

#### Nieuws

**Dutch iT Channel** 

Projecten ~

Thema's ~

Evenementen

Agenda

Meer ~

Dutch IT Leaders ☑

**WOUTER HOEFFNAGEL - 08 MEI 2024** 

Deel dit artikel









### **Aantal cyberaanvallen in Nederland** bovengemiddeld hard gegroeid

Het aantal wekelijkse cyberaanvallen is in het eerste kwartaal van 2024 in Nederland harder gestegen dan de wereldwijde trend. De onderwijs- en onderzoekssector is daarbij de meest geviseerde sector met gemiddeld 1301 aanvallen per week.

Security

Data protection

Hardware

### Impact

Hackers vragen vaak 2% van de jaaromzet als losgeld, terwijl het IT budget over het algemeen 3-5% van de jaaromzet is. De boete van de ransomware aanval (enkele tonnen) zijn daarnaast niet de enige kosten die hiermee gemoeid gaan.

#### Kosten zitten met name ook in:

- Reputatie schade
- Het niet kunnen geven van onderwijs voor 3 weken
- Inschakelen van IT bedrijven voor incident response
- Verlies van gegevens
- Herstelkosten

Bron: Dutch IT Channel

### Normenkader

Eerste prioriteit zou uit moeten gaan naar:

- Bescherming van de medewerker op technisch vlak (betere detectie tooling)
- Bescherming van de medewerker door trainen bewuswording (security awareness)
- Identity and Access Management (zero trust ontsluiten van toegang tot M365 om account take-overs tegen te gaan)
- Incident Beheer: incident reponse
- Back-up en herstel (cloud to cloud backup en archivingzijn onderdeel van het pakket

#### Mitigeren hoge risico's

Voor de mitigatie van de hoge risico's zijn de volgende onderdelen van belang: Risicomanagement, Personeelsbeheer (het veiligheidsbewustwording bij medewerkers en technisch veilige omgeving voor wijzingen), Identity en Access Management, Security Management (het beheer fysieke toegangsrechten), IT-operatie (back-up en herstel), Bedrijfscontinuïteitsmanagement en Leveranciersmanagement. In Tabel 17 is een selectie gemaakt van de percentages van schoolbesturen dat op deze domeinen de norm haalt. De tabel toont aan dat zelfs bij de domeinen met de hoogste scores hooguit een kwart van de besturen voldoet aan de norm. Hiermee heeft slechts een klein deel van de besturen de maatregelen genomen om de hoge risico's op het vlak van informatiebeveiliging te mitigeren.



### Email attacks in 2024: what's the risk?



75%

Organizations experienced a successful email attack in 2023



\$1M

Serious attacks are expensive:

Downtime
Data loss
Reputation
Ransoms



98%

Organizations are not fully prepared to deal with email security risks



# Phishing is **STILL** the primary risk surface



#### Today, Ransomware is the most prevalent attack type

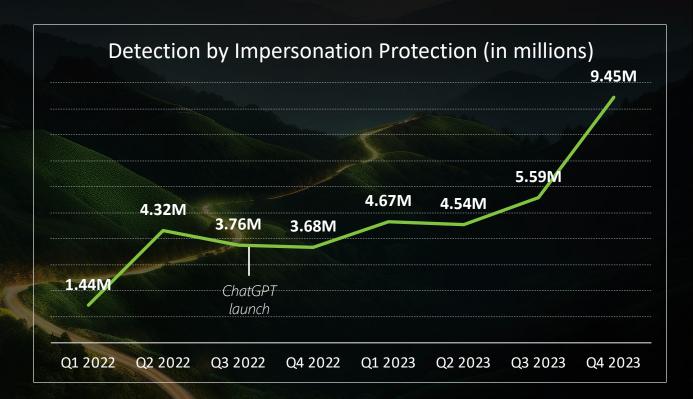
Example ransomware attack chain



## Surge in phishing with GenAl-based attacks

Phishing detections significantly increased in the past 18 months

- ChatGPT enables hackers to scale up attacks
- Solution: continuous improvement in detection efficacy



## Secure your email, users, data, and access

### THREAT PREVENTION

Spam, Malware, and ATP

Phishing and Impersonation Protection

Account Takeover Protection

Domain Fraud Protection

Web Security

Zero Trust Access for Microsoft 365

#### DETECTION AND RESPONSE

Incident Response

Security Awareness Training

### DATA PROTECTION AND COMPLIANCE

Email Encryption and DLP

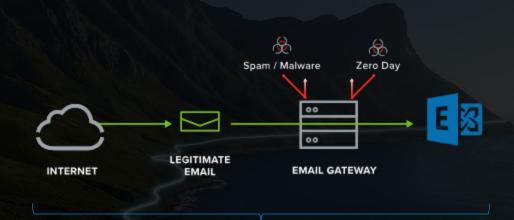
Cloud-to-Cloud Backup

Cloud Archiving Service

Data Inspector™

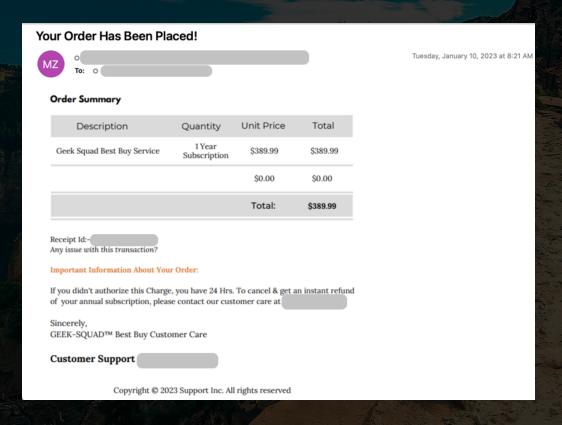


# Gateway defense: stop volumetric attacks



- Blocks spam and malware
- Protects against bad links and attachments
- Intercepts sensitive data leaving your organization
- Encrypts outbound email

# Detecting Image-based phishing using ML



# Detecting QR Code attacks using ML



r Email Autentication session is expiring today Friday/September/2023 17:28 PM



#### Microsoft 2FA Policy

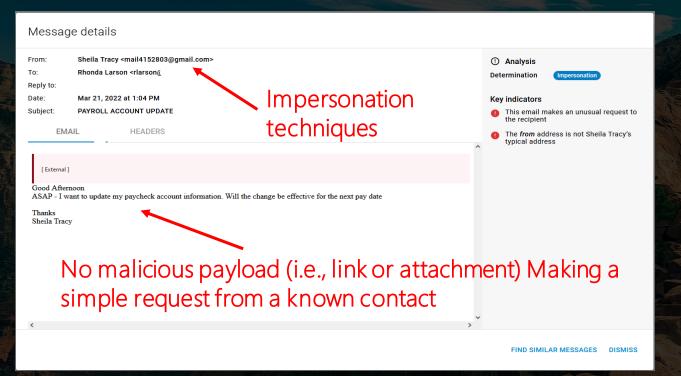
Dear User,

Your authenticator session is expiring today. Kindly re-authenticate to avoid being locked out of your email account.

Note: We strongly recommend you scan/use the QR CODE to restore your account security



### Employee Impersonation



High reputation senders | No links | No attachments

#### Conversation Hijacking

#### Message details

From: JoAnn Dase < joann.dase@dynamicquests.com>

To: Yolanda Childs <ychilds(

Reply to:

Date: Jul 13, 2021 at 10:14 AM One extra letter "s" in the email address

Subject: ACH Payment Method

**EMAIL** 

HEADERS dynamicquest.com vs. dynamicquests.com

Asking to make/update

payment via ACH

**CAUTION:** This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

We had a change in payment procedures, and we are switching to ACH method of receiving payment only. Also we have a 3.5% discount on payment made via ACH this week.

Please advise when is our next scheduled payment date and what is the total amount? So we can forward our updated ACH instructions.

Thanks.

JoAnn Dase // Manager of Revenue & Billing joann.dase@dynamicquest.com



Direct: 336-389-0911

IT Services // Service Desk // Data Center // Security // Backups // Phone Systems // Software Development

① Analysis

Determination

Conversation Hijacking

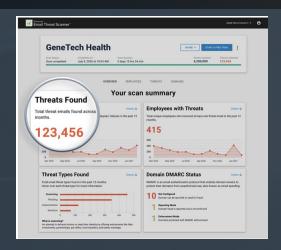
#### **Key indicators**

- This email is potentially part of a conversation hijacking attack
- This email has a sender domain dynamic quests.com that appears to be impersonating the domain dynamicquest.com

## See for yourself with a free Email Threat Scan



- Identify gaps in email security
- Find threats inside Microsoft 365 inboxes
- See threats visualized in multiple ways
- Get a shareable report about threats
- Start a free trial directly from the results!



21,000

Organizations already run the scan

20M

21M

Mailboxes scanned for threats

Spear-phishing attacks identified



"When bad emails get through, remediating them from every inbox takes too long.

What can we do?"

## Post-delivery response: a key bottleneck

3.5 days



Average amount of time an attack spends in a user's inbox until it is discovered and remediated



# The answer: Incident Response with M-SOAR



Threat Intelligence



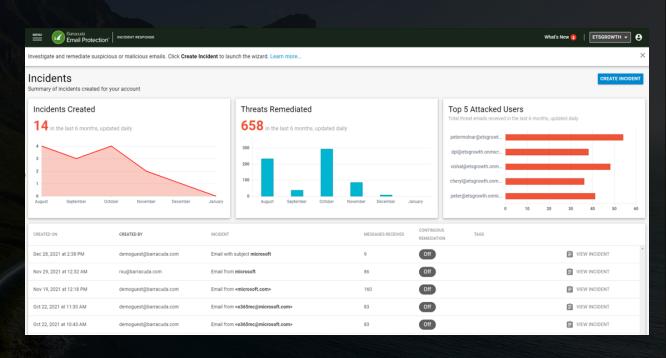
Automation



Response



Orchestration







Threat Intelligence



Automation



Response



Orchestration





Incident Response





Threat Intelligence



Automation

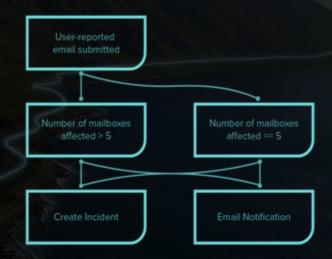


Response



Orchestration

Automates repetitive manual processes:







Threat Intelligence



Automation

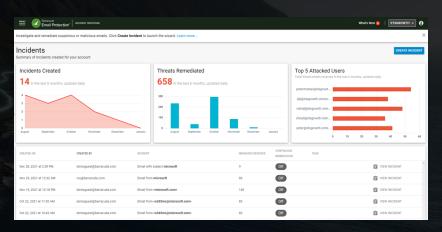


Response



Orchestration

Single dashboard to monitor, report and execute incident response



"It's more automated now, with the Al doing a lot of the heavy lifting." – Head of IT @ UK Car Dealer





Threat Intelligence



Automation



Response



Orchestration

Supports integrations between email security applications



Email Gateway Defense

Impersonation Protection

Security Awareness Training



"We use Microsoft 365 extensively – email, SharePoint, OneDrive, and Teams.

We have in-office and remote employees.

If there's an account takeover, how do we protect our Microsoft applications?"

### Zero Trust Access for M365: secure access



In the office or Remote





**Compromised Accounts** 

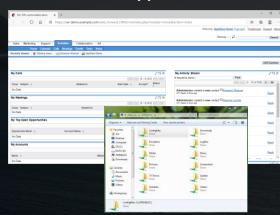


Insecure or Untrusted Devices

#### **Zero Trust Access**

- Identity-Based User Authentication
- Device Authentication
- Device Health Checks (ongoing)
- Per-Application Permissions
- Central Management and Logging
- On-Demand Autoscaling
- Simple Always-On Connectivity

#### **Microsoft 365 Applications**





## Security Awareness Training: the process



#### **Analyze**

Detailed reporting metrics to determine threat risk and inform the next campaign

## Multi-modal, multi-country content

Animated videos (3-5 mins)



Infographics



Threat spotting guides



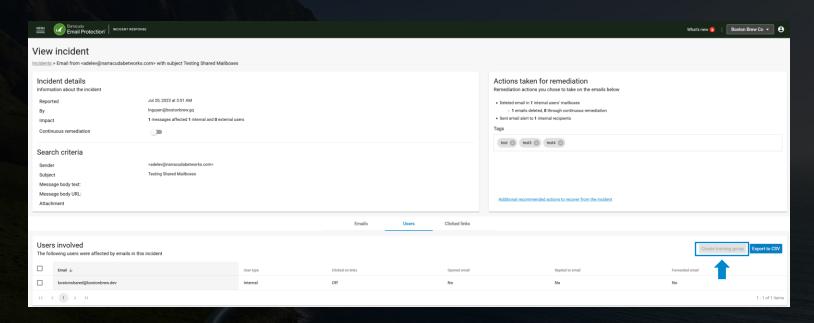
Curriculums



"With the advanced anti-phishing protection and security awareness training, we have built the best security against ransomware getting in." – Superintendent of Technology @ Texas-based Independent School District

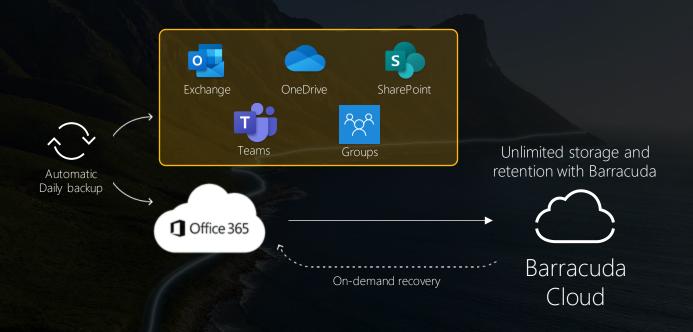


# Integrated with Incident Response



Send users affected by an incident into an awareness training group without having to leave Incident Response

# Cloud-to-Cloud Backup: set and forget



### SharePoint and OneDrive risks

#### Preventing PII leakage

• Sensitive data like credit card, passport, password, medical info, etc.

#### Preventing Intellectual Property (IP) leakage

• Trade secrets, source code, general IP

#### Protection against stored malware

• Dormant ransomware files

#### Data Compliance

• GDPR, CCPA, HIPAA, PCI-DSS...



## Data Inspector: protect Microsoft 365 data

Scan: Automatic and real-time

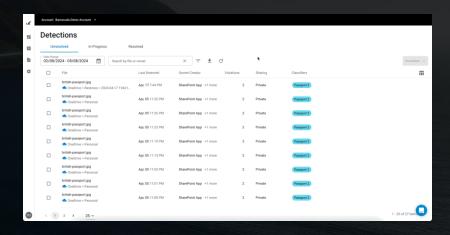
Classify: Automatic classification of data and malware, including custom classifiers

Notify: Notify admins and end users

Remediate: Protect data with remediation and blocking

Compliance: Reporting to meet regulatory requirements







## Deep international support



Local classifications for 27 countries

7 data centers worldwide

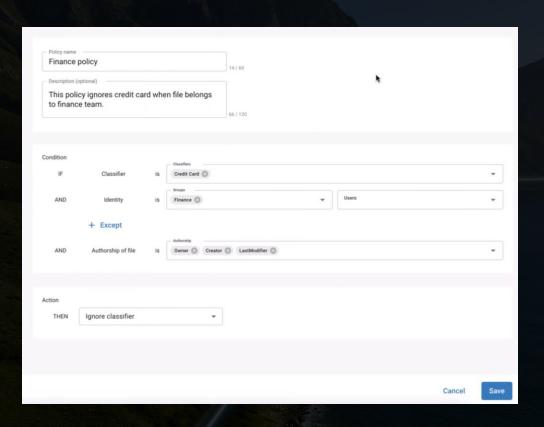
150 built-in classifications

And counting

Up to 10 custom classifications



## Easy, flexible, and automated remediation



Set up remediation policies per user-group and directory

- Different departments have different needs
- Can be as granular as you want
- Flexible remediation (Unshare, Quarantine, Delete, Ignore)

# See for yourself with a free Data Inspector scan

- 1. Go to http://datainspector.barracuda.com
- 2. Login with a Microsoft 365 Global Admin account
- 3. Follow the onboarding wizard:
  - a) Agree to T&Cs
  - b) Select data location
  - c) Provide consent for read-only access to OneDrive and SharePoint

Less than 5 minutes to start your first scan!





Your journey, secured.



Managed XDR



### Email Protection

Defend your company with the world's most comprehensive email protection, made radically easy.

- ✓ Spam, malware, threats
- ✓ Phishing & impersonation
- ✓ Account takeover
- ✓ Incident response
- Security awareness



## Application Protection

Protect all your web apps and APIs with one comprehensive platform.

- ✓ OWASP Top 10
- ✓ Bot protection
- ✓ DDoS protection
- ✓ Client-side protection
- ✓ API security



#### Network Protection

Secure and connect your infrastructure with the power of Barracuda Network Protection.

- ✓ Secure Access Service Edge
- ✓ Zero Trust security
- ✓ Secure SD-WAN
- ✓ Network firewalls
- ✓ IoT/OT security



## Data Protection

Safeguard your critical data wherever it resides to minimize downtime and prevent data loss.

- ✓ Backup
- Archiving
- ✓ Data classification

### Start je Normenkader reis met SLB & Barracuda



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