

SHIELD

Microsoft XDR and Logic Apps

11/03/2025

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Where to find us.



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X

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Have you been hacked?

Emergency Response



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About NVISO



Our Company



Our DNA



Our Research

NVISO is a pure play **Cyber Security services firm** of 300+
specialized security experts and founded in 2013.

Initially founded in **Belgium**, we've been in **Germany** since 2019, and **Greece** & **Austria** since 2022.

Our mission is to safeguard the foundations of European society from cyber attacks.

We are proud: we are proud of who we are and what we do.

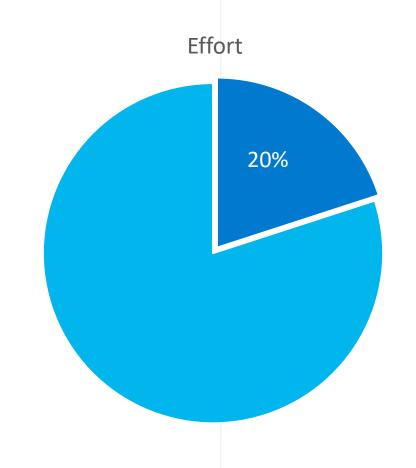
We care: we care about our customers and people.

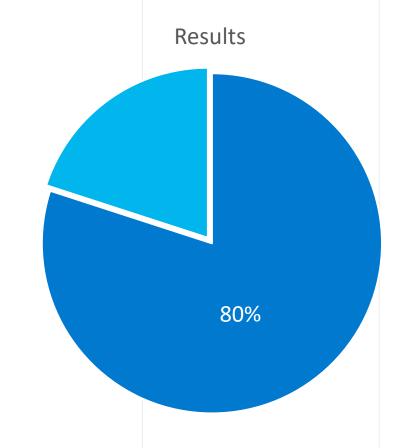
We break barriers: We challenge the status quo by continuous innovation.

No BS: We keep our promises and don't fool around.

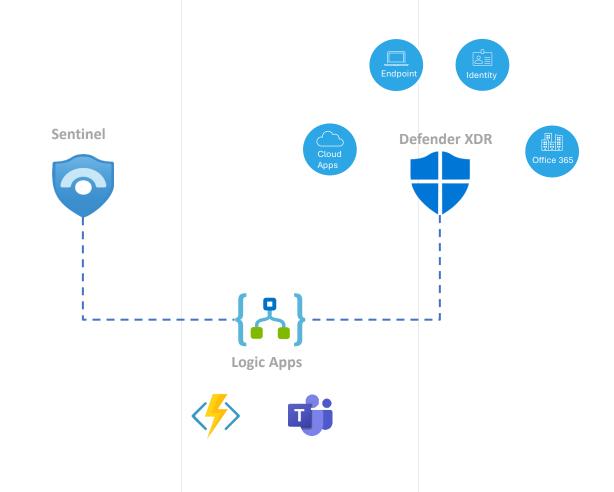
We **invest 10% of our annual revenue** in research of new security techniques and the development of new solutions.

Pareto Principle





XDR and Logic Apps Concept



XDR Components

	Tool	Detect	Respond
Endpoint	Defender for Endpoint	 Process creation Registry changes File changes Network events Logon events >100 other actions 	 Isolate the Host Quarantine files/processes Collect forensic artifacts Interactive Response Session Restrict app execution Block Hash
© SE Identity	Defender for Identity	 AD Logons Changes to directory objects (create/update/delete) Users Devices Groups 	 Disable a user Force password change on logon
Office 365	Defender for Office365	 Email sent/received with attachment and URL info Links clicked in emails/Office documents 	Quarantine emails
Cloud Apps	Defender for Cloud Apps	App activity	Disable users in appsPrevent access to appsBlock apps

XDR Components: Mitigating a Phishing Attack

Attack attempts:



Phishing mail



a mail

attachment







Mitigated by:

Defender for Office 365



Malware is installed

Defender for

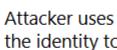
Endpoint





Attacker gets the user identity





the identity to move laterally



Attacker gets and exfiltrates sensitive data

Defender for Identity

Defender for Cloud Apps

Integrations & Connectors

Incident playbooks

Response actions

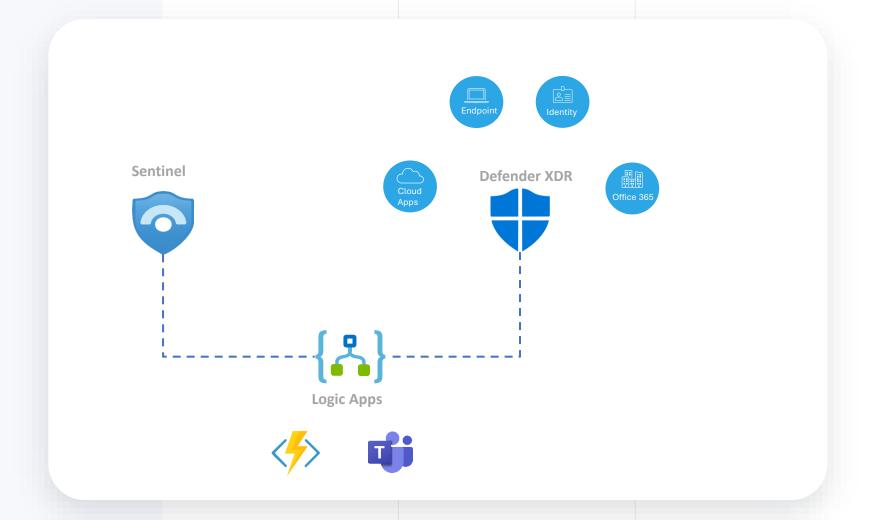
Automation playbooks

Code Execution

Playbook categories

Enrichment

Alerting



Integrations & Connectors

Incident playbooks

Response actions

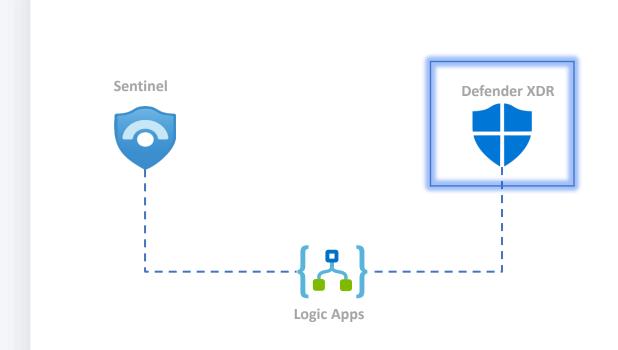
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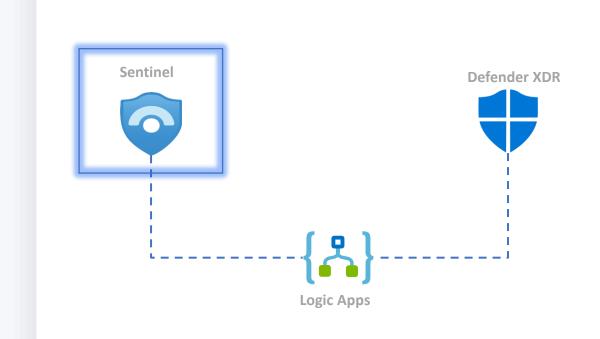
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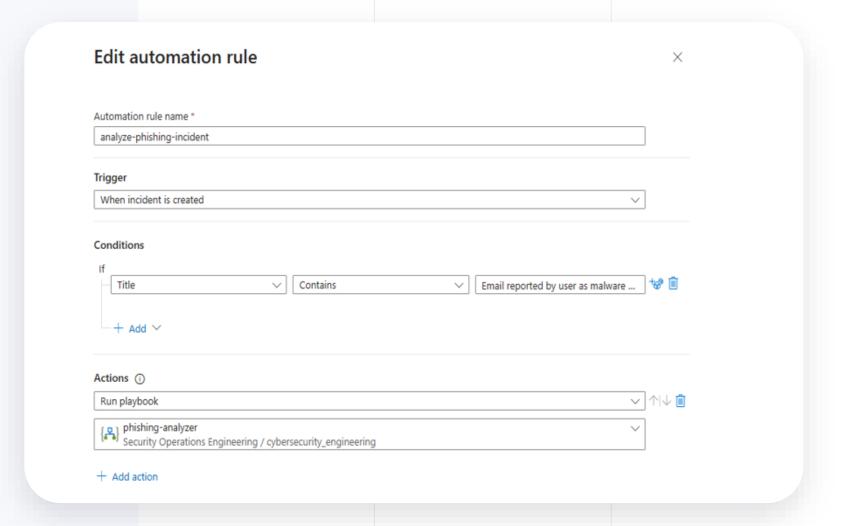
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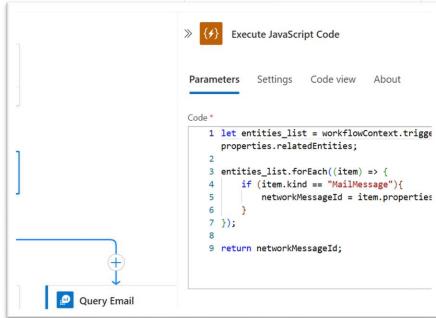
Alerting



Integrations & Connectors Incident playbooks Response actions Automation playbooks

Code Execution

Enrichment



enrichmentMarkdownFormat / function_app.py >

if not emailheaders:

pass

else:

except ValueError:

emailheaders = req.params.get('emailheaders')

req_body = req.get_json()

Iterate through all headers in email

Handle Authentication-Results header

if header['name'] == 'Authentication-Results':

print(type(authentication_html_list)) auth list = header['value'].split(':')

authentication_html_list = ['<table border="1" style="border-colla

for header in emailheaders_list:

#logging.info(header)

209 210

211

212 213

214

215

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217

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219 220 221

222

223

224 225

226

227

228

☐ Save
☐ Discard
☐ Refresh
☐ Test/Run
☐ Get function URL
☐ Disable
☐ Delete
☐ Up emailheaders = req_body.get('emailheaders') emailheaders_list = emailheaders['value'][0]['internetMessageHeaders']

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Integrations & Connectors
Incident playbooks
Response actions
Automation playbooks
Code Execution

Playbook categories

Enrichment Alerting Response



Enrichment

Collect data from integrated sources and present them to analysts in the comments section, that will guide the analyst during the alert triage.



Alerting

A message will be sent to SOC channel in MS Teams to make sure a critical incident will be acknowledged promptly.



Response

Take immediate actions on incident entities.

Integrations & Connectors
Incident playbooks
Response actions
Automation playbooks
Code Execution
Playbook categories

Enrichment

Alerting Response



Phishing Analysis

Collect data about suspicious email activity, analyze email headers, check for URLs and attachments ...



User account

Query Entra ID, check Entra ID Protection, look for suspicious activity ...



Host Enrichment

Query MDE to get all information about machine, get logged-on users ...



Suspicious Access

Check source IP address of access attempt, compare the IP's geolocation to the user's location in Entra ID, find other users with access attempts from the same IP address, check authentication details like MFA ...

Integrations & Connectors
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Automation playbooks

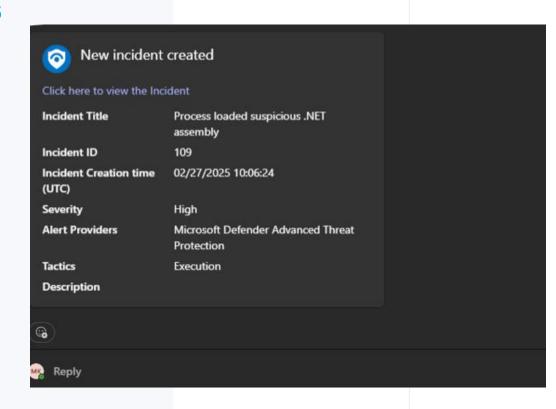
Code Execution

Playbook categories

Enrichment

Alerting

Response





MS Teams

- Run on 'High' severity alerts
- Notify a Teams channel
- Acknowledge an incident faster

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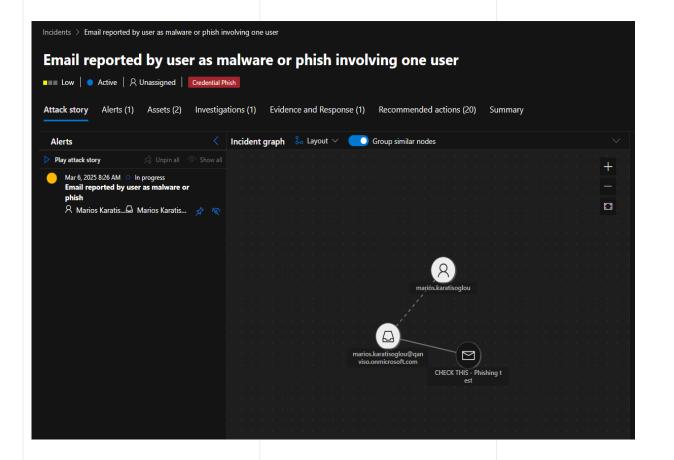




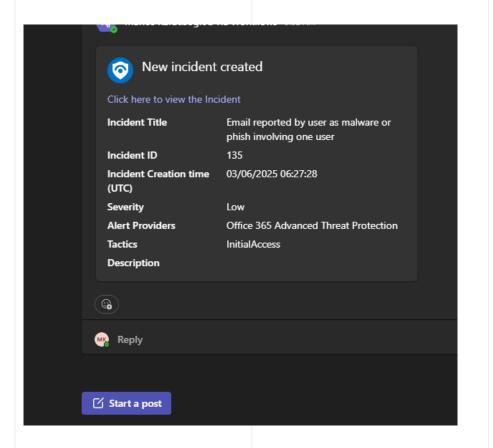


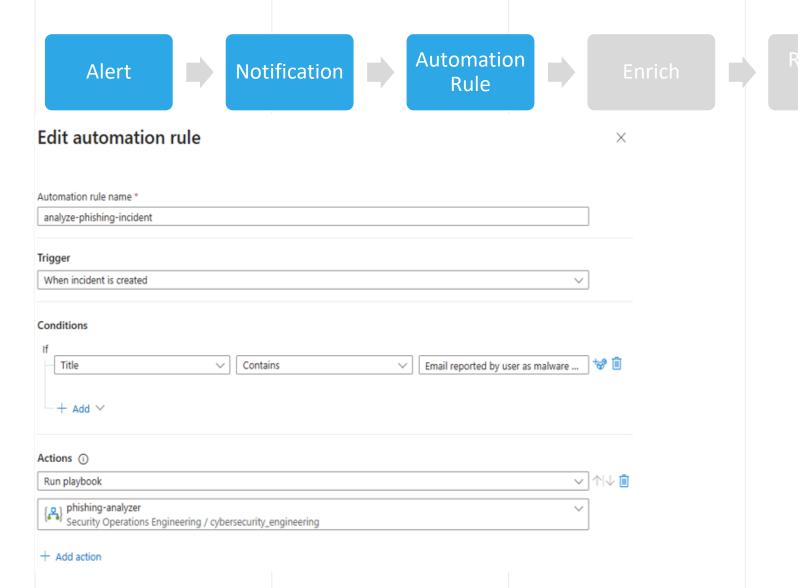




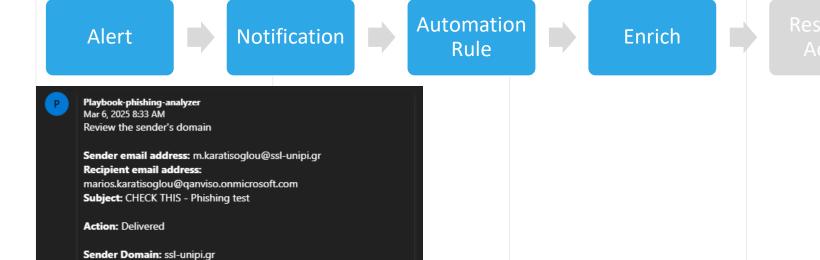








Use Case: Phishing Incident



Email body
Email headers
User clicks
Attachment

ואות כבוב בשטם ,ס ואואו

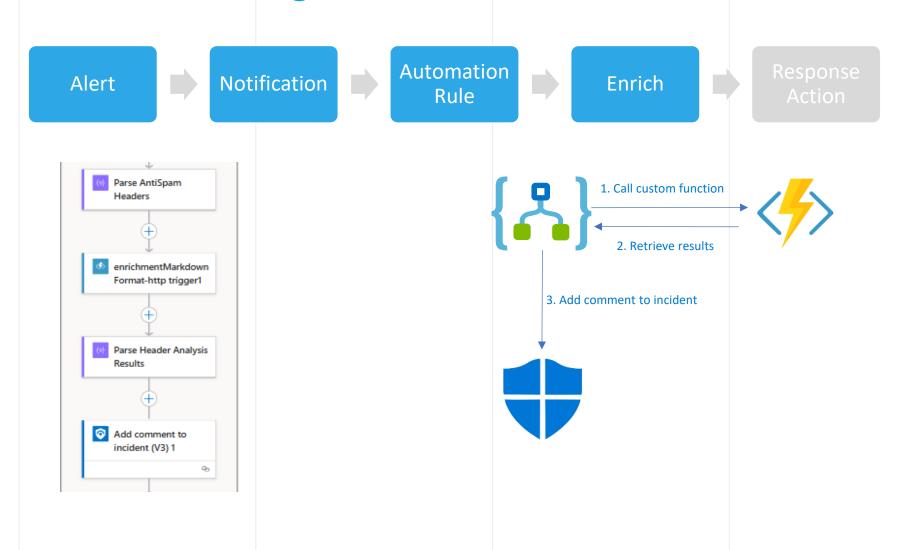
Review email body

Dear,

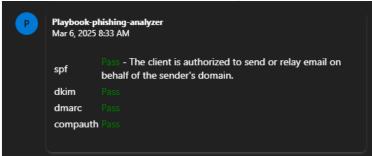
We recently detected unusual activity on your account and suspect unauthorized access. To protect your information, we require immediate verification of your account.

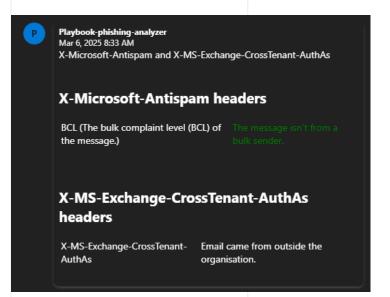
Please click the secure link below to verify your identity and prevent account suspension:

Verify My Account Now





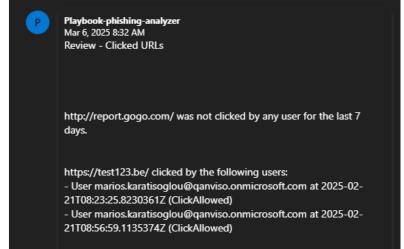


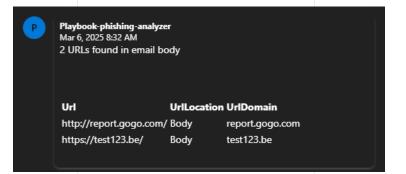




- Email body
- Email headersUser clicksAttachment



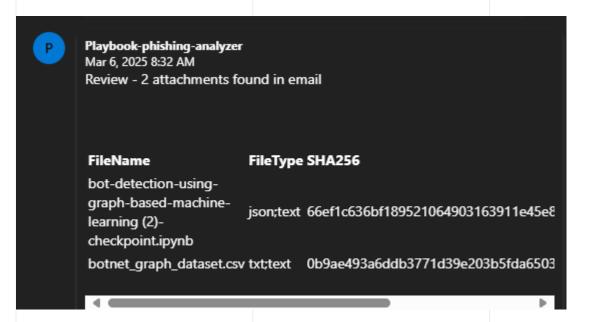




- **E**mail body
- Email headers
- ✓ User clicks Attachment

Use Case: Phishing Incident



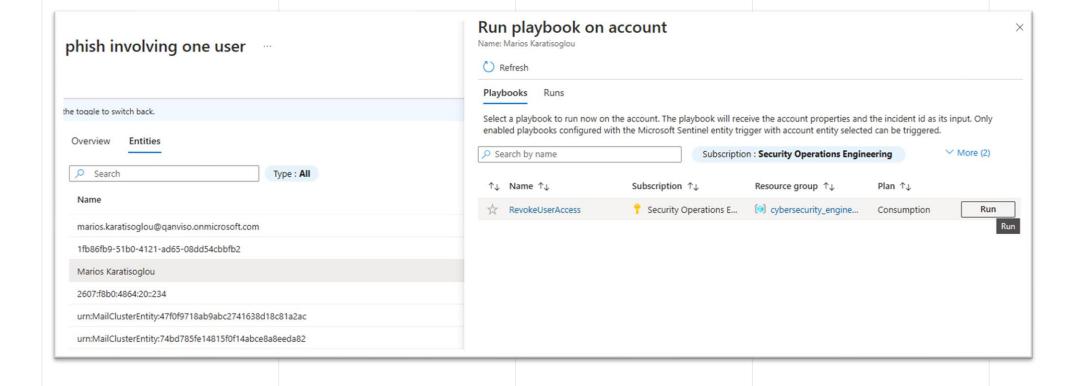


Email headers

User clicks

Attachment





Thanks! Questions?

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