**CVE Forecasting - ThreatPort**

***IT infrastructure groups: prioritize patching***

Patch management is a major task for groups that manage servers, endpoints, and network and security devices.

Patching is a very time-consuming process. Infrastructure groups often burden themselves with a backlog of patches and di cult choices about which to apply risk, particularly on notorious Microsoft “patch Tuesdays.” Common Vulnerability Scoring System (CVSS) ratings include an unrealistic number of “high” ratings. Also, the generic “critical/important/moderate/low” ratings issued by antivirus vendors are not reliable guides to the importance of patches for specific enterprises.

You can find CVSS ratings in the National Vulnerability Database at: https://nvd.nist.gov/home.cfm

Cyber threat intelligence helps infrastructure groups prioritize patches based on rich information about vulnerabilities. That information can include technical descriptions of vulnerabilities and their effects, how hard they are to exploit, and whether exploit tools are currently available in the wild.

In fact, our researchers with strong cyber threat intelligence tradecraft can ease drop conversations on underground websites where threat actors reveal the vulnerabilities they intend to exploit, the techniques they are using to create exploits, and the specific organizations they plan to target.

By using this intelligence to improve patching priorities, infrastructure groups can close the window on immediate threats faster and spend less time on vulnerabilities that are low priority or irrelevant to their organization.

We currently are developing a new Dataset referred to as “Threatports”. Part of the Schema is detailing commonly attacked protocols, what band services are typically running on that port, and then any CVE data if the attack leveraged exploits to extend an attack vector. The differentiator and sellable factor is correlating that to patch management and allowing a probability of attack if they host software that is being commonly used for malicious activity.

Using further Data from <http://capec.mitre.org/> we can enrich the data by augmenting our schema with details from their “Attack Mechanism List”

**URL:** http://capec.mitre.org/documents/schema/index.html

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[Solution or Mitigation](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Solution_or_Mitigation)

[Solutions and Mitigations](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Solutions_and_Mitigations)

[Stakeholder](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Stakeholder)

[Stakeholder Description](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Stakeholder_Description)

[Status](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Status)

[Status](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Status)

[Status](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Status)

[Status (View)](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Status (View))

[Submission](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Submission)

[Submission Comment](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Submission_Comment)

[Submission Date](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Submission_Date)

[Submission Source](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Submission_Source)

[Submissions](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Submissions)

[Submitter](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Submitter)

[Submitter Organization](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Submitter_Organization)

[Summary](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Summary)

[Target Attack Surface](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Target_Attack_Surface)

[Technical Context](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Technical_Context)

[Term](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Term)

[Text](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Text)

[Text Title](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Text_Title)

[Typical Likelihood of Exploit](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Typical_Likelihood_of_Exploit)

[Typical Severity](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Typical_Severity)

[View](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#View)

[View Attributes](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#View_Attributes)

[View Audience](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#View_Audience)

[View Filter](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#View_Filter)

[View Objective](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#View_Objective)

[View Structure](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#View_Structure)

[Vulnerability Description](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Vulnerability_Description)

[Vulnerability ID](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Vulnerability_ID)

[Weakness Relationship Type (Related Weakness)](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Weakness_Relationship_Type (Related_Weakness))

[Weakness Relationship Type (Related Weakness)](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#Weakness_Relationship_Type (Related_Weakness))

[type (Indicator)](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#type (Indicator))

[type (Outcome)](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#type (Outcome))

[type (Security Control)](http://capec.mitre.org/documents/schema/schema_v2.7.1.html#type (Security_Control))