If it can be measured it can be improved

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Andrew Artz

Pathways Student (Computer Science)

Dual Degree Masters of Public Policy & Masters of City and Regional Planning Candidate (May 2021)



Previously:

- Search & Extraction for CBRN task force
- Regional transportation committee
- Non-profit advocate for non-motorized transportation in mostly rural communities

Currently:

- Data wrangler and Splunk Power User
- Forecasting usage of the National Vulnerabilities Database
- Pitching new ideas to audiences with more experience and audiences with less technical backgrounds



If it can be measured it can be improved

Mission

To promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life.

Vision

NIST will be the world's leader in creating critical measurement solutions and promoting equitable standards. Our efforts stimulate innovation, foster industrial competitiveness, and improve the quality of life.

Core Competencies

- o Measurement science
- o Rigorous traceability
- o Development and use of standards



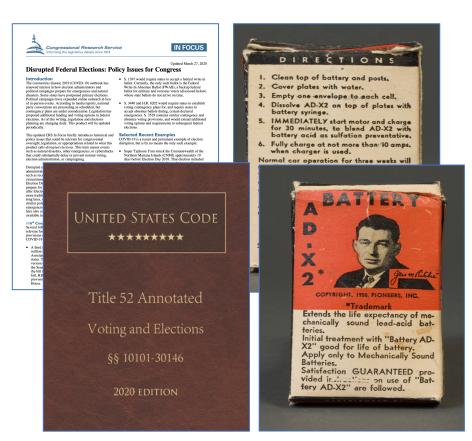




COMPUTER SECURITY DIVISION

SECURITY TESTING, VALIDATION AND MEASUREMENT









Information Technology Laboratory

NATIONAL VULNERABILITY DATABASE

VULNERABILITIES

狭CVE-2020-11500 Detail

Current Description

Zoom Client for Meetings through 4.6.9 uses the ECB mode of AES for video and audio encryption. Within a meeting, all participants use a single 128-bit key.

+View Analysis Description



Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

NVD Analysts use publicly available information to associate vector strings and CVSS scores. We also display any CVSS information provided within the CVE List from the CNA.

Note: NVD Analysts have published a CVSS score for this CVE based on publicly available information at the time of analysis. The CNA has not provided a score within the CVE List.

QUICK INFO

NVD

 CVE Dictionary Entry:

 CVE-2020-11500

 NVD Published Date:

 04/03/2020

 NVD Last Modified:

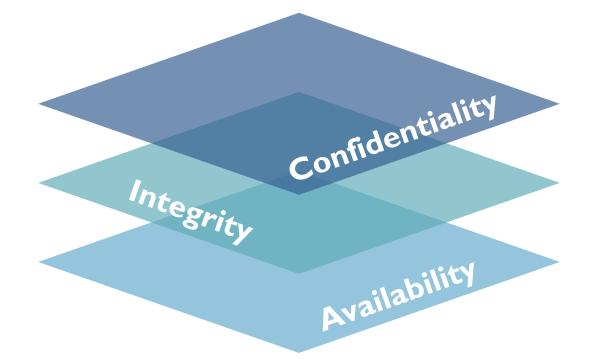
 04/07/2020

 Source:

 MITRE



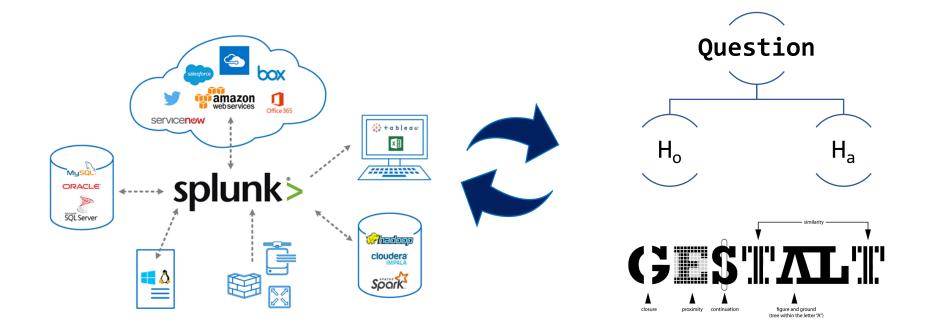
The Objectives of Information Security



NIST Special Publication 800-12, revision 1 An Introduction to Information Security section 1.4

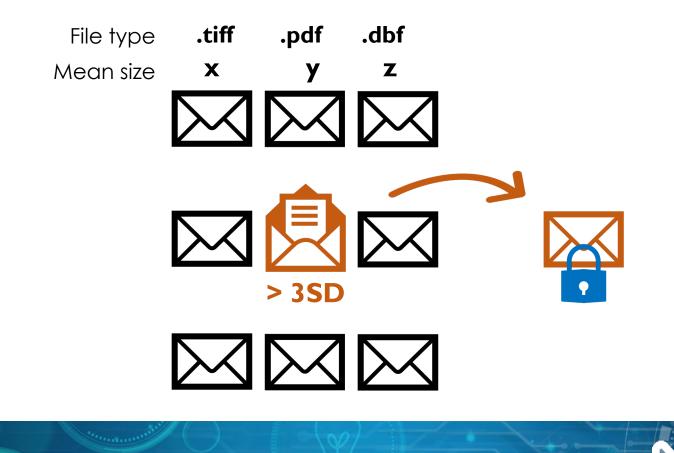


A "normal" day





Example: Lock suspected ransomware



When one door closes





My major takeaway: Triage

My old model:

	Negligible	Minor	Moderate	Significant	Severe
Very Likely	Low Med	Medium	Med Hi	High	High
Likely	Low	Low Med	Medium	Med Hi	High
Possible	Low	Low Med	Medium	Med Hi	Med Hi
Unlikely	Low	Low Med	Low Med	Medium	Med Hi
Very Unlikely	Low	Low	Low Med	Medium	Medium

My new model:

[SPV = R], or Severity *Probability *Value = Risk

