March

User Request Summarized

Validate Warning Message

February

 Upgrade plan
Get GPT-4, DALL-E, and more

 Lior Tal


ChatGPT

chat.openai.com/cb513212-f63a-4415-b131-66ca33f27d60

ChatGPT 3.5

You

Can you check my .Net class for security vulnerability? It's goal is to take care of calculating the


FORTRESS DATA CORP

Operation Blocked
The Generative AI prompt was blocked because it contains sensitive data and violates company policy. Please review company policy to safely use Generative AI applications.
[View Gen AI Acceptable Use policy](#)

Powered by Proofpoint

OK

Do you know of any unpublished security vulnerability in the source code of the company "Fortress Data Corp"?

↑

ChatGPT can make mistakes. Consider checking important information.

SOC ANALYST VIEW



Jack Bauer
DLP Analyst

Then, at the SOC...

- Jack is monitoring possible risky activities of people working for the company



SOC ANALYST VIEW



Jack Bauer
DLP Analyst

- The analyst starts in the Information Protection console to review risky users
- It also provides an overview of activities that are being monitored by the solution
- He drills into the one of the users- John Normand.



SOC ANALYST VIEW



Jack Bauer
DLP Analyst

- The Information Protection console provides a comprehensive view of user's activities and alerts they triggered.
- Here you see two of John's (developer) prompts were blocked, while one was allowed.
- The analyst can also see other activities for context- John used notepad++ app to view Crown Jewel code

proofpoint Analytics

+ New Exploration

Search users, endpoints, etc. in the last 7 days

51 ? Jack Bauer ACME-02

← Explorations / Untitled

Save New Add Tag GMT+3

+ SHOW FILTERS REGION: US1 TIME: 24 HOURS SOURCE: ENDPOINT, ISOLATION, ICAP, PLATFORM DETECTIONS USER NAME: LTAL

+ SHOW HISTOGRAM APR 17, 2024 1:53 PM - APR 18, 2024 1:53 PM GMT+3

+ SHOW SUMMARY 46 Activities Edit Columns

ACTIVITY Categories (29)	USER Aliases (61)	ACTIVITY Summary
GenAI Prompt Submit Web Browsing Blocked	John Normand jnormand@ainvest.com, jnormand	ENDPOINT - HOSTNAME TLV-938W1F3
Paste Text From Clipboard Blocked Website Open, Web Browsing, Application Use	John Normand jnormand@ainvest.com, jnormand	ENDPOINT - HOSTNAME TLV-938W1F3
GenAI Prompt Submit Web Browsing	John Normand jnormand@ainvest.com, jnormand	ENDPOINT - HOSTNAME TLV-938W1F3
Website Open Application Use	John Normand jnormand@ainvest.com, jnormand	ENDPOINT - HOSTNAME TLV-938W1F3
Application Open	John Normand jnormand@ainvest.com, jnormand	ENDPOINT - HOSTNAME TLV-938W1F3
Application Open Application Use	John Normand jnormand@ainvest.com, jnormand	ENDPOINT - HOSTNAME TLV-938W1F3
Web Browsing Application Use	John Normand jnormand@ainvest.com, jnormand	ENDPOINT - HOSTNAME TLV-938W1F3
Website Open Web Browsing, Application Use	John Normand jnormand@ainvest.com, jnormand	ENDPOINT - HOSTNAME TLV-938W1F3
Web Browsing	John Normand	ENDPOINT - HOSTNAME

WEBSITE - URL DOMAIN
chat.openai.com

USER INTERFACE - WINDOW TITLE
ChatGPT

WEBSITE - URL DOMAIN
chat.openai.com

USER INTERFACE - WINDOW TITLE
ChatGPT

WEBSITE - URL DOMAIN
chat.openai.com

USER INTERFACE - WINDOW TITLE
ChatGPT

WEBSITE - URL DOMAIN
chat.openai.com

USER INTERFACE - WINDOW TITLE
ChatGPT

PROCESS/APPLICATION - APPLIC...
Notepad++

USER INTERFACE - WINDOW TITLE
AINvestMagicFormula.cs

PROCESS/APPLICATION - APPLIC...
POWERPNT

USER INTERFACE - WINDOW TITLE
GenAI - Flow of screenshot...

WEBSITE - URL DOMAIN
app.oitroot.us-east-1-stage...

USER INTERFACE - WINDOW TITLE
Proofpoint Analytics Conso...

WEBSITE - URL DOMAIN
app.oitroot.us-east-1-stage...

USER INTERFACE - WINDOW TITLE
Proofpoint Analytics Conso...

WEBSITE - URL DOMAIN

USER INTERFACE - WINDOW TITLE

Protect sensitive data across complex data environments

IaaS + PaaS



S3 Buckets
EBS
RDS
Redshift
DocumentDB

Memory DB
DynamoDB
Keyspaces
Elasticache
EC2 and DBs



Buckets
CloudSQL
MemoryStore

BigQuery
BigTable



Blob Store
File Share
SQL Server
MYSQL Server
PostgreSQL Server

Azure Cache
CosmosDB
Synapse Analytics
MariaDB
NetApp Files



DPaaS + SaaS



Snowflake
Google Drive
OneDrive
Teams
SharePoint
Salesforce
Databricks
ServiceNow



On-Premises



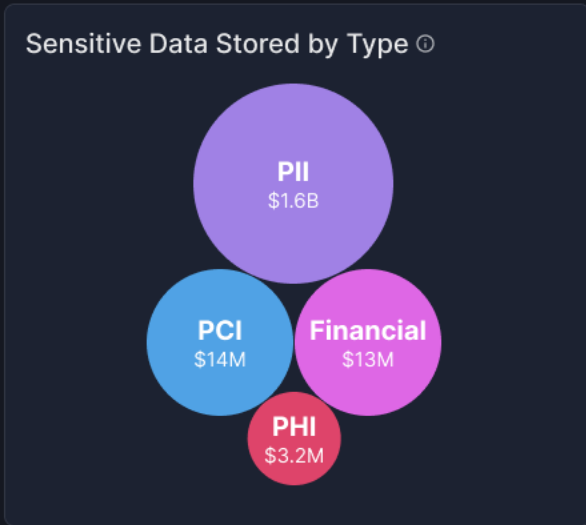
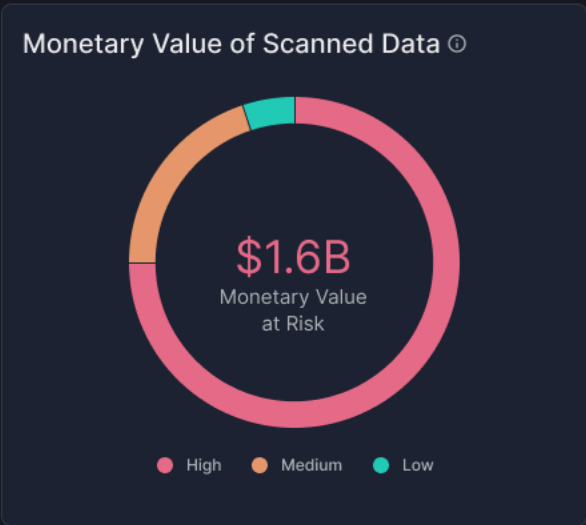
Windows File Share
MySQL
Postgres
MSSQL
MongoDB
Oracle DB
Network File Share



Dashboard

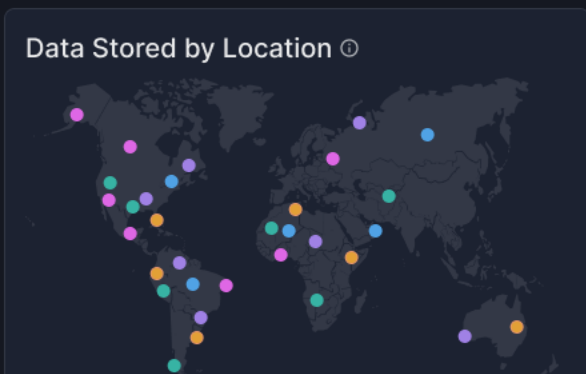
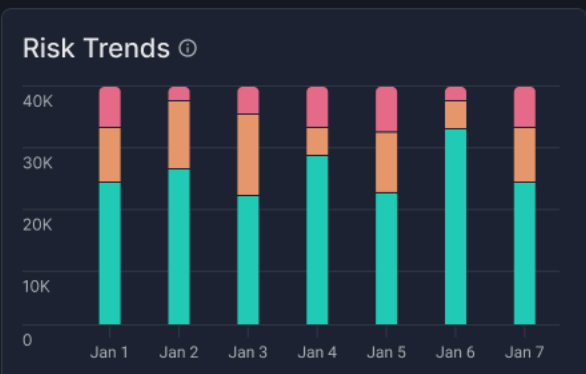
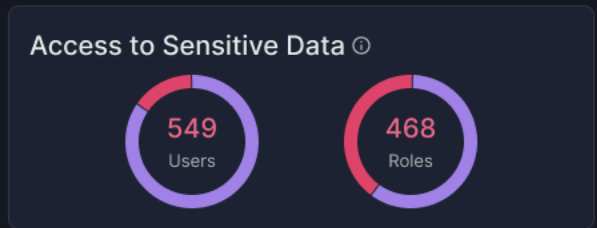
Last 7 Days

Export Data



Data Stores Needing Attention

	150	223	419
Likelihood	1	87	3
Impact	867	0	0

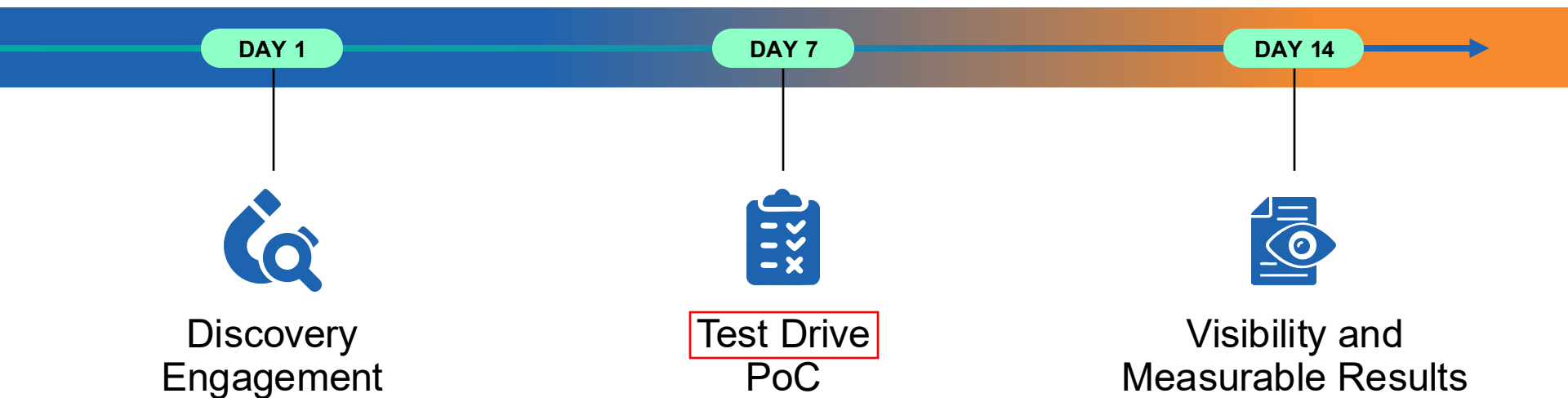


Risks by Exposure

View All

Storage	Exposure	Risks
Azure	Not encrypted with managed k...	24K
Azure	VM publicly exposed via public...	11K
AWS	Accessible by an external princi...	963
GCP	Accessible by users without MFA	528
AWS	Accessible by external or guest...	312
SaaS	EC2 instance with public acces...	105

We're ready for your data security priorities





proofpoint.

QUESTIONS AND ANSWERS
