

NIST
Information Technology Laboratory
(ITL)
The Cyber Maryland Showcase



Security Automation



- “Tower of Babel”

- Too much proprietary, incompatible information
- Costly
- Error prone
- Difficult to scale

- Inefficient

- Resources spent on “security hygiene”
 - Vulnerability management
 - Configuration management
 - Patch management



Security Automation



•Automation:

- Compliance Management (PCI, HIPAA, etc...)
- Efficiency
- Accuracy
- Resources re-tasked to harder problems:
 - Incident response
 - Infrastructure enhancement

• Standardization:

- Same Object, Same Name
- Reporting





Sponsored by
DHS National Cyber Security Division/US-CERT

NIST
National Institute of
Standards and Technology

National Vulnerability Database

automating vulnerability management, security measurement, and compliance checking

National Vulnerability Database

- NVD is the U.S. government repository of public vulnerability management information.
- Provides standardized reference for software vulnerabilities.
- Used by government, industry and academia
- Spanish and Japanese language translations





National Vulnerability Database

automating vulnerability management, security measurement, and compliance checking

National Checklist Program

U.S. Government repository of publicly available security checklists

- Eases compliance management
- Checklists cover 178 products
- Checklist contributors include
 - Government organizations
 - Vendors
 - Non-profit organizations



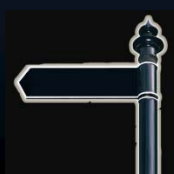
Partners

- US Government
 - National Security Agency (NSA)
 - Department of Homeland Security (DHS)
 - Defense Information Systems Agency (DISA)
- Foreign Government
 - Japan - **JVN/IPA** - Japan Vulnerability Notes / Information Technology Promotion Agency
 - Spain – **INTECO** - Instituto Nacional de Tecnologías de la Comunicación
- Private Sector
 - Apple, Microsoft, Red Hat, Sun Microsystems
 - Security product vendors



Product Validation Program

<http://nvd.nist.gov/scapproducts.cfm>



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