



Securing .gov with EINSTEIN 3 Accelerated (E³A)

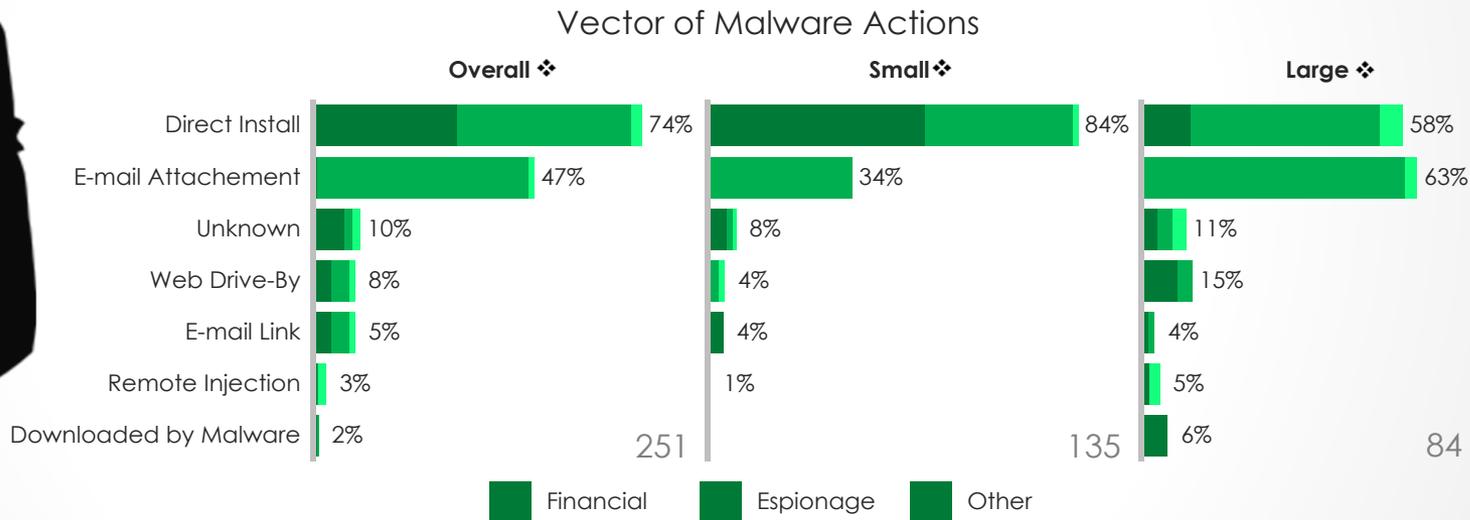
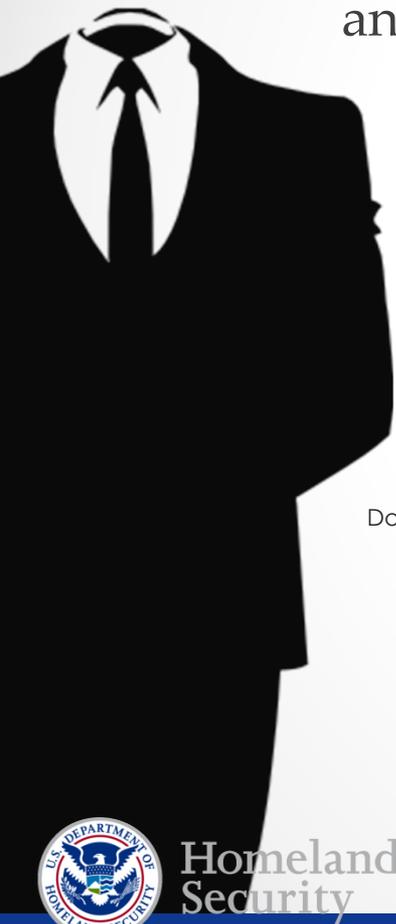
April 19, 2016



The Cyber Threats



- Adversaries are persistent, breaking into USG computers and networks on a consistent basis.
- They use a variety of methods to gain access, disrupt services, and steal data



- ❖ "Overall" (all breaches of all organizations)
- ❖ "Small" (organizations with fewer than 1,000 employees)
- ❖ "Large" (organizations with 1,000 employees or more)

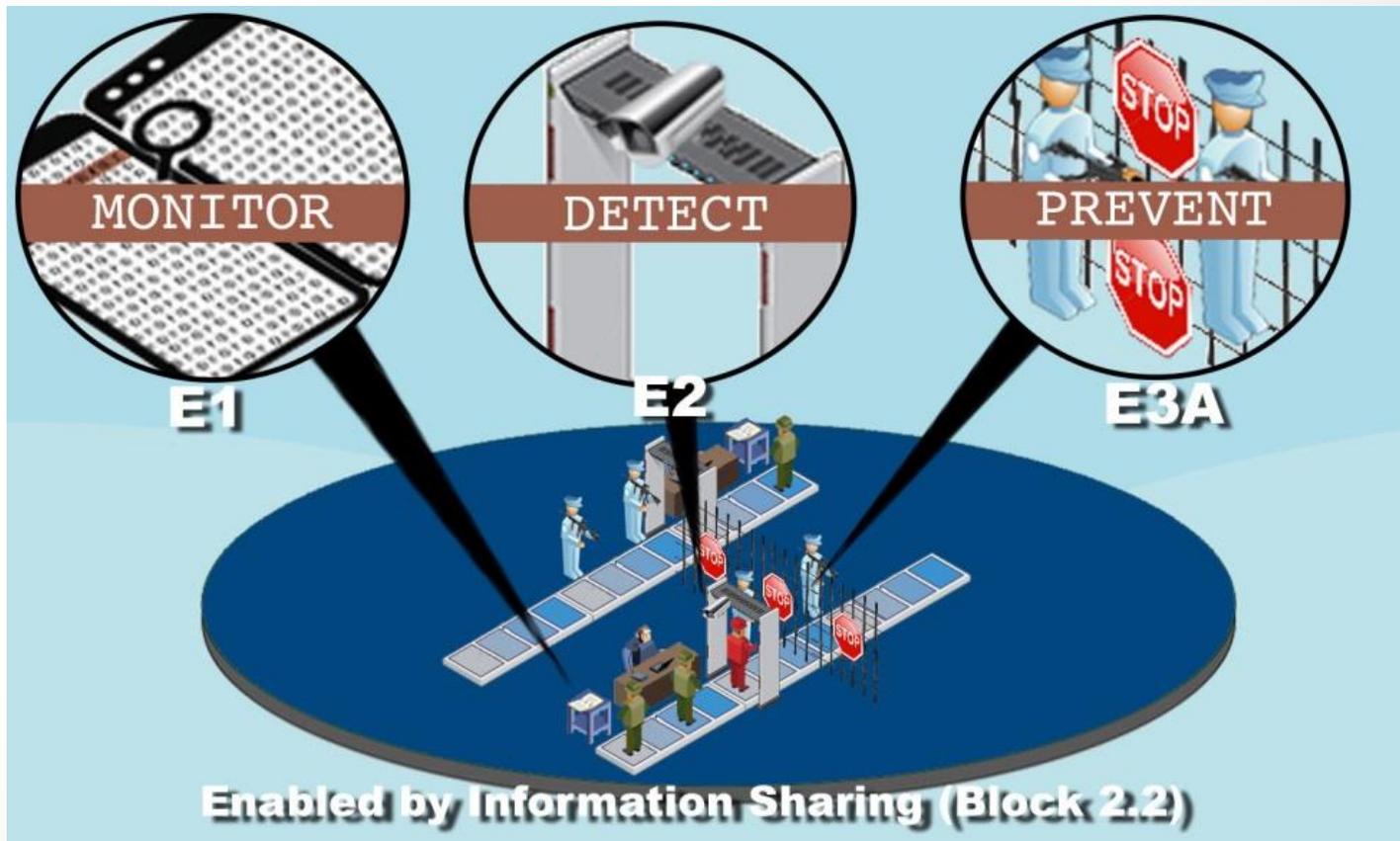


NCPS (EINSTEIN) Capability Overview

“EINSTEIN” is an operational moniker for the National Cybersecurity Protection System

Analogy to security for a building:

- E1 is the logbook, where guests sign their name, who they are visiting, and the time.
- E2 checks the names in the logbook against a list of bad guys. If a bad guy enters or exits the building, it sounds the alarm.
- E³A is the gate and the guard that stops the bad guy from entering or exiting.



EINSTEIN Activity

- EINSTEIN 1 & 2 sensors see approximately 93% of .gov traffic.

9,000,000,000



Average number of flow records collected per day

33,900



Average number of alerts generated per day

- EINSTEIN 3 Accelerated protects approximately 47% of .gov users.

1,000



Average number of blocked traffic per day



NCPS (EINSTEIN) Program Benefits



Direct Agency Benefits

- Prevents cyber attacks from the most common and pervasive threat vectors
- Insight into network activities
- Reduces time to respond, remediate, and recover from cyber attacks
- Does not obligate agency funds



Enterprise Level Benefits

- Correlation of cyber activity across the .gov enterprise
- National threat data view to support cyber risk management
- Aggregate view of malicious activity patterns to better understand scope of attacks across the enterprise



Authorities

- Federal Cybersecurity Enhancement Act of 2015, Consolidated Appropriations Act, 2016, Pub. L. No. 114-113, Division N, section 223.
- Federal Information Security Management Act of 2002
OMB M-15-01 streamline agency reporting of information security incidents and requires agencies to entered into a legally sufficient MOA with DHS relating to the deployment of EINSTEIN
- National Security Presidential Directive-54/Homeland Security Presidential Directive-23 (NSPD-54/HSPD 23)
Need for expanded capabilities to address cyber threat
- Comprehensive National Cybersecurity Initiatives (CNCI)
 - Initiative #1 – TIC
 - Initiative #2 – IDS
 - Initiative #3 – IPSS

