

## **Cybersecurity Assessment**

**Engagement Overview** 





# Introducing the Cybersecurity Assessment

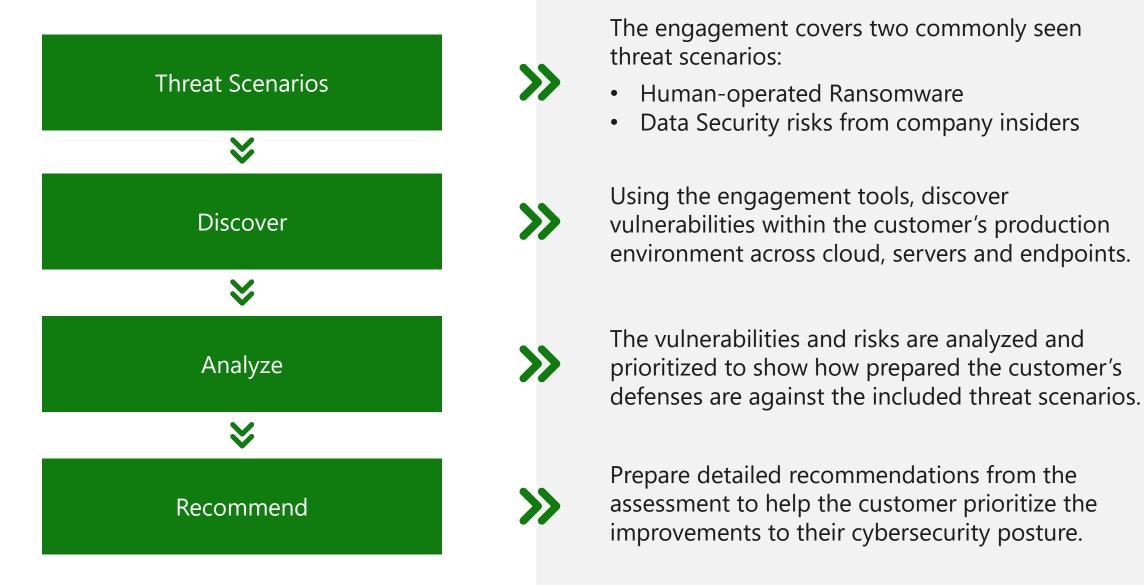
Discover vulnerabilities to Microsoft cloud and on-premises environments.





## **Engagement Methodology**





## **Top Human-operated Ransomware Concerns**





Organizations struggle with maintaining basic cybersecurity hygiene

98%

of ransomware attacks can be traced to common configuration errors in software and devices. <sup>1</sup>

Ransomware attacks have been steadily increasing

37%

of all businesses and organizations were hit by ransomware in 2021.<sup>2</sup>

Recovering from a ransomware attack is costly

\$1.85M

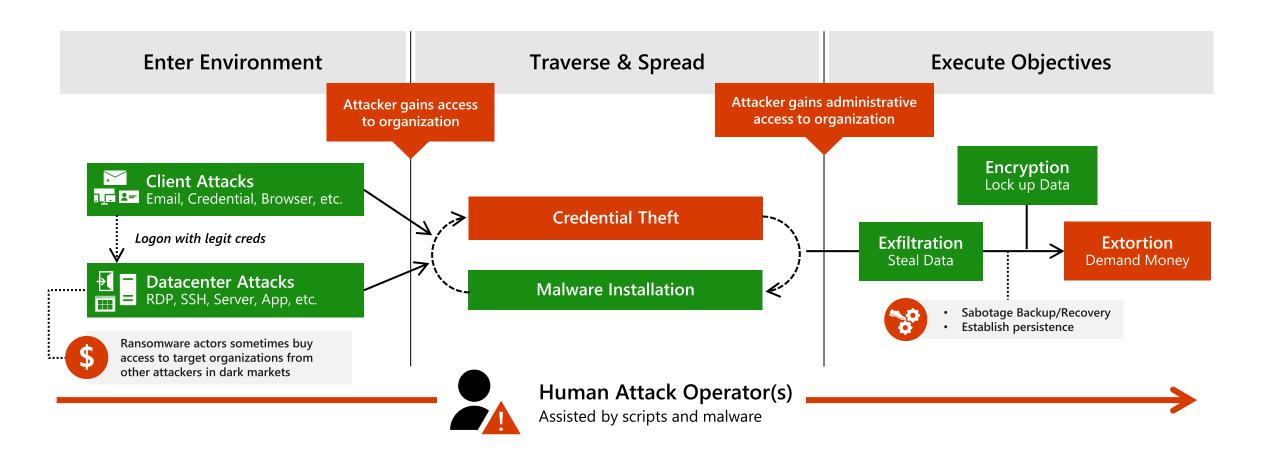
Recovering from a ransomware attack cost businesses \$1.85 million on average in 2021.3

- 1. Digital Defense Report 2022, Microsoft
- 2. Ransomware Statistics, Trends and Facts for 2023 and Beyond
- 3. Ransomware Statistics, Trends and Facts for 2023 and Beyond



## **Human-operated Ransomware Overview**

**Human-operated ransomware** is the result of an **active attack** by cybercriminals that infiltrate an organization's on-premises or cloud IT infrastructure, elevate their privileges, and deploy ransomware to critical data.



## Top data security concerns





Data security incidents are widespread

83%

of organizations experience more than one data breach in their lifetime<sup>1</sup>

Malicious insiders account for 20% of data breaches, adding to costs

\$15.4M

Total average cost of activities to resolve insider threats over 12 month period<sup>2</sup>

Organizations are struggling with a fragmented solution landscape

80%

of decision makers purchased multiple products to meet compliance and data protection needs<sup>3</sup>

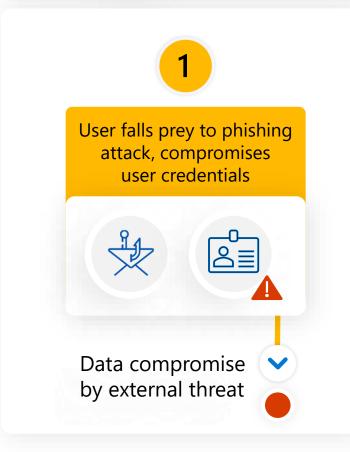
- 1. Cost of a Data Breach Report 2022, IBM
- 2. Cost of Insider Threats Global Report 2022, Ponemon Institute
- 3. February 2022 survey of 200 US compliance decision-makers (n=100 599-999 employees, n=100 1000+ employees) commissioned by Microsoft with MDC Research

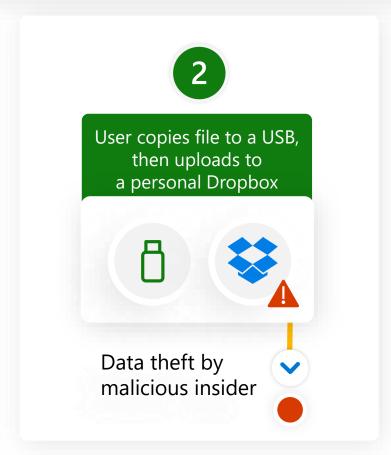


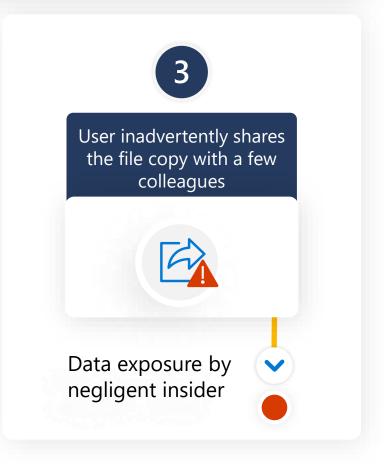
## Data security incidents can happen anytime, anywhere



Data at risk of misuse if organization has no visibility into their data estate







## What we'll do during the engagement





Analyze the customer's environment and current cybersecurity maturity level based on v8 of the CIS Critical Security Controls.



Define scope & deploy Microsoft
Defender Vulnerability
Management and
Insider Risk Analytics
in the customer's
production
environment.



Perform a vulnerability assessment and assist with the prioritization of vulnerabilities and misconfigurations across the customer's organization.

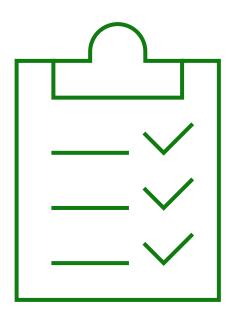


Perform a data security assessment, discover and evaluate sensitive information and potential insider risks in the customer's organization.



Plan next steps on how to improve the customer's cyber and data security posture and how you can work together for future engagements.

## **Objectives and Approach**





#### Discover vulnerabilities

Gain visibility into vulnerabilities to the customer's Microsoft 365 cloud using Microsoft Secure Score.

Discover and analyze vulnerabilities to servers and endpoints using Microsoft Defender Vulnerability Management.

## Explore and Evaluate sensitive information and potential insider risk

Gain visibility into sensitive information discovered by Microsoft Purview Information Protection.

Explore potentially risky data handling activities identified by Microsoft Purview Insider Risk Management Analytics.

#### Define next steps

As part of the engagement, work together with the customer to define a list of next steps based on their needs, objectives, and results from the Cybersecurity Assessment.





#### Pre-engagement Call – 1 hour

- Introductions
- · Engagement walk-through
- Expectations
- What's next

## Prepare, Send and Review the Engagement Questionnaire – **0.5** hour

- Prepare and send the questionnaire.
- · Review the completed questionnaire.

## Engagement Setup and Scope Definition Meeting – 1 hour

- Overview of the engagement products
- Engagement scope and design decisions

#### **Change Management** (Optional)

 Customer to go through their change management process and obtain approval for configuration changes as per defined scope

#### General Configuration – **0.5** hour

- Setup trial licenses & subscription
- Setup pre-requisites for engagement tools
  - Configure any required Microsoft 365 tenant settings.
  - Microsoft Defender Vulnerability Management
  - Microsoft Purview Insider Risk Management analytics

Microsoft Defender Vulnerability Management Configuration – 1.5 hours

 Configure Microsoft Defender Vulnerability Management

Insider Risk Management Analytics Configuration – **0.5** hour

Setup

 Configure Microsoft Purview Insider Risk Management

#### Cloud Discovery (Optional)

One-time upload of cloud discovery logs \*

Engagement

Preengagement

\* Unless using Microsoft Defender for Endpoint as a source of the cloud discovery data.

Data Collection (min. 7d)





#### Vulnerabilities Exploration – 1 hour

- Explore vulnerabilities in:
  - Microsoft Defender Vulnerability Management
  - Microsoft Secure Score

#### Data Security Exploration – 1 hour

Explore data security risks from company insiders.

#### **Cloud Discovery Exploration (Optional)**

- **1** hour

• Explore cloud application usage in Microsoft Defender for Cloud Apps.

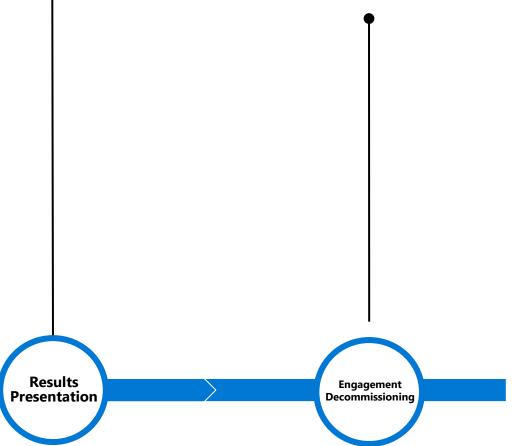
**Exploration** 

#### Results Presentation – 2 hours

• Results presentation and Next Steps discussion.

#### Engagement Decommissioning – 1 hour

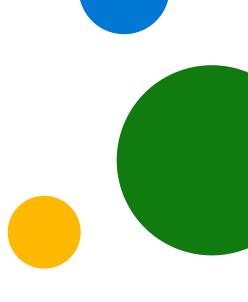
- Remove uploaded logs
- Remove configuration changes
- Deactivate trial licenses



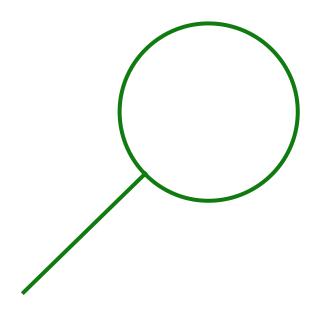
## After the Cybersecurity Assessment, the customer will...

- Better understand, prioritize, and address cybersecurity vulnerabilities and how to improve their defenses against human-operated ransomware.
- Better understand, prioritize, and address data security vulnerabilities and how to minimize data security risks from company insiders.
- Have defined next steps based on the engagement findings and their needs and objectives.





## **Out of Scope**





- Configuration of Microsoft Security tools beyond the engagement tools:
  - Microsoft Defender for Endpoint
  - Microsoft Defender Vulnerability Management
  - Microsoft Purview Information Protection
  - Microsoft Purview Insider Risk Management Analytics.
- Deep analysis (investigation) of threats found during the engagement
- >>> Incident response
- >> Forensic analysis
- >>> Technical designs or implementations
- Proof of Concept or Lab Deployment

### **Data Collection**

- >> Vulnerabilities and misconfigurations detected by the engagement tools.
- Minimum of 7 days duration to allow us to gather enough data to analyze.
- Upload of Cloud Discovery logs (towards the end)\*.

\* Unless using Microsoft Defender for Endpoint as a source of the cloud discovery data.





# **Engagement Phases: Exploration**





## **Vulnerabilities Exploration**

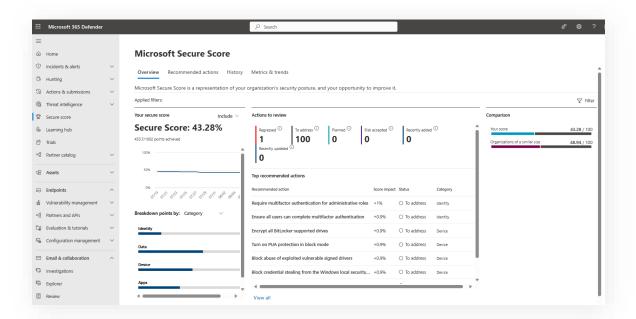
Help the customer gain visibility into vulnerabilities in their cloud and onpremises environments obtained through Microsoft Secure Score and Microsoft Defender Vulnerability Management.

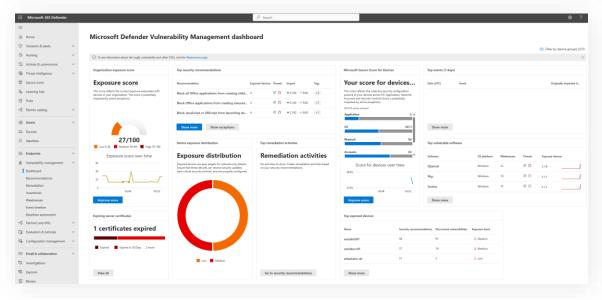


Provide recommendations on:

 How to discover and prioritize vulnerabilities and misconfigurations.



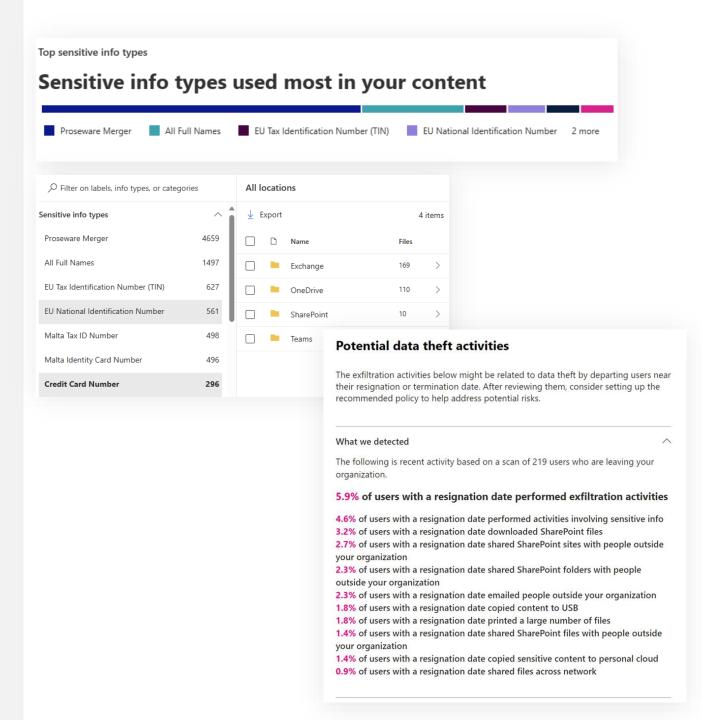




## **Data Security Exploration**

- Help the customer gain visibility into data security risks in their organization obtained through zero change management configurations.
- Provide snapshots of what sensitive information exists within the customer's Microsoft 365 environment
- Conduct an evaluation of potential insider risks in the customer's organization without configuring any insider risk policies.

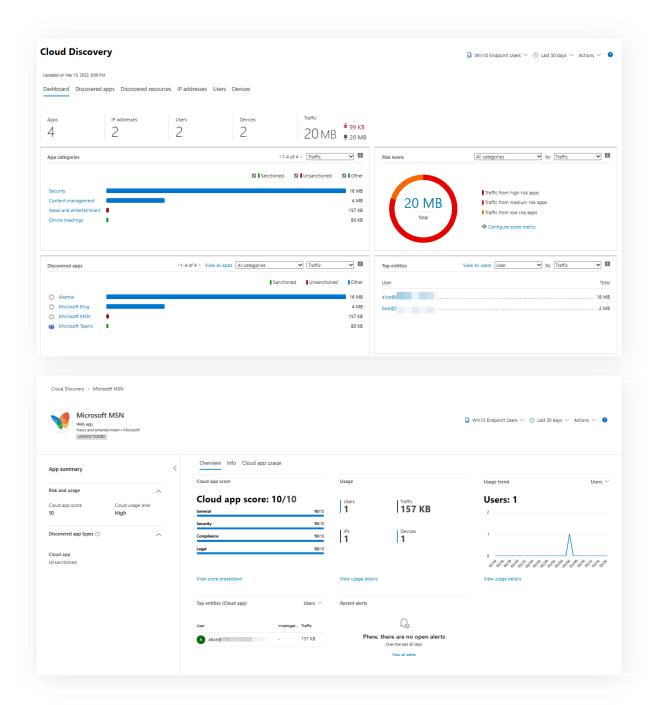




## Cloud Discovery Exploration - Optional

- Help the customer gain visibility into Shadow IT usage, identifying apps accessed by users across their organization using Microsoft Defender for Cloud Apps.
- than 90 risk indicators, allowing you to sort through the discovered apps and assess the customer's security and compliance posture.





Engagement Phases: Results Presentation and Next Steps Discussion





## Results Presentation and Next Steps Discussion

- Findings and recommendations from the Vulnerabilities Exploration
- Findings and recommendations from the Data Security Exploration
- Findings and recommendations from the Cloud Application Discovery
- Technical and strategic-level next steps
- Agree on follow-up engagements

