



Team Overview

Information Security Group Who:

Peter Yong – Manager Omotolani Etti – Engineer Wayne Lawrence – Analyst

Where:

IP2 2nd Floor

Email: infosec@phl.org



Three Pillars of Information Security - C.I.A.

Confidentiality:

Preserving authorized restrictions on information access and disclosure, including means for protecting personal privacy, proprietary and operational information

Integrity:

Guarding against improper information modification or destruction and ensuring information non-repudiation and authenticity

Availability:

Ensuring timely and reliable access to and use of information



Why is DOA/PHL a target?





- Monetary gains
- Political
- Hacktivist
- Competitor
- Distraction
- Revenge
- Fame
- Just for fun! Hobby!



TOP Threats to DOA

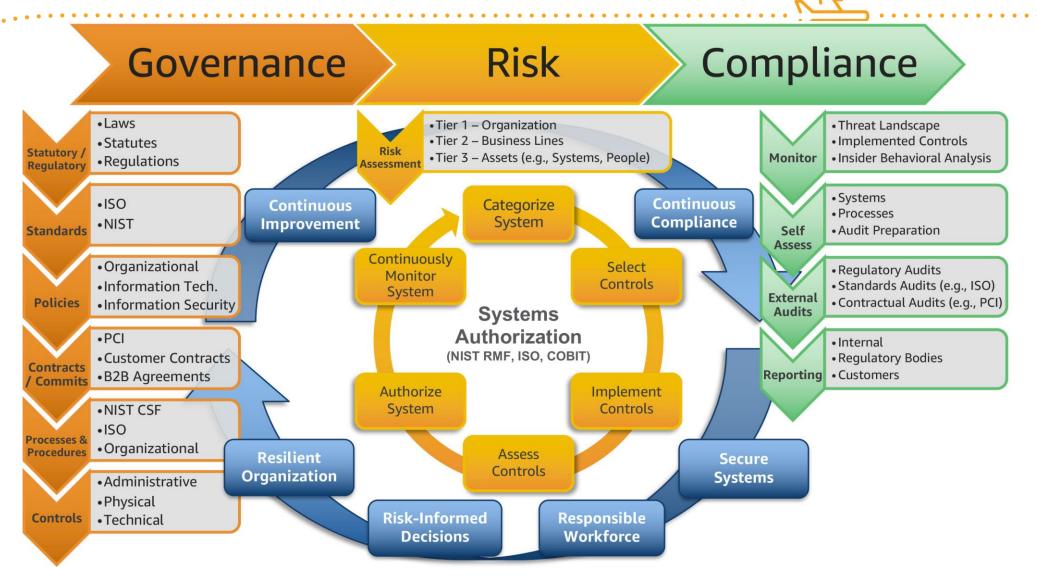
Social Engineering
DDoS - Denial of Service
Data Security
Vulnerabilities
Access Control
Internet of Things







Strategy to protect DOA





NIST CSF and 800-53 Framework



NIST Cybersecurity Framework				
Identify	Protect	Detect	Respond	Recover
Asset Management	Identity Management and Access Control	Anomalies and Events	Response Planning	Recovery Planning
Business Environment	Awareness and Training	Security Continuous Monitoring	Communications	Improvements
Governance	Data Security	Detection Processes	Analysis	Communications
Risk Assessment	Information Protection Processes & Procedures		Mitigation	
Risk Management Strategy	Maintenance		Improvements	
Supply Chain Risk	Protective Technology			



Highlights

Awareness Training Program

Multifactor Authentication (MFA)

Incident Response Plan

Third party Risk Management Program

Mobile Device Protection (PHL iPhones)

Endpoint protection (Falcon and Umbrella)

USB Drive Security

Cybersecurity Awareness Month

Monitoring of network traffic in/out of PHL for malicious activities

Completed first pen test on PHL network assets

Cyber Hygiene WebApp Scanning



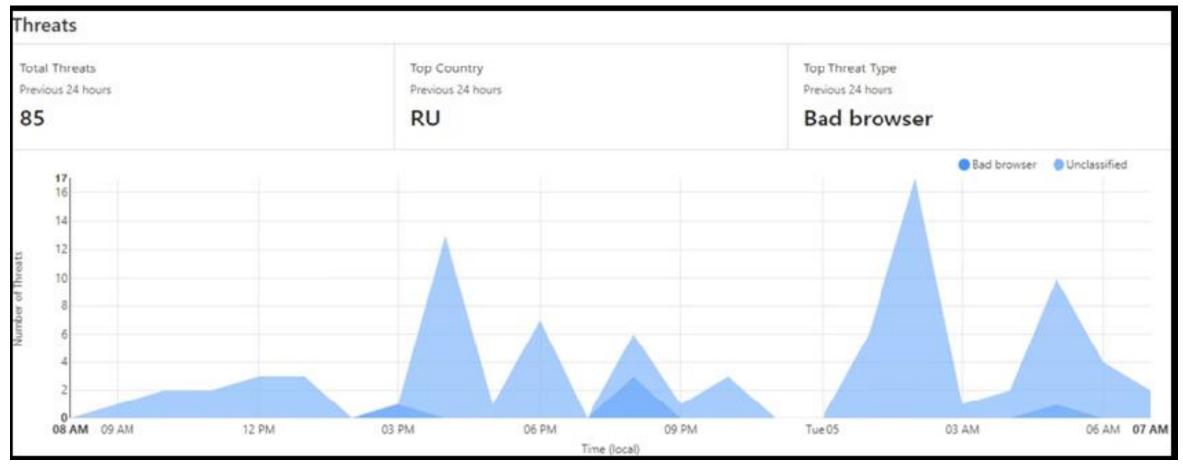




Cybersecurity Awareness Month

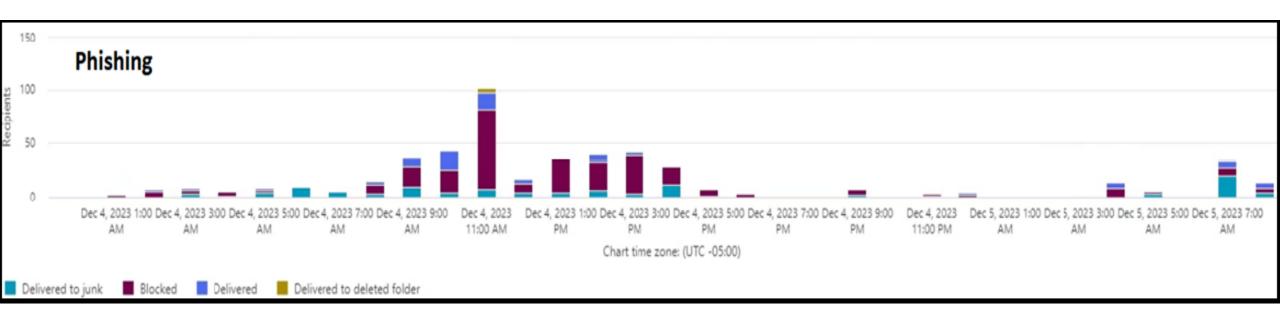






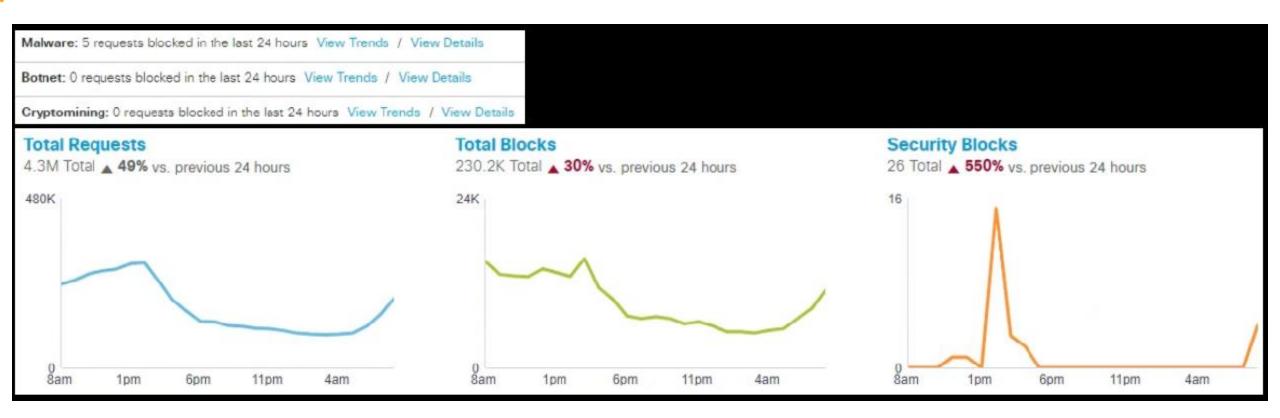






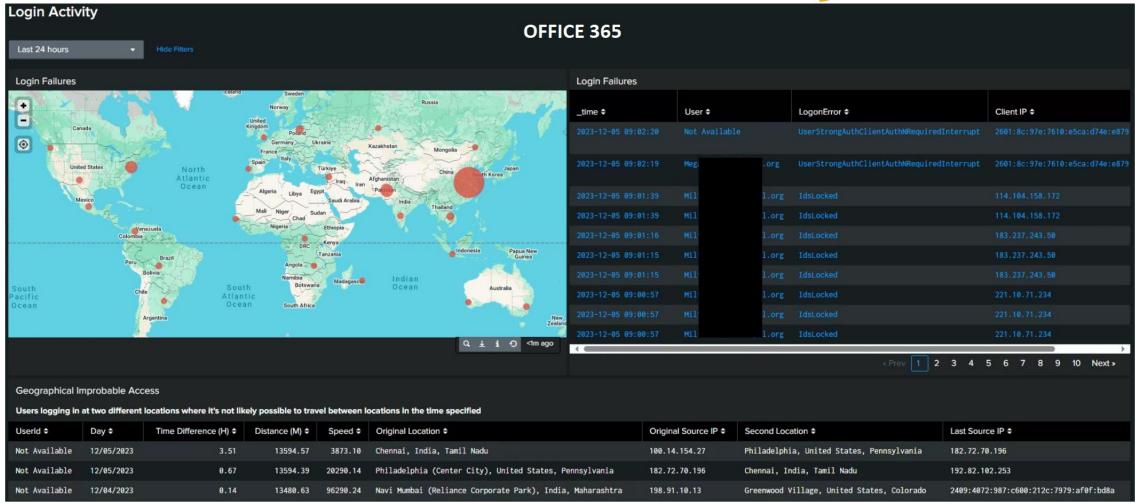


















Fended off pen test (endpoints and servers)

Detected and removed endpoint malicious apps



Impact on the Department of Aviation's Mission & Vision



Vision

We are a World Class Global Gateway of Choice

Mission

Proudly Connecting Philadelphia with the World

- Provides clear direction on standards and procedures:
 - > Facilitates the confidentiality, integrity, and availability of data
 - Reduces the risk of security incidents
 - > Executes security programs across an organization
 - Provides clear statement of security policy to third parties
 - > Helps to address regulatory compliance requirements, e.g. HIPAA, TSA, CISA



Collaboration

All business units

Information Technology

TSA and CISA

Airlines

Third party vendors





Continuing Information Security Work



Threat landscape constantly changes day to day

Staying up to date with ongoing threats and vulnerabilities

Working through our Information Security Programs



Q&A





