

RSA®Conference2018

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#RSAC

SESSION ID: TECH-W02

EVOLVE OR DIE: HOW TO STOP GETTING SLAUGHTERED DUE TO BAD VULNERABILITY MANAGEMENT

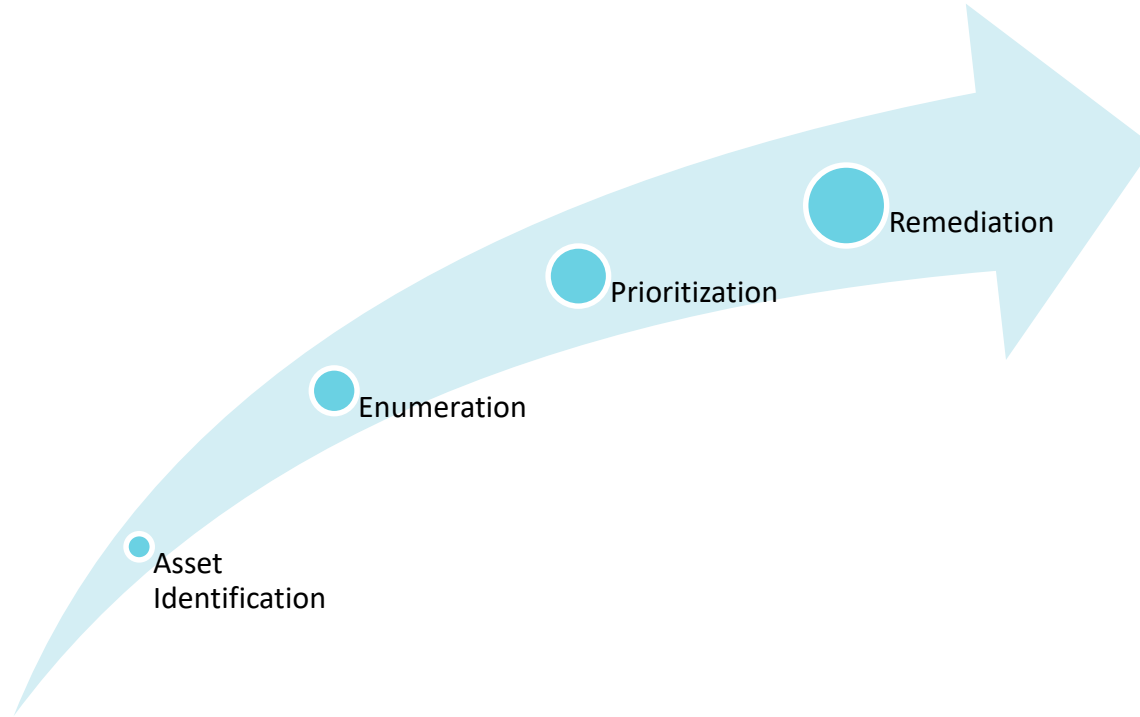
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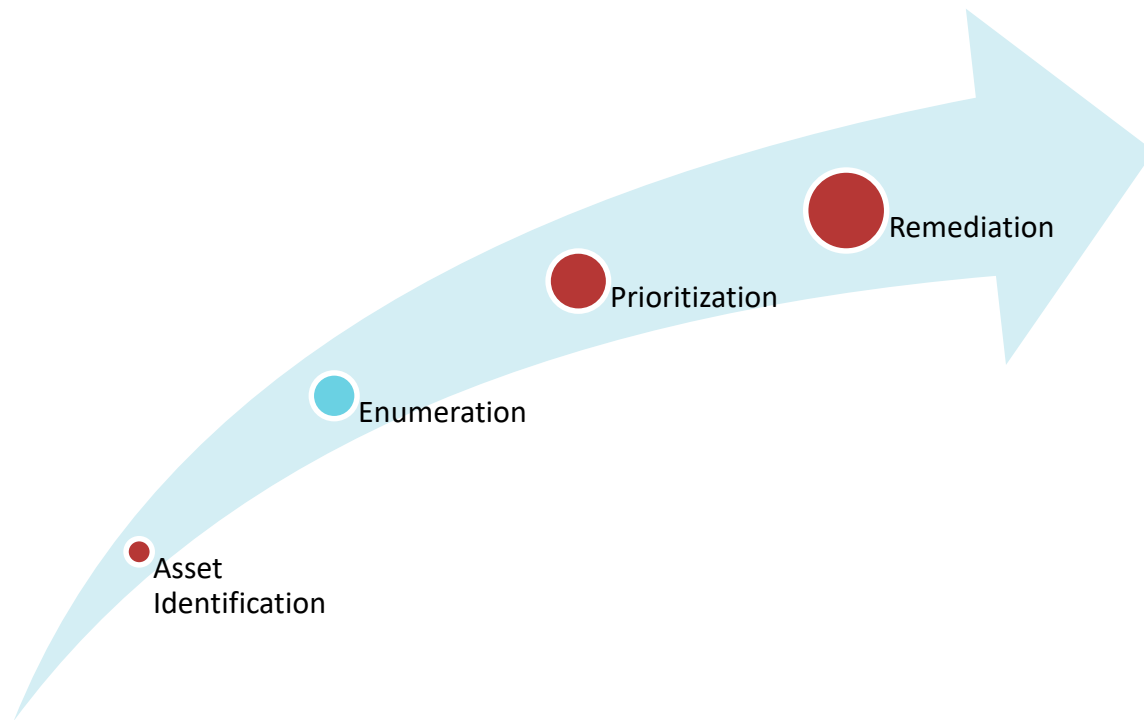
We are in a constant
state of failure.



Vulnerability Management Process



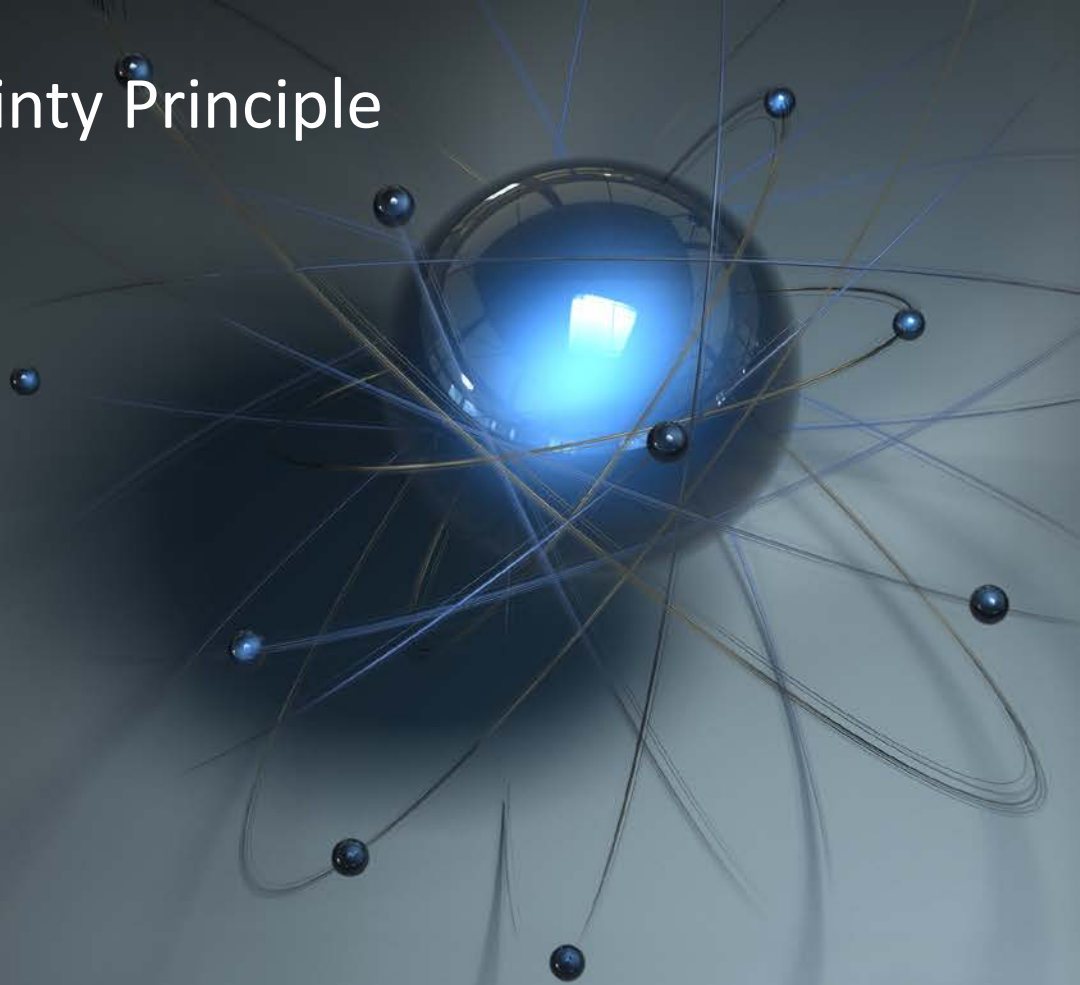
Vulnerability Management Process





**VULNERABILITY MANAGEMENT IS A
MAINTENANCE TASK THAT BEGINS AND
ENDS WITH OPERATIONS**

The Heisenberg Uncertainty Principle of Asset Management



Take Charge Of Asset Management



- Queryable infrastructure is the fabric of a good CMDB
- Consider the operational benefits of EDR products
 - Remote management software
 - Creates queryable infrastructure
 - Ability to detect misuse
- Use scanners to identify unmanaged hosts
 - Embrace coverage as a critical metric



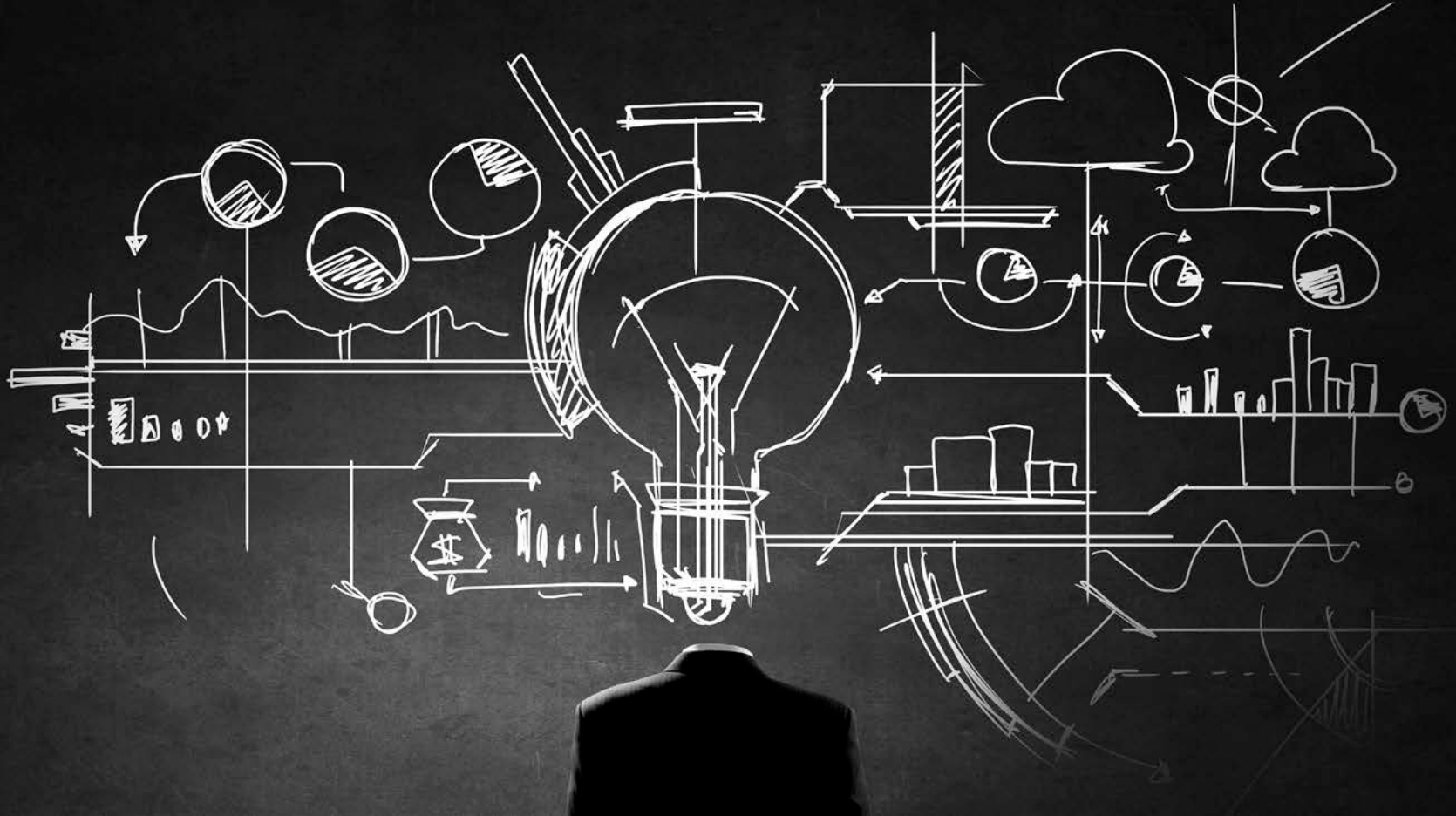
**IN 2017, OVER 29% OF CVE HAD A
SEVERITY OF HIGH OR CRITICAL.**

Define SLA's By Priority, Not Severity



Asset Criticality	Vulnerability Severity			
	Low	Medium	High	Critical
High	Priority 3	Priority 2	Priority 1	Priority 1
Medium	Priority 4	Priority 3	Priority 2	Priority 2
Low	Priority 5	Priority 4	Priority 3	Priority 3

It's Time To Start Using Threat Intelligence Strategically





**KEY QUESTION: HOW COULD AN
ATTACKER EXPLOIT THIS VULNERABILITY?**

Dissect Delivery and Exploitation

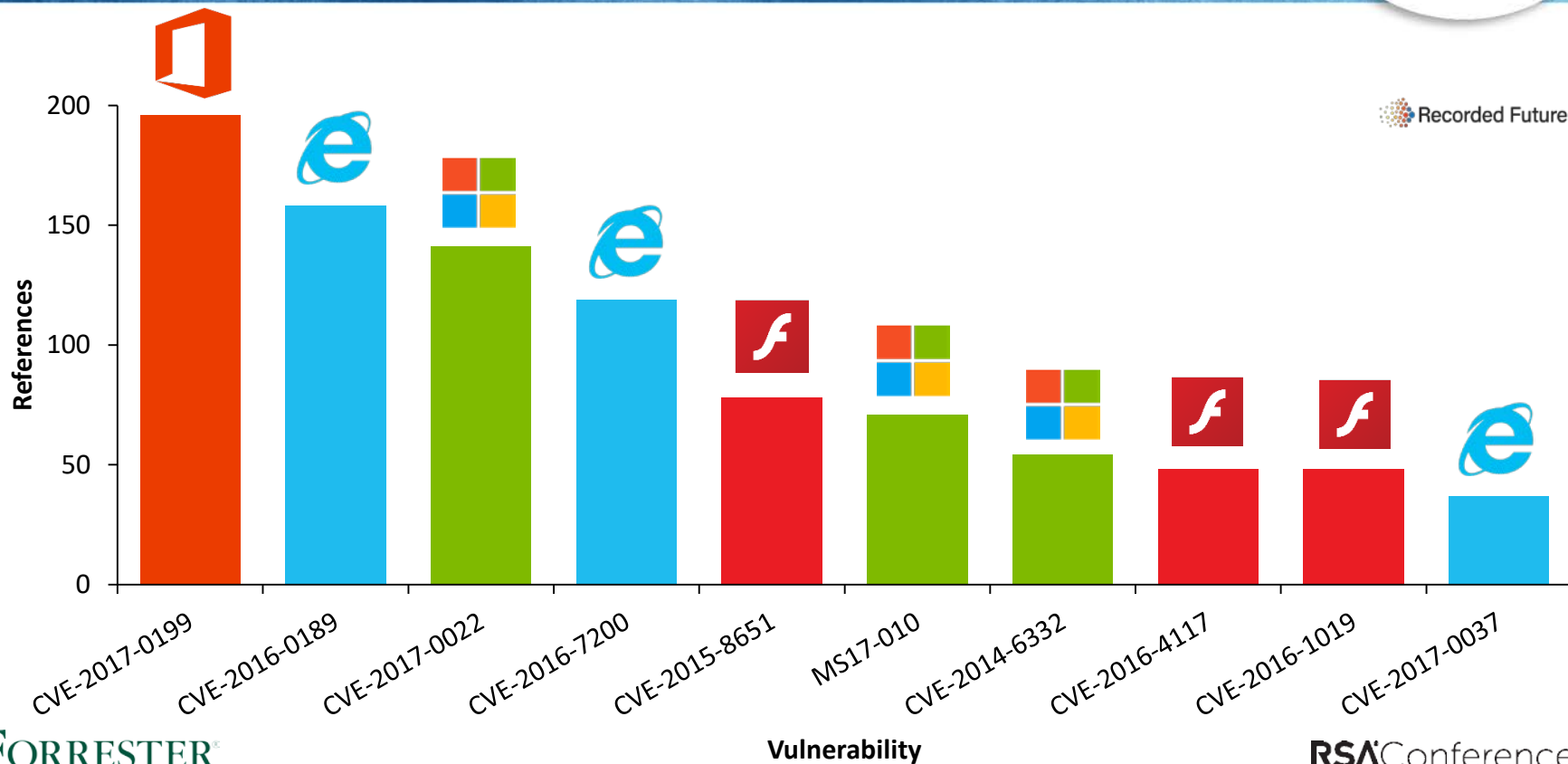


A cursory Analysis of Meltdown

- Can be delivered to browser using JavaScript
 - Endpoint threat model similar to Adobe Flash
- How do you execute this code on a server?
 - Other RCE vulnerability in an exposed service
 - Privilege escalation if already local



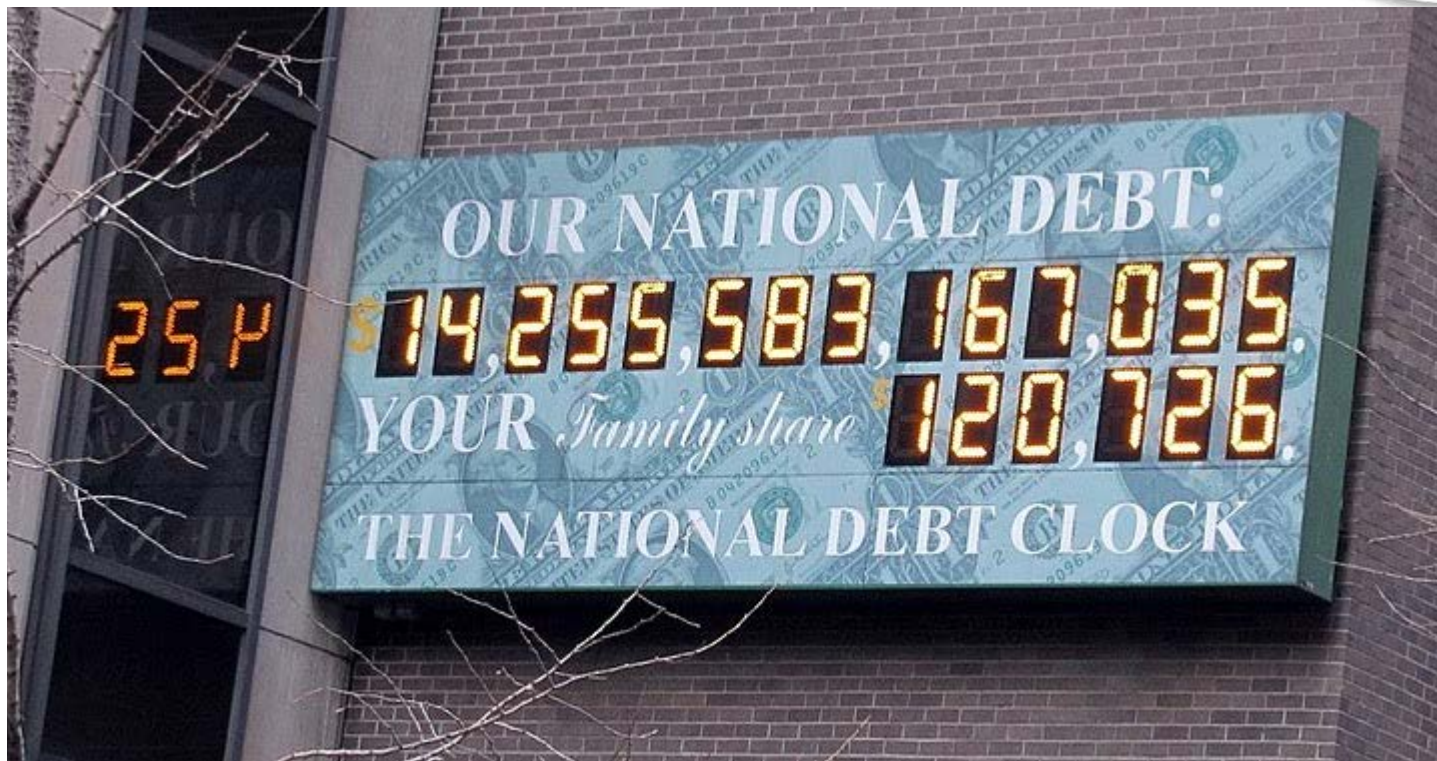
Understand How You'll Be Attacked



How To Talk To Executives About Vulnerability Management



Counting Stats Don't Make Good Metrics



Control the Message



- Help execs understand what they need to know to protect their jobs
- Generate and present metrics that are consumable
 - This provides clarity into what you're doing to protect them
 - Helps measure progress over time
- GOAL: Help them make business decisions based on this information

Let's Review!



- Vulnerability management is a business process.
- Queryable infrastructure is the fabric of good asset management.
- Perform prioritization based on threat intel and asset criticality.
- Help executives make business decisions supported by metrics about unmitigated risk.

Apply What You Have Learned Today



Change your ideology, become a participant!

- Identify and start tracking key metrics now, to help show trends later.
 - **Critical Metric!** Coverage, coverage, coverage!
- Look for intelligence sources which inform threat/exploitation details.
- Embrace an “application stack” approach to asset management.
 - Understand how software is developed and deployed within your organization.

Apply What You Have Learned In 3 Months



Begin outreach and develop relationships!

- Start providing relevant intelligence briefings to executives.
- Communicate priority based on how an exploit could be delivered.
 - **New Metric!** How are you reducing work by deprioritizing CVSS severity?
- Champion efforts with operations to improve asset management.
 - “How can we help?” – But with suggestions, resources, and budget.

Apply What You Have Learned In 6 Months



Become part of the operations process!

- Start leveraging CI/CD processes for patch deployment.
 - **Key Metric!** You are committing code, use build metrics to track issues.
- Leverage queryable infrastructure for real time asset inventory.
- Codify a new vulnerability remediation SLA based on internal priority.

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THANK YOU!

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