# Final Engagement

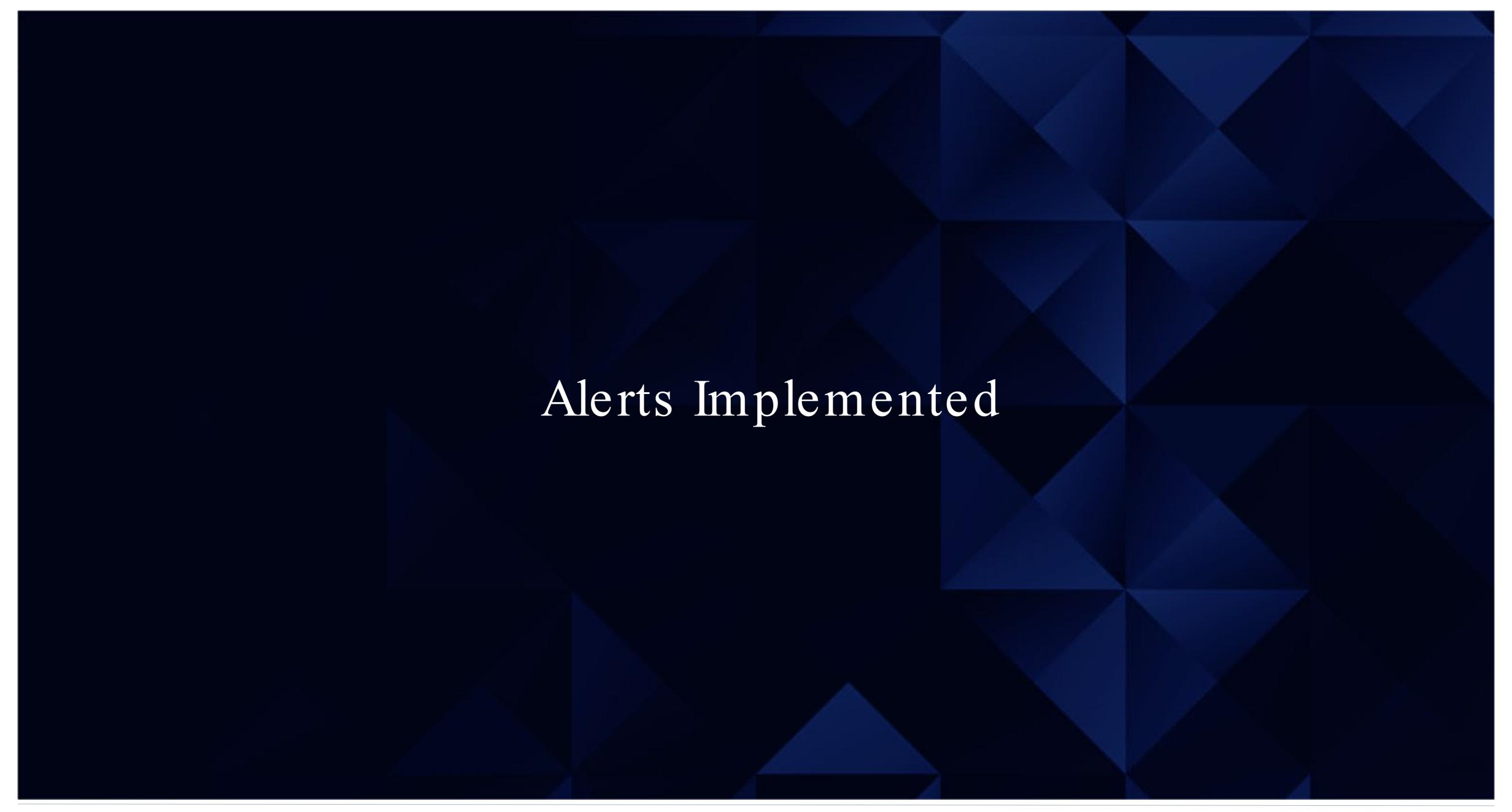
Attack, Defense & Analysis of a Vulnerable Network

## Start of Blue Team Presentation

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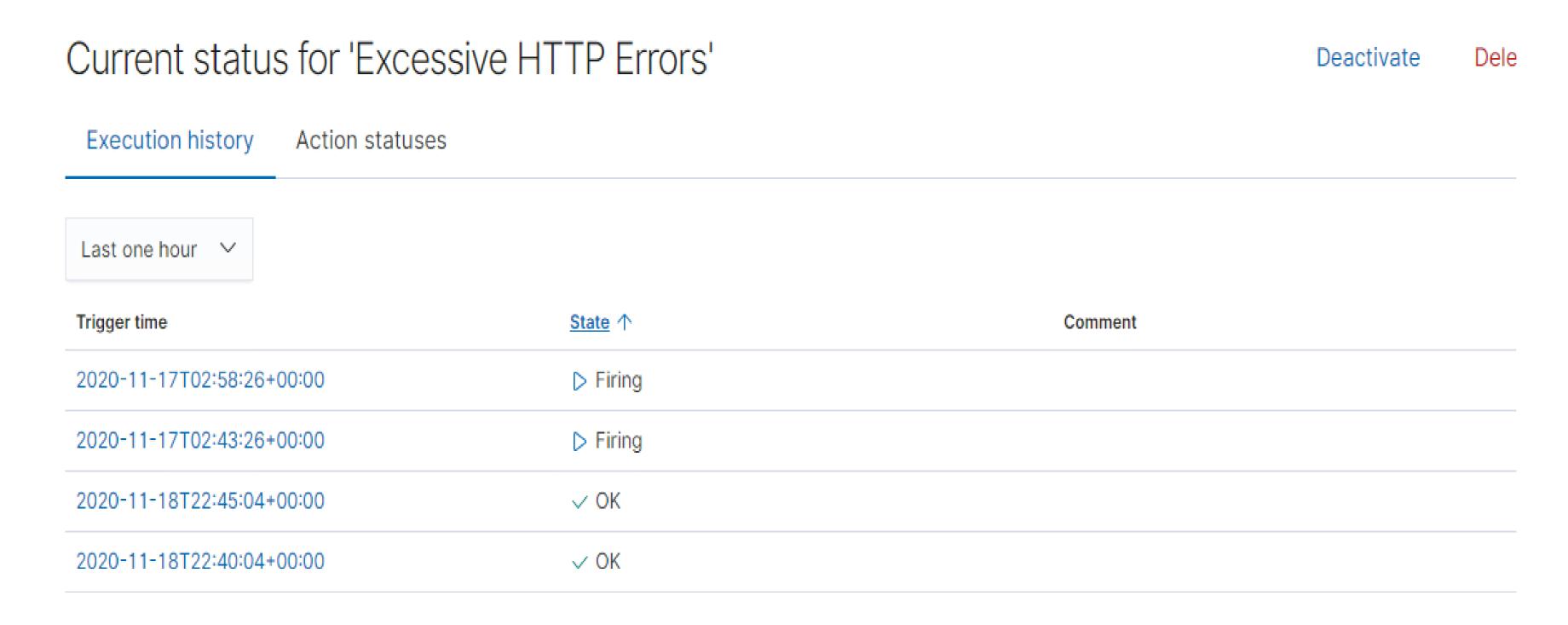
This document contains the following resources:





#### [HTTP Errors]

- This metric alert monitors HTTP
- The threshold fires at 400
- Low reliability



#### [HTTP Request Size Monitor]

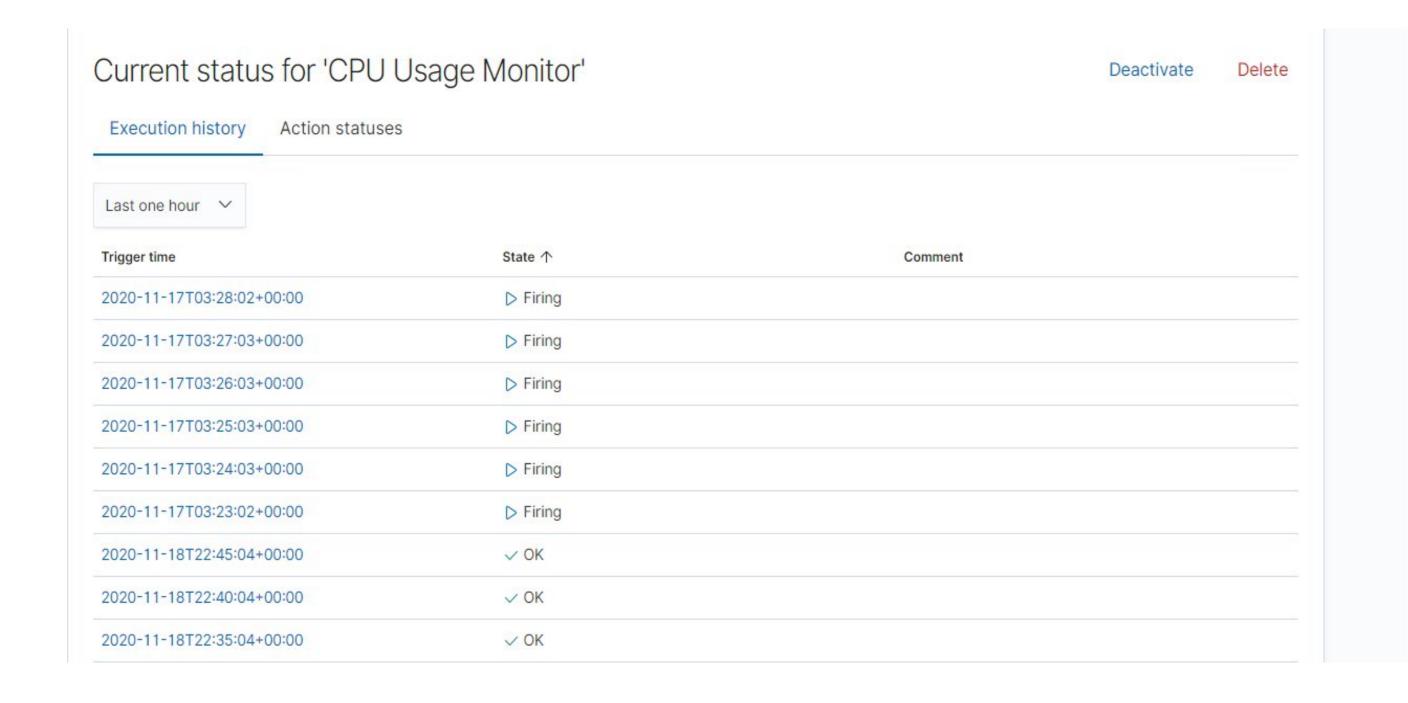
- The metric alert monitors http.request.bytes
- The threshold fires at 3400
- Low Reliability

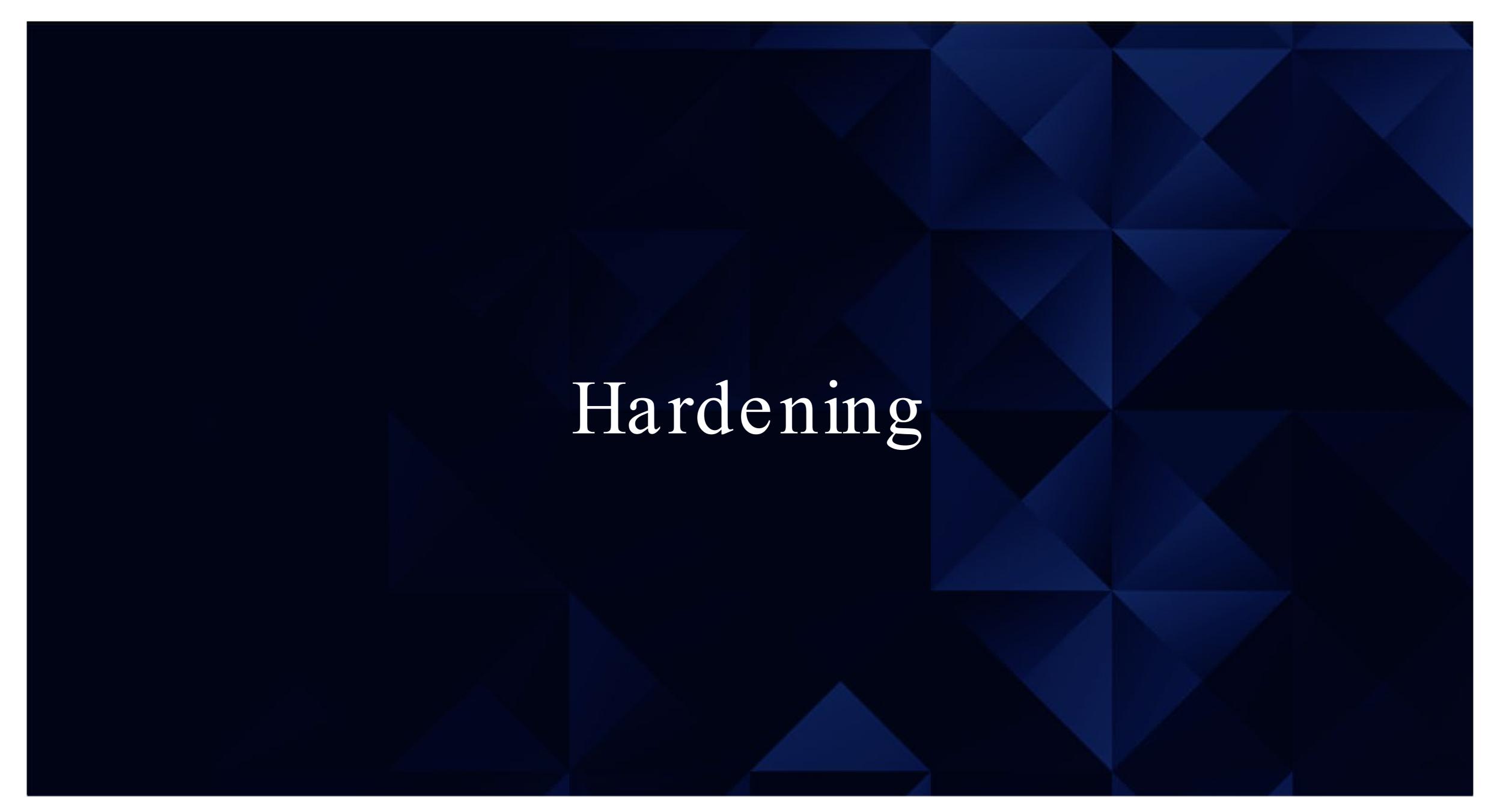
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Current status for 'HTTP Request Size Monitor'			Deactivate	Delete
Execution history Action statuses				
Last 7 days ∨				
Trigger time	State ↑	Comment		
2020-11-18T22:48:04+00:00	▶ Firing			
2020-11-18T22:47:04+00:00	▷ Firing			
2020-11-18T22:46:04+00:00	▶ Firing			
2020-11-18T22:45:04+00:00	▷ Firing			
2020-11-18T22:44:04+00:00	▷ Firing			
2020-11-18T22:43:04+00:00	▷ Firing			
2020-11-18T22:38:04+00:00	▷ Firing			
2020-11-18T22:37:04+00:00	▶ Firing			
2020-11-18T22:36:04+00:00	▶ Firing			
2020-11-18T22:34:04+00:00	▶ Firing			
2020-11-18T22:33:04+00:00	▶ Firing			
2020-11-18T22:32:04+00:00	▶ Firing			
2020-11-18T22:31:04+00:00	▶ Firing			
2020-11-18T22:30:04+00:00	▶ Firing			
2020-11-18T22:29:04+00:00	▷ Firing			
2020-11-18T22:24:04+00:00	▷ Firing			
2020-11-18T22:23:04+00:00	▷ Firing			
2020-11-18T22:22:04+00:00	▷ Firing			

#### [CPU Usage Monitor]

- The metric alert monitors system.process.cpu.total.pct
- The threshold it fires at 0.5





#### Hardening Against [Open Ports] on Target 1

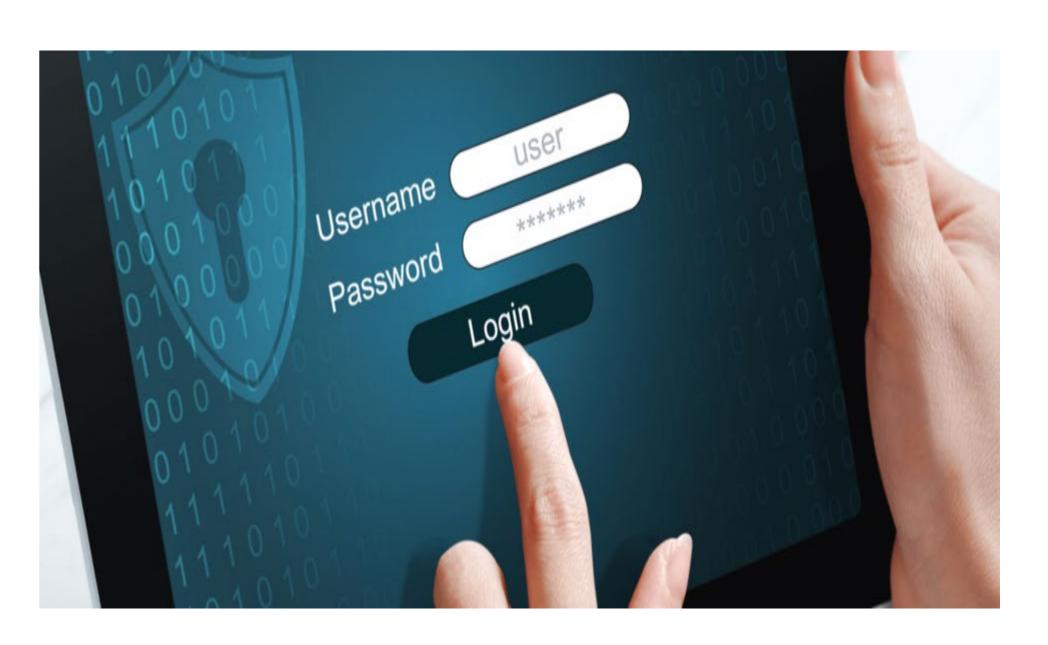
- Disable Root Logins
- Use Public/Private Keys for Authentication
- Assign Another port (Non standard port) for ssh, http etc
- Disable ICMP to prevent port scans

#### Hardening Against [Excessive CPU Usage] on Target 1

- Load Balancer should be implemented prevent web-servers from overloading and to add redundancy.
  - Why It Works: Load balancers also add resiliency by rerouting live traffic from one server to another if a server falls prey to DDoS attacks or otherwise becomes unavailable.
- Set an alert that if a user exceeds the expected baseline traffic slow them down or block them temporarily and investigate their actions.
  - If a user was behaving maliciously you may quickly detect it or even prevent it.

### Hardening Against [Password Vulnerability] on Target 1

- Make a policy to require secure passwords
  - Ouidelines: minimum 16 characters long
  - O Must have a capital letter
  - Must have a lowercase letter
  - Must have a number
  - Must have a symbol
  - Lockout users after after multiple failed attempts
  - Maintain geolocation data of where a user logs in from and monitor for anomalies





#### Implementing Patches

