



The Evolving Cyber Threat Landscape

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Cloud Solution Architect Security



The New Hork Times

Once, Superpower Summits Were About Nukes. Now, It's Cyberweapons.











CYBERSECURITY



State Department breach

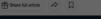








disrupt services.



The Washington Post

Cybersecurity faces a challenge from artificial intelligen es i







POLITICO

Chinese hackers nab 60,000 emails in

If it were measured as a country, then cybercrime - which is predicated to inflict dames totaling \$6 trillion USD globally in 2021 - would be the world's third largest economy after the U.S. and China.

THE WALL STREET JOURNAL.

The New Hork Times

In Cyberattacks, Iran Shows Signs of

Improved Hacking Capabilities A monthslong hacking campaign targeted the governments of regional rivals, including Israel, and marked a turn, a new report says, as the attacks were used to collect intelligence, not just

The Chinese groups accused of hacking



FINANCIAL TIMES

Cyber Security + Add to myFT

ECB tells banks to run cyber stress tests after rise in hacker attacks



The Washington Post

Think ransomware gangs won't thrive this year? Think again, experts say





Welcome to The Cybersecurity 202! And greetings from (just



Biden: If U.S. has 'real shooting war' it could be result of cyber attacks





Al-enabled Cyberattacks



Chatbots, deepfakes and voice clones

Federal Trade Commission Article



WithSecure-Creatively Malicious

PDF



Fraudsters Cloned Company Directors Voice

Forbes Article



How Hackers Use Generative Al

Article



Researcher Deepfakes His Voice

Vice Article



Blackmamba Chatgpt polymorphic

Blog post

Ransomware infection to full victim encryption

3 Days

2019





Ransomware infection to full victim encryption

1 Day

2021







Today

<15 Minutes



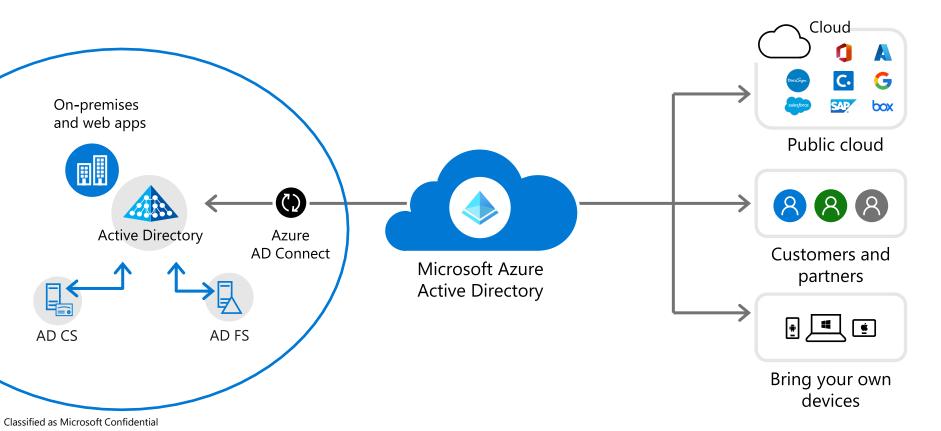
Destructive human operated ransomware breach to full tenant encryption fueled by the growth in cybercrime-as-a-service

Protection?



Enterprise identity security landscapes

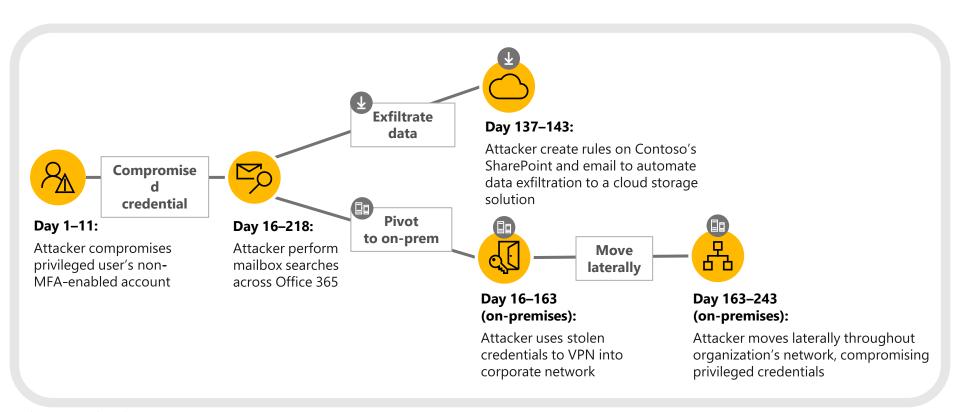
Security environments are complex—and include both on-premises and cloud assets





Anatomy of an on-premises and cloud environment attack

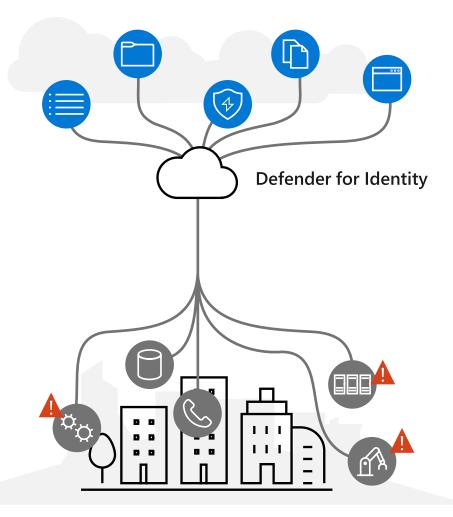
An example of an attack that compromises an entire organization





Cloud

Microsoft Defender for Identity monitors on-premises resources and integrates with cloud security solutions



On-prem



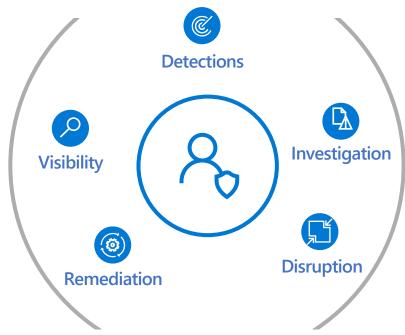
MDI and **MDE** Better Together





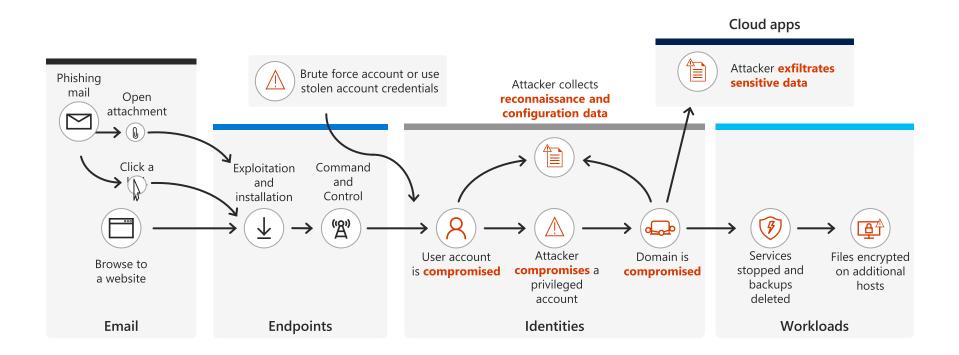
MDE + MDI = XDR

Microsoft Defender for Endpoint



Microsoft Defender for Identity

Attacks are crossing modalities Typical human-operated ransomware campaign

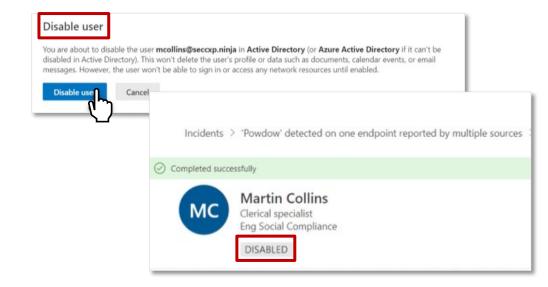




Supported Actions (MDI)

Disable user in Active Directory

- Leverage MDI's remediation actions
- Prevent user from logging in to the onpremises network
- Identity status will be synced to AAD in the next AD sync



And Cloud?



Entra ID Protection

Unique insights powered by trillions of signals

Autogenerated



- High quality heuristic-based detections
- Detections from other first parties



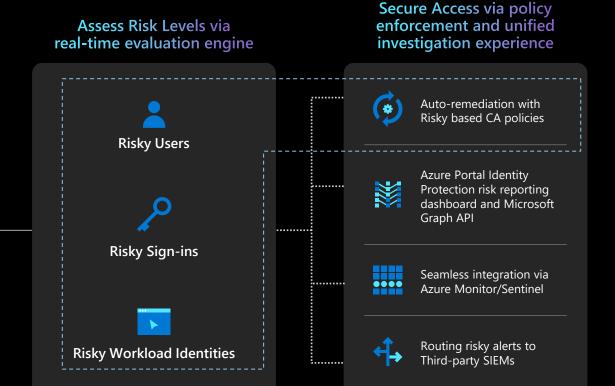
Expert generated

- Security researchers
- Customer support
- Dedicated human labelers



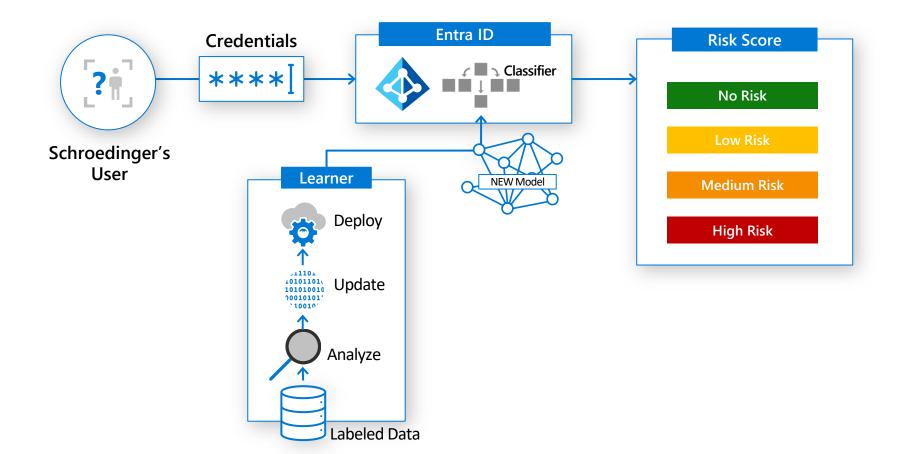
End user generated

- Build feedback loops
- End users/admins/secops
- Remove errors

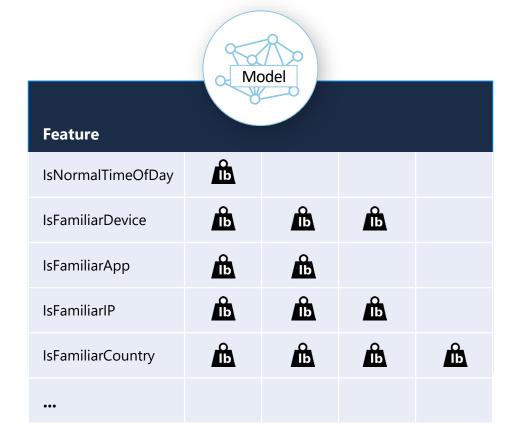




ML to calculate session risk

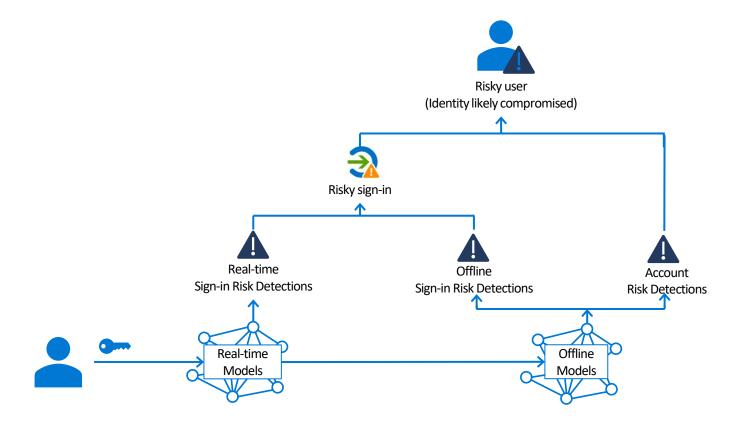


ML model weighting example



- Model Training indicates what is the most important compromise indicators at that point in time based on the training data
- Allows the ML system adapt to new attacks on the fly, just retrain the model

Risk reporting





Microsoft Security Copilot Announced March 2023

Microsoft Security Copilot

Defending at machine speed

"It takes us three minutes to do a task that used to take at least a few hours"

- Private preview customer



Enable response in minutes, not hours



Simplify the complex with natural language prompts and easy reporting



Catch what others miss with deeper understanding of your enterprise



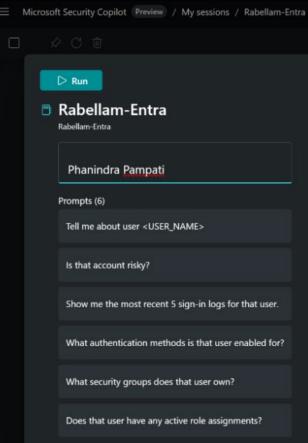
Upskill your security talent with cyber-trained generative Al

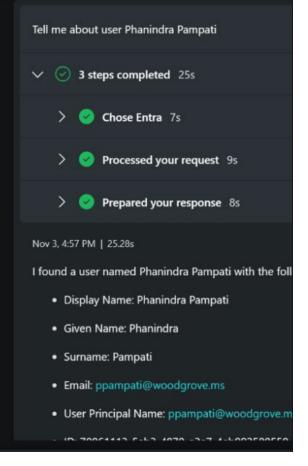
Demo





Security Copilot Demos





Takeaways

Use Azure AD
Conditional Access with
risk-based policies

Use the APIs to get information and post operations to manage risk

Thank you





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