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SESSION ID: TV-W03

SECURITY DEBT: WHAT LURKS BENEATH

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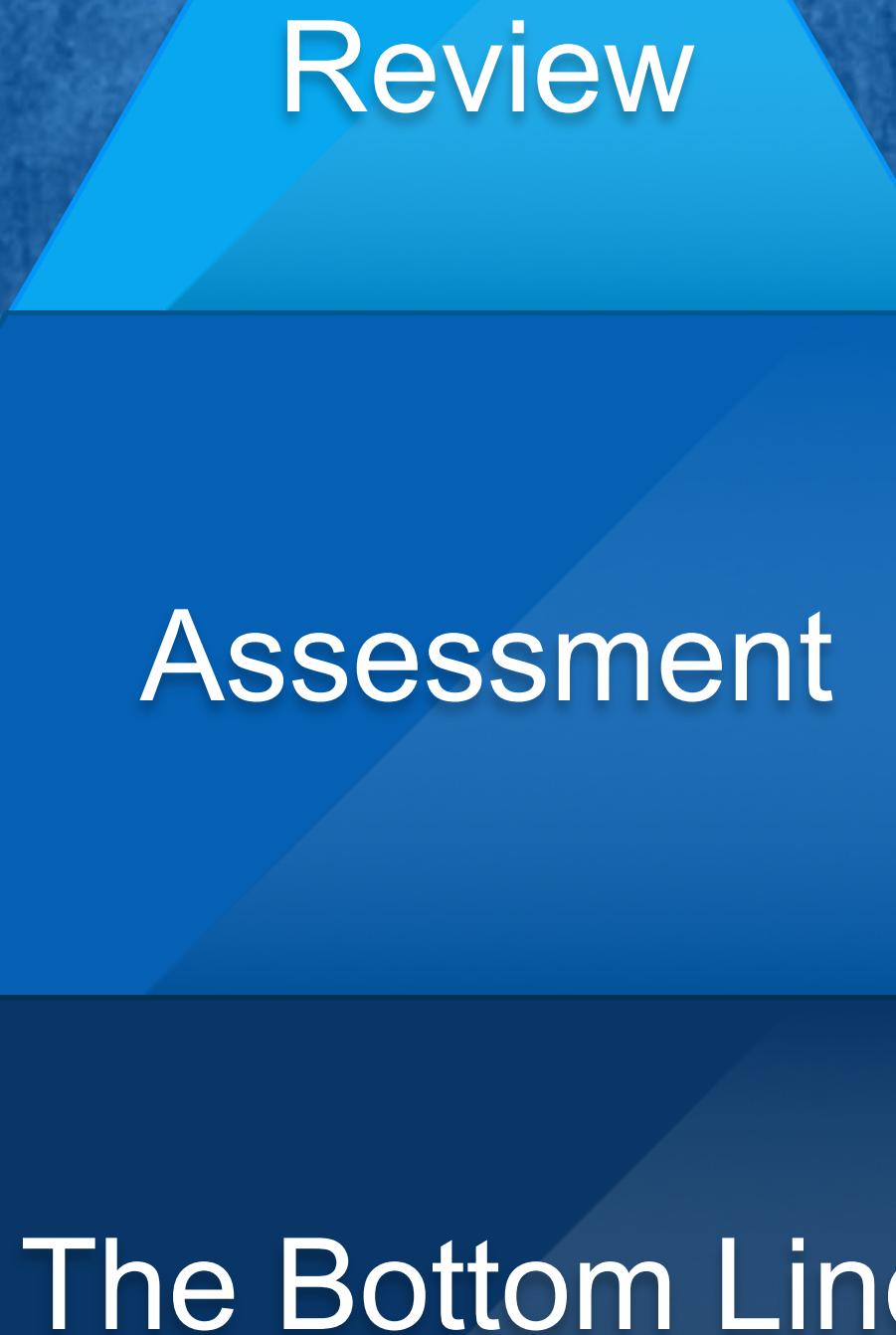


WHOAMI

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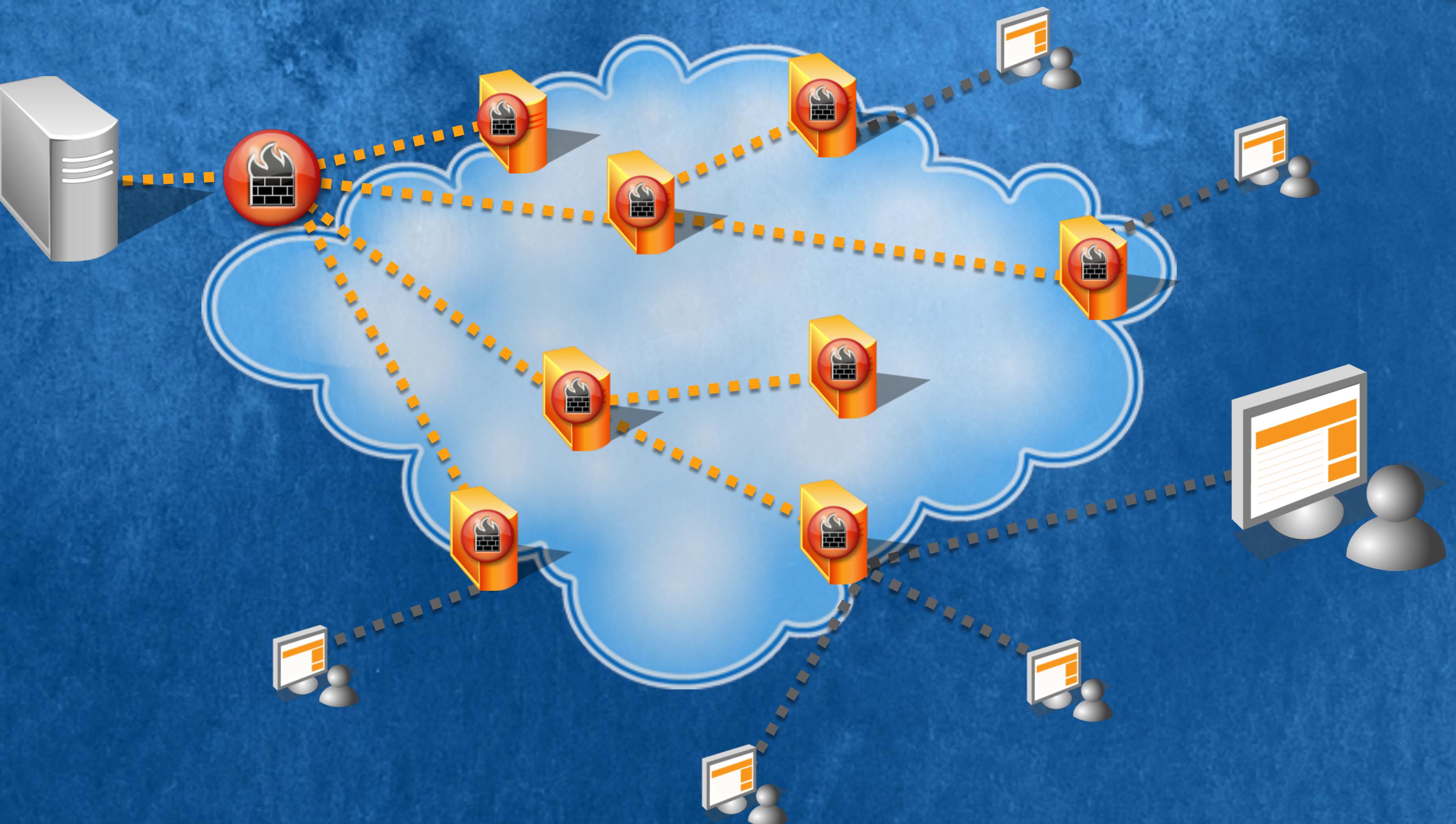


Learning Objectives



- 1: Review what are you doing to address security debt.
- 2: Have you assessed the risk of security debt to your environment?
- 3: Quantify the expected financial loss due to an security debt outage.

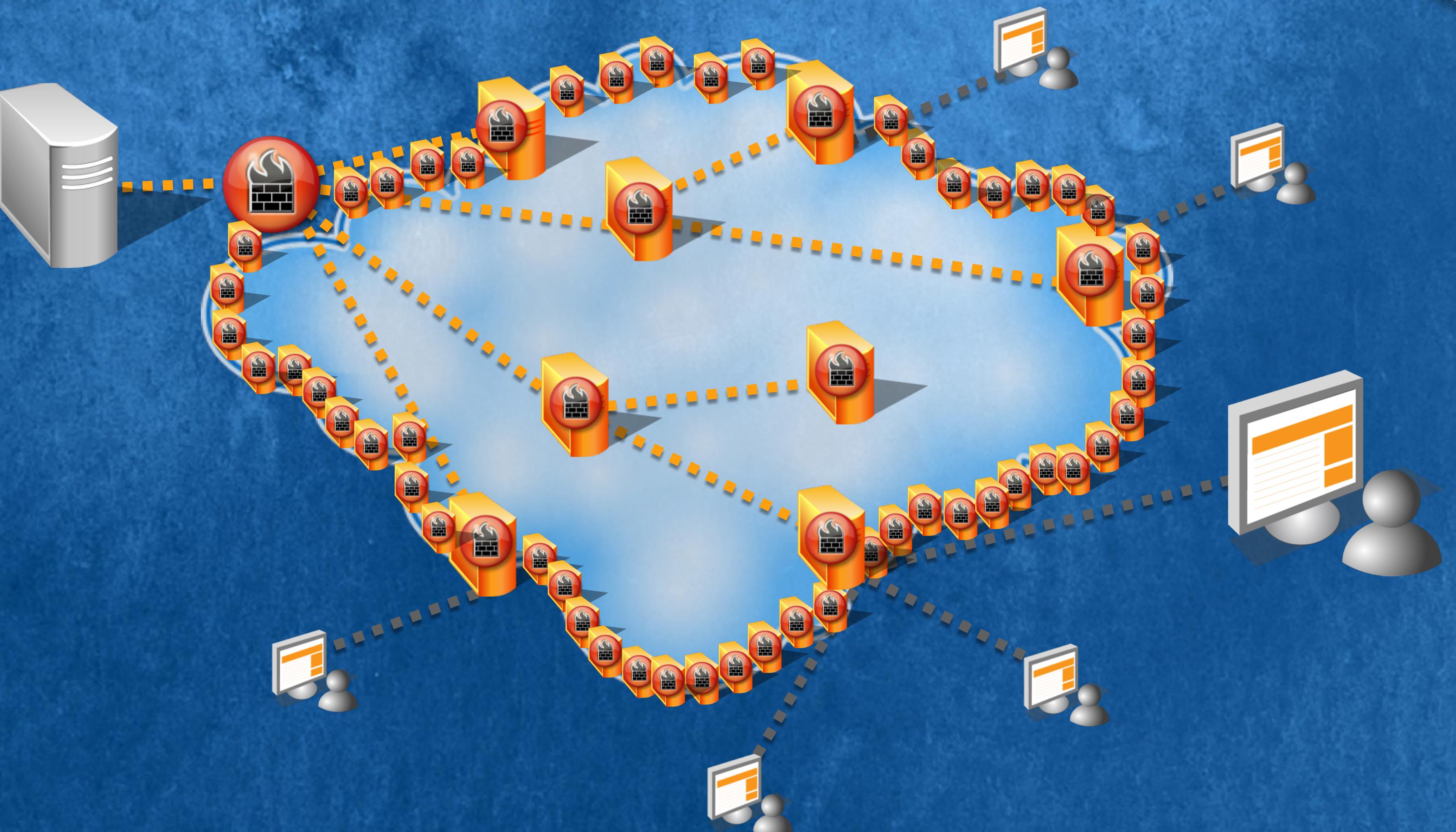
Guardian Cloud Architecture



Guardian Cloud Architecture

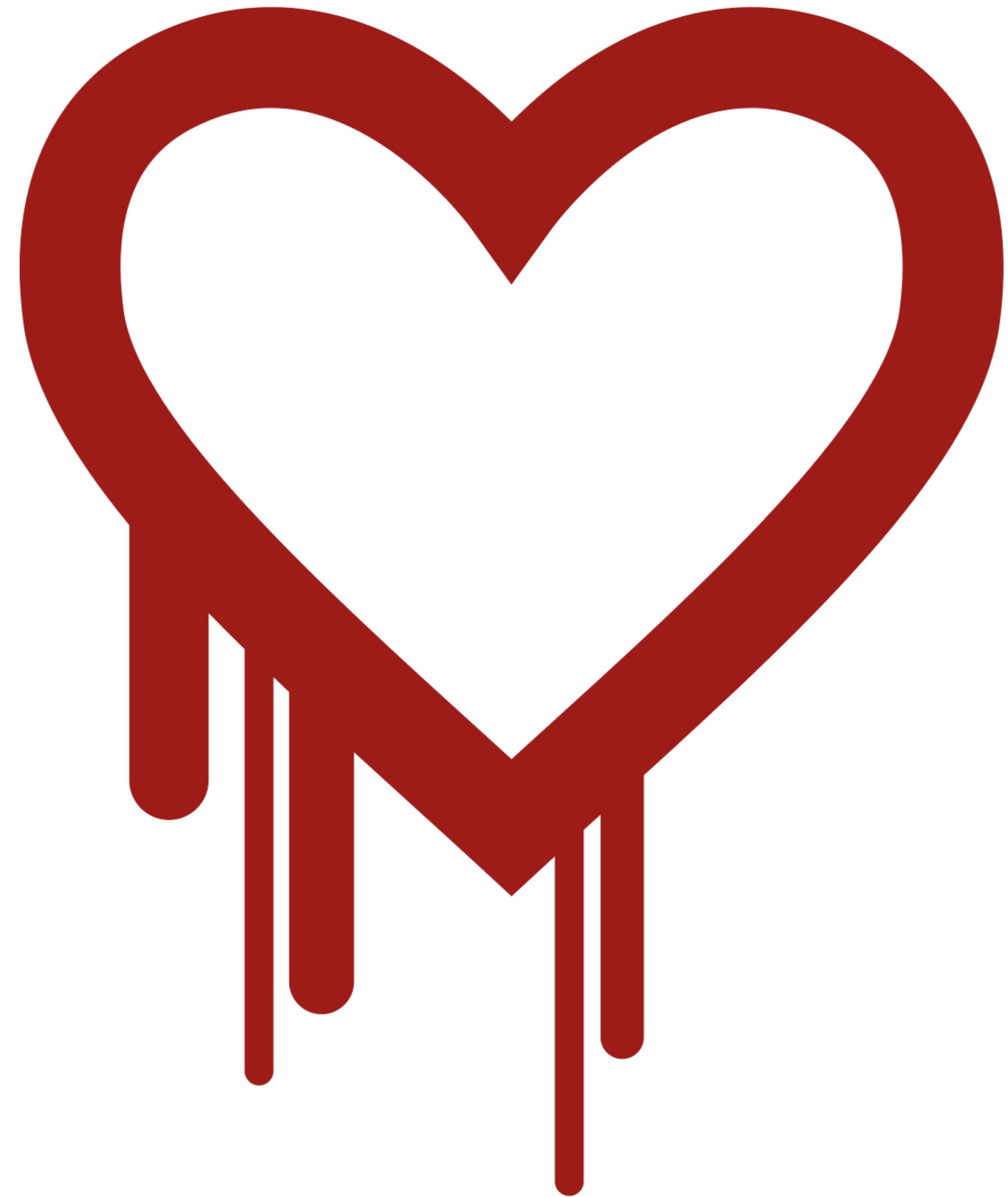


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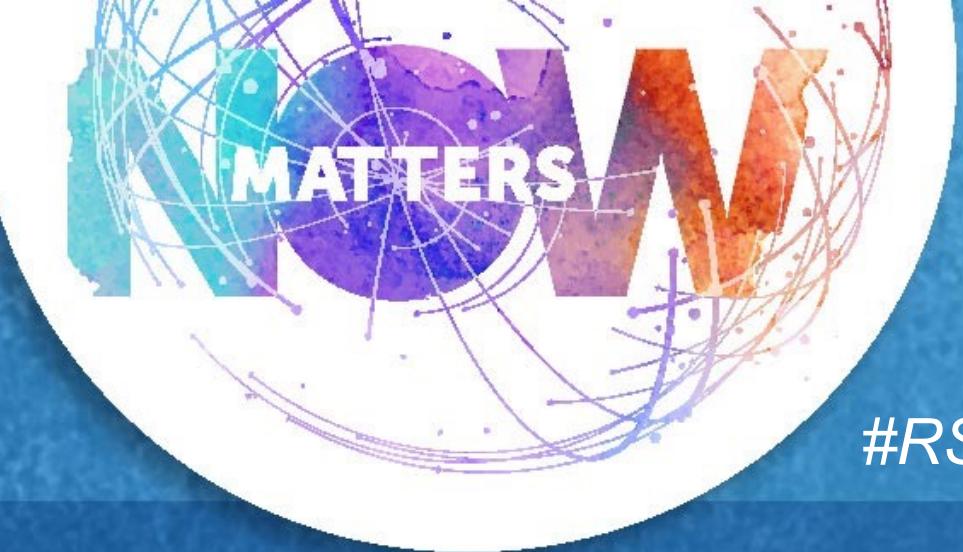


A photograph of a person's arm and hand reaching upwards from the bottom of the frame, emerging from dark blue ocean water. The hand is open, palm facing forward, as if reaching for something in a bright, cloudy sky above.

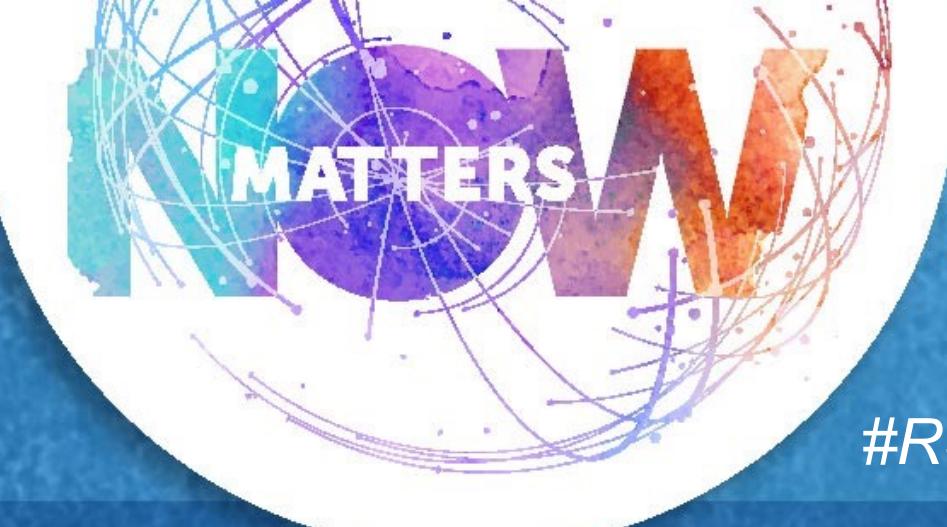
Defining Security Debt



How Did We Get Here?



“Accepted The Risk”



Compound Interest

- Risks left unaddressed
- Years pass
- More software is added to the mix
- Layers of risk
- Danger grows with time and inaction



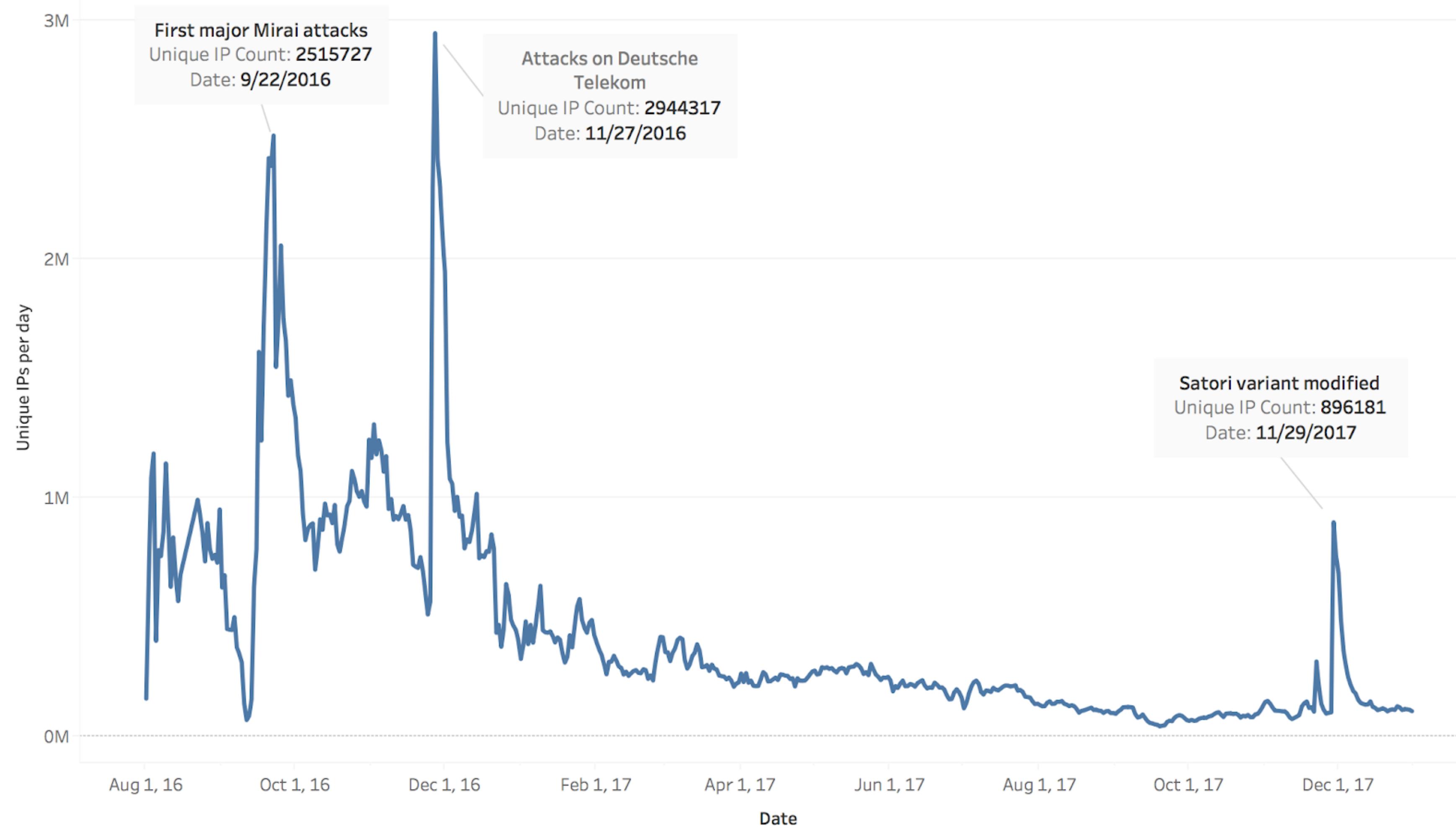
How IoT Drives The Cost Higher

INTERNET OF THINGS



The Fall Out

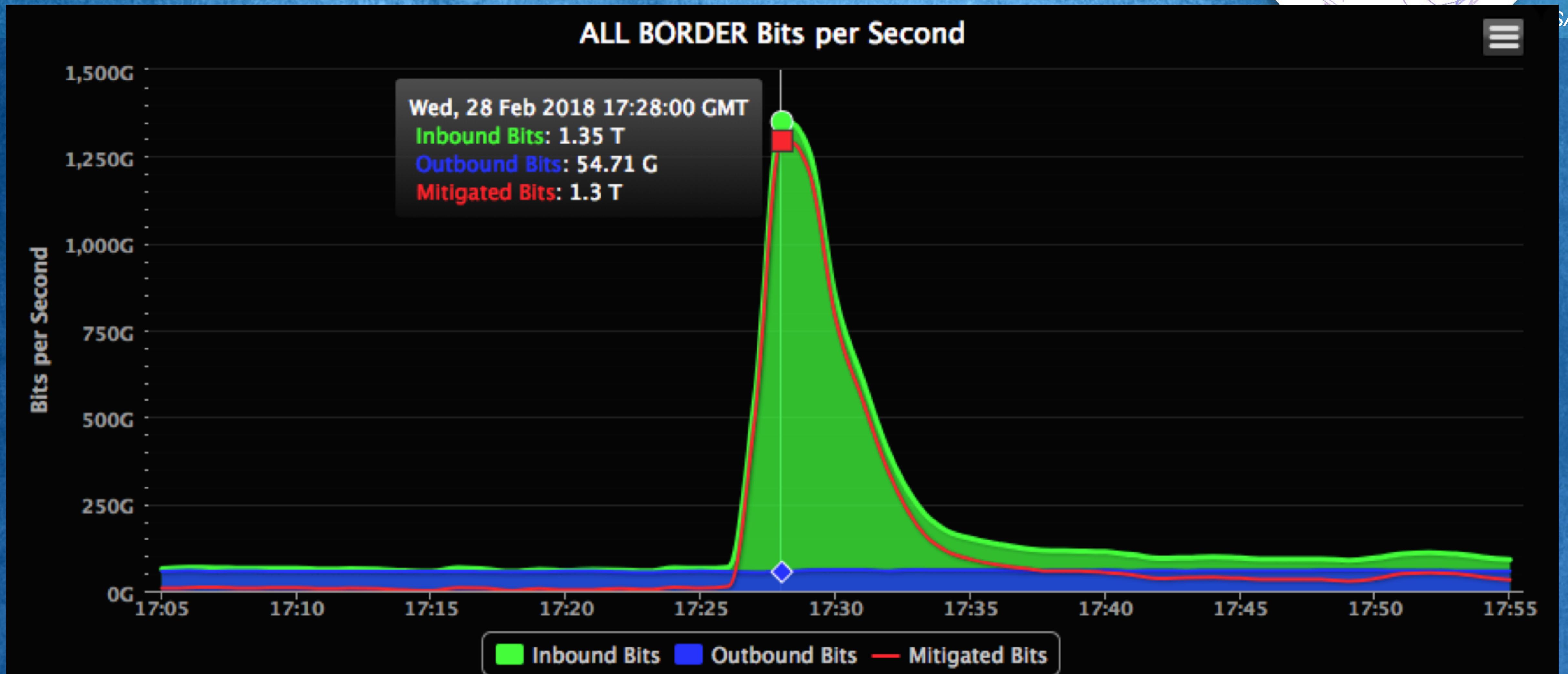
Unique IPs in the Mirai Botnet by day





How Debt Can Grow

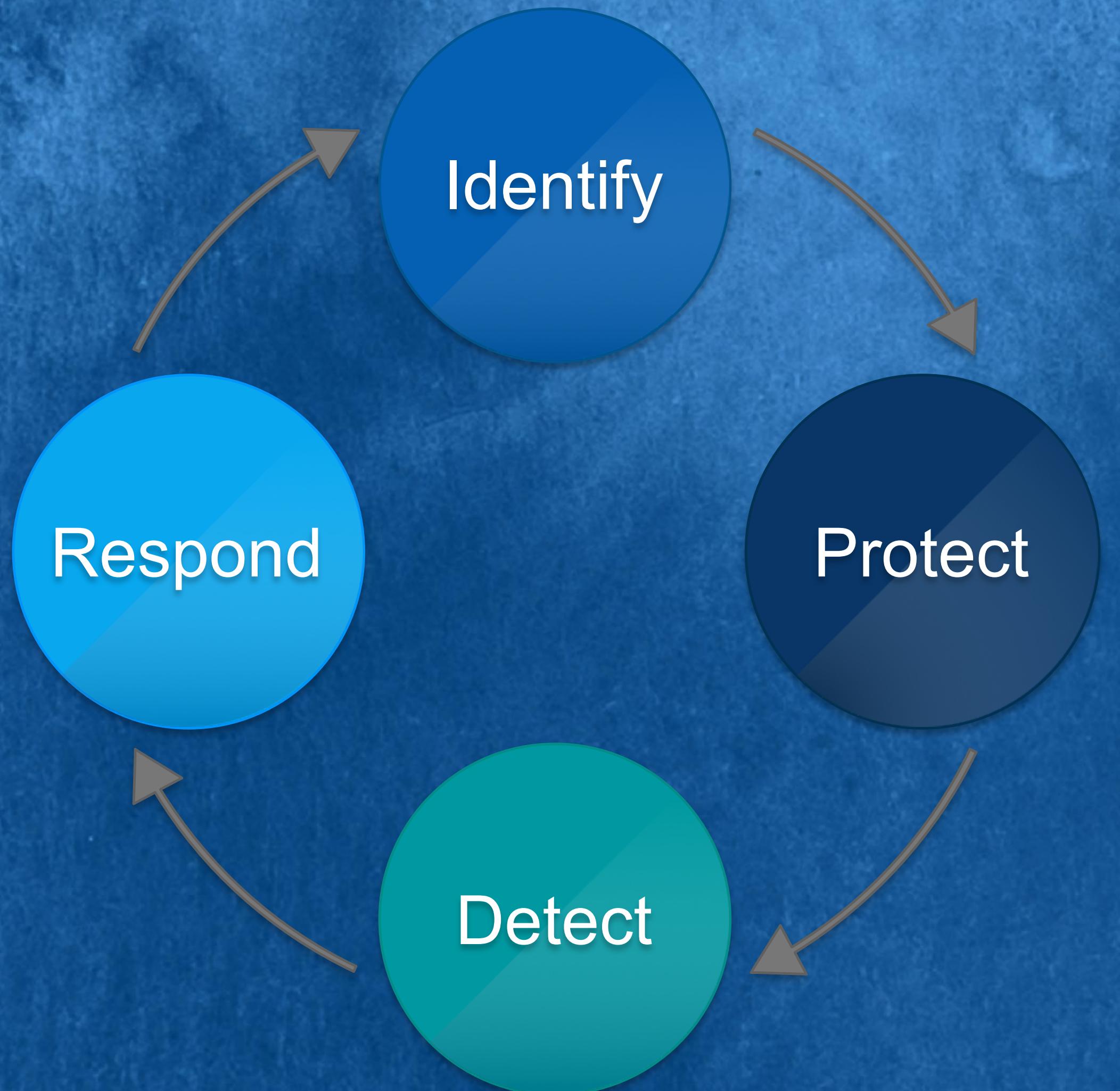
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Ride The Cycle



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The Flaming Sword of Justice!

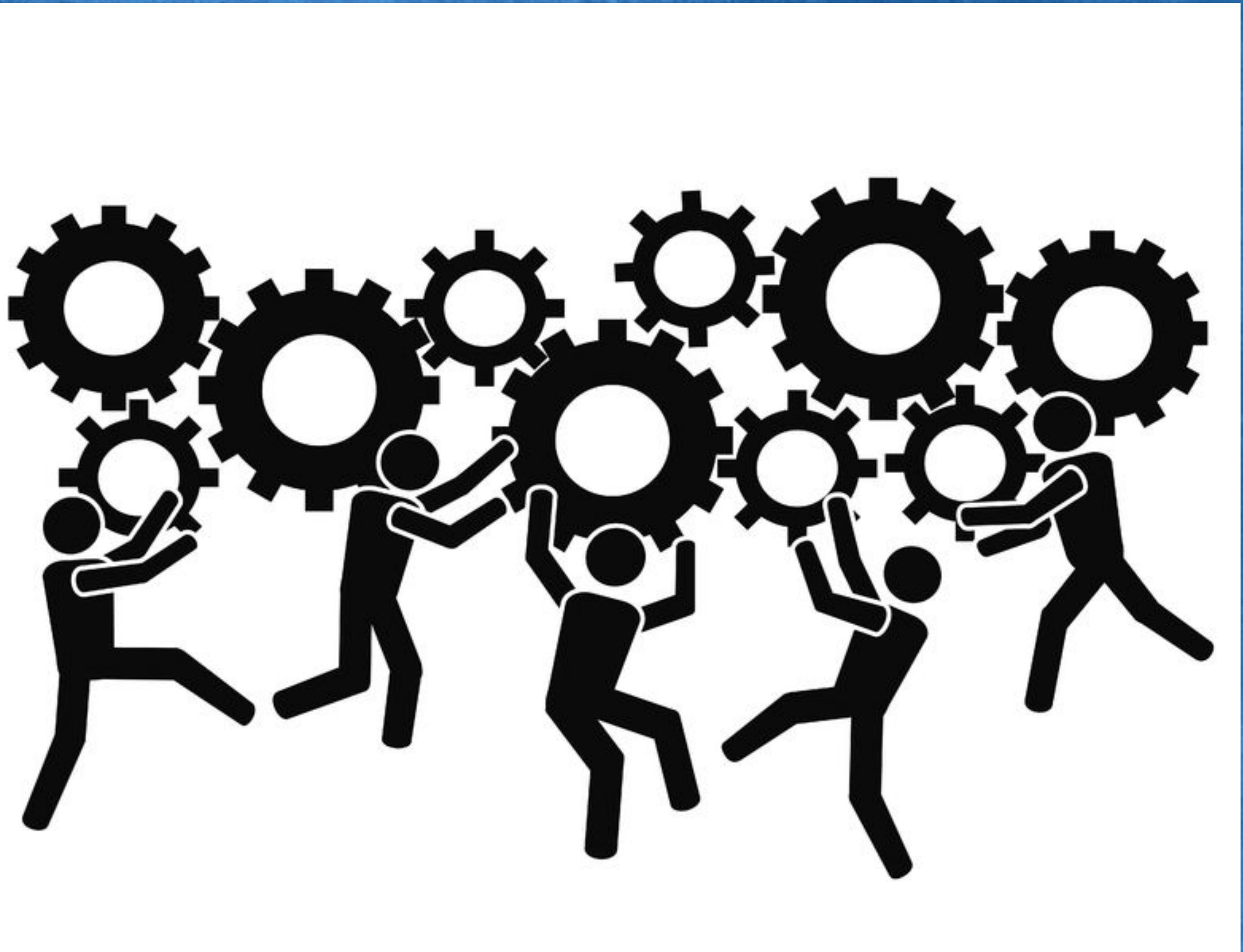


Zero Trust

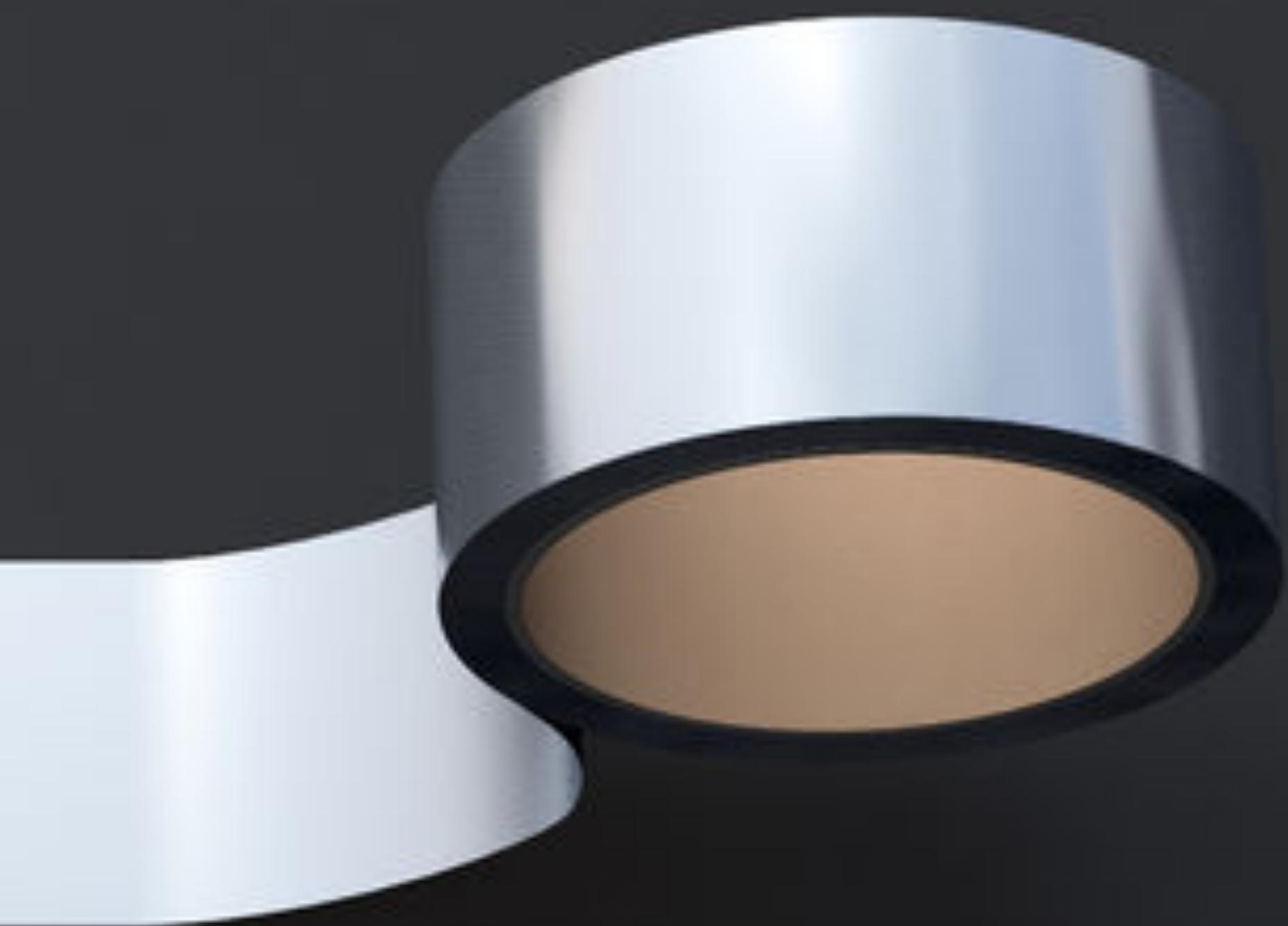


Security as Part of Mission

- Developers need to see security as a core competency of their skill set and mission
- All stake holders need to be a part of the solution!



Bailing Wire & Duct Tape



Strategy as Defense



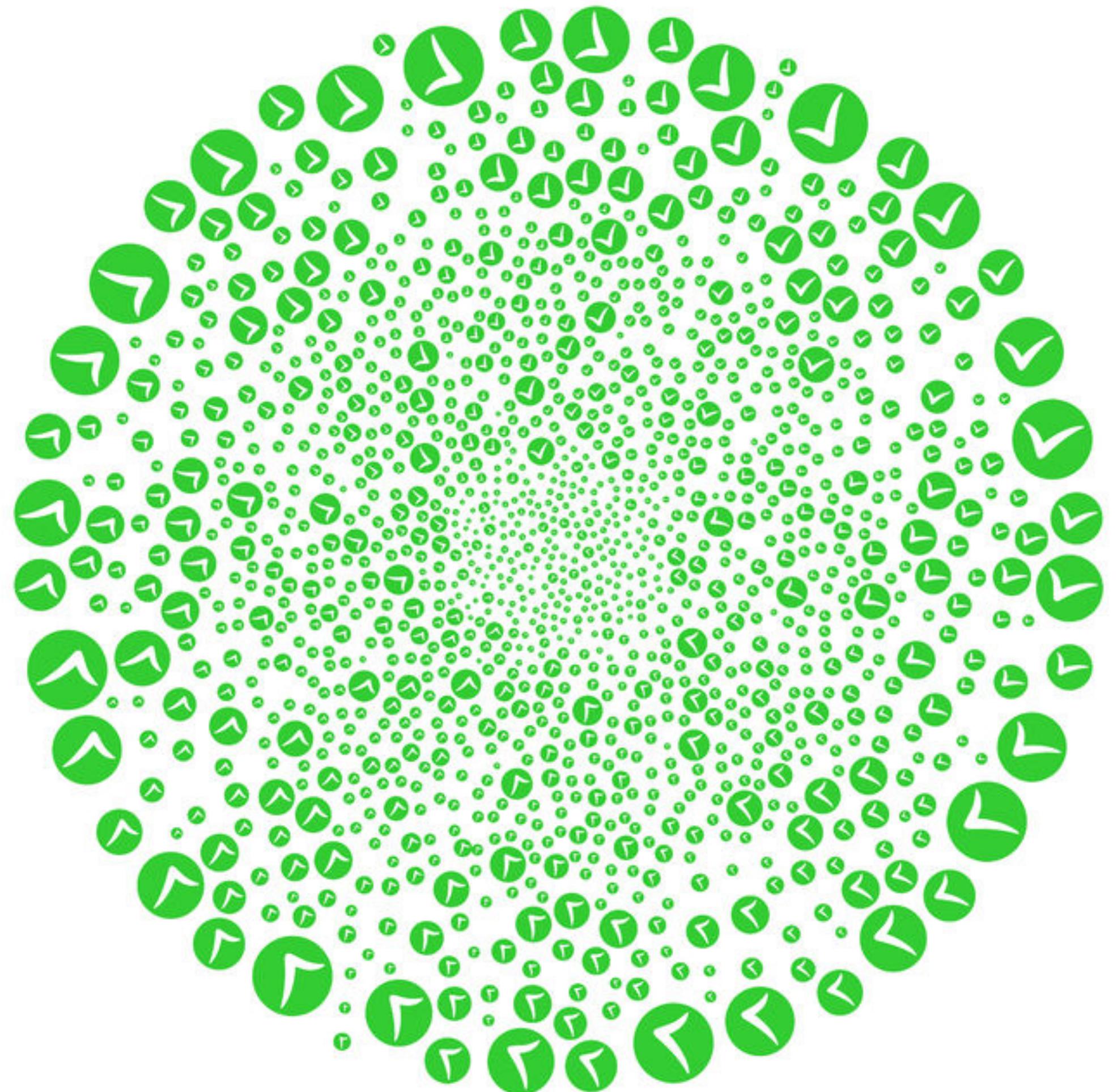
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Trust But (Test) & Verify



- Trust the users...but, verify.
- Sanitize your inputs
- Sanitize your outputs
- Patch Patch PATCH





War Stories, So Many Stories...

Wrapping up...



THANK YOU