How do you currently manage the threat of inbound email attacks?

Phishing, spear phishing, business email compromise (BEC), and impersonation attacks are top of mind for security leaders. It’s easy to see why.

**CONSIDER THE STATISTICS...**

- **95%** of all attacks on enterprise networks are the result of successful spear phishing.  
- **22%** of breaches involve social engineering, and 96% of those breaches came through email.
- **$12.5BN** Spear phishing has cost global businesses $12.5bn in losses.
- **92%** of malware is delivered by email.

**Defender Product Differentiators**

Email is typically the first to deliver initial URLs, in the form of an exploit kit or phishing website, attachments in the form of payloads, or a starting point for social engineering attacks, such as in the case of business email compromise or credential phishing attacks.

Defender covers these attacks using three proven and differentiated approaches - threat prevention, education and awareness, and reducing the overall burden on security operations centers.

**Solution Highlights and Key Benefits**

**RISK-BASED APPROACH**

Defender emphasizes risk-based protection, not a binary approach to classifying threats, which significantly reduces the burden on security ops teams. In-the-moment warnings take further burdens off the SOC to release to the inbox.

**FREE UP YOUR SOC**

Defender massively reduces the burden on SOC teams to triage threats from other security tools, resulting in low ongoing admin.

**CONTEXT-AWARE SECURITY**

Defender uses natural language processing (NLP) algorithms to perform a content x-ray that detects indicators of attack such as malicious intent, impersonation, compromise, and payloads, resulting in more accurate security decisions.

**IN-THE-MOMENT TRAINING**

Non-disruptive in-the-moment training and awareness is provided to employees through contextualized, easy to understand warning messaging.

**FLEXIBLE DEPLOYMENT AND SEAMLESS INTEGRATIONS**

Defender deploys in minutes and automatically prevents data breaches through email within 24 hours of deployment, across all devices, desktop and mobile.
Threat Prevention

BEHAVIORAL INTELLIGENCE
Defender’s behavioral intelligence leverages at least 12 months of historical data that includes the company’s emails, company network, as well as Tessian’s Global Threat Network, to detect all indicators of attack including impersonation, compromise, payloads and intent.

PREVENT INBOUND EMAIL ATTACKS NOT DETECTED BY LEGACY SOLUTIONS
Legacy approaches will scan for known malicious payloads such as links and attachments. This leaves these defences vulnerable to zero-day threats, or attacks without payloads. Tessian will inspect the context of the email to determine indicators of an attack, notify the user, therefore not giving an opportunity of malware slipping through or the user to click. This moves Tessian up the cyber attack kill chain to stop attacks.

CONTEXT-AWARE SECURITY
Unlike other email security solutions, Defender is context-aware. It uses natural language processing (NLP) algorithms to perform a content x-ray that detects indicators of attack such as malicious intent, impersonation, compromise, and payloads, resulting in more accurate security decisions. This, in turn, provides an alert that the end user will understand, helping them make the right decision. Defender takes proportional actions based on the risk level of the threat, warning users appropriately based on the severity of the risk.

BULK REMEDIATION
Defender allows admins to bulk-remediate malicious emails in 1-click. By identifying attacks (burst attacks), admins can delete the entire campaign from users’ inboxes with one click. Defender also enables administrators to delete suspicious emails in users’ inboxes directly from the portal.

AUTOMATED QUARANTINE
Defender automatically quarantines emails that the algorithm determines to be highly malicious.

Reduce Admin Overhead

FREE UP YOUR SOC
Defender massively reduces the burden on SOC teams to triage threats from other security tools, resulting in low ongoing admin.

RISK-BASED APPROACH
Defender emphasizes risk-based protection, not a binary approach to classifying threats, which significantly reduces the burden on security ops teams. In-the-moment warnings take further burdens off the SOC to release to the inbox.

NO MORE TIME-CONSUMING, RIGID POLICIES
There is no need for admin teams to maintain a complex set of rules or establish pre-defined policies or configurations.

FLEXIBLE DEPLOYMENT AND SEAMLESS INTEGRATIONS
Flexible deployment options and seamless integrations with existing email security controls and legacy Secure Email Gateways (SEG), add-ins, and G-Suite and API/0365 API. Defender deploys in minutes and automatically prevents data breaches through email within 24 hours of deployment, across all devices, desktop and mobile. See all Tessian integrations →

Defender Coverage

When we say comprehensive, we mean comprehensive. Defender prevents all inbound attacks that lead to some nasty outcomes - such as ransomware and zero-day attacks.

Impersonated Party —— Impersonation Method

INTERNAL
Executive
Colleague

EXTERNAL
Vendor
Supplier
Brand
Service

Impersonation Method

Domain Lookalike
Display Name Lookalike
Exact Domain Spoof

Attack Type Coverage —— Attack Outcome

Account Takeover
Business Email Compromise (BEC)
Spear Phishing
Social Engineering
Whaling Attack
Executive Spoofing

Ransomware
Zero-day Attacks
Fraud
PII Theft
Data Theft
IP and Sensitive Data Loss
Credential Loss/ Harvesting
Reputational Damage
Organization Downtime

Education and Awareness

IN-THE-MOMENT TRAINING
Non-disruptive in-the-moment training and awareness is provided to employees through contextualized, easy to understand warning messaging.

RISK TRENDS DOWNWARD
Risk will quickly trend downward as users learn more about security through in-the-moment warnings, becoming better at spotting attacks and lowering click-through rates on identified threats.
How Defender Works

BEHAVIORAL ANALYSIS
Detect all indicators of inbound email attacks.

Defender’s behavioral intelligence leverages at least 12 months of historical data that includes the company’s emails, company network, as well as Tessian’s Global Threat Network, to detect all indicators of inbound email attacks.

By using these broad range of signals from relationship graphs, deep inspection of the email content, and previous user behavior, Tessian can identify all inbound email attacks including:

- Account Takeover → Business Email Compromise (BEC) → All Impersonation Attacks → Spear Phishing → Social Engineering → Whaling Attacks →

DEEP INSPECTION OF EMAIL CONTENT
Identify inbound email threats in real-time.

Tessian’s Human Layer Security (HLS) Engine analyzes all inbound emails in real-time and uses machine intelligence to automatically predict whether an incoming email is malicious. Using a broad range of signals from relationship graphs, Tessian performs deep inspection of the email content, and previous user behavior.

Legacy approaches will scan for known malicious payloads such as links and attachments. This leaves these defences vulnerable to zero-day threats, or attacks without payloads. Tessian will inspect the context of the email to determine indicators of an attack, notify the user, therefore not giving an opportunity of malware slipping through or the user to click.

CONTINUOUS SECURITY AWARENESS TRAINING
In-the-moment training to stop email attacks where they start.

When unsafe emails are detected, employees can either receive in-the-moment alerts with clear, simple explanations of potential risks or emails can be directly quarantined for inspection and approval by Security Analysts.

Non-disruptive in-the-moment training and awareness is provided to employees through contextualized, easy to understand warning messages.

Risk trends downward as users learn more about security through in-the-moment warnings, becoming better at spotting attacks and lowering click-through rates on identified threats.
MITIGATE AND REMEDIATE

Granular visibility to quickly prevent, mitigate and remediate inbound email attacks.

Built within the Tessian Human Layer Security Platform, HLS Intelligence allows security teams to seamlessly access insights, intelligence, and tools that significantly reduce manual incident investigation time and allow for rapid response to impersonation threats. With Tessian HLS Intelligence, security teams can:

- Readily view top threats, top target users, and detailed breakdown of anomalous events detected by Tessian Defender.
- Remediate with speed. Quarantine, clawback unsafe emails from users’ inboxes, or update blacklists to prevent similar threats with a single click.
- Future proof defenses using shared threat intelligence and automatically block blacklisted domains across the Tessian ecosystem. No rules needed.
- Quantify risks, compare trends, and influence employees to adopt a secure behavior. Benchmark impersonation risk levels against industry peers.

See how you can turn your email data into your biggest defense against inbound email security threats.

Tessian’s mission is to secure the human layer. Using machine learning technology, Tessian automatically stops data breaches and security threats caused by human error – like data exfiltration, accidental data loss, business email compromise and phishing attacks – with minimal disruption to employees’ workflow. As a result, employees are empowered to do their best work, without security getting in their way. Founded in 2015, Tessian is backed by renowned investors like Sequoia, Accel, March Capital, and Balderton.