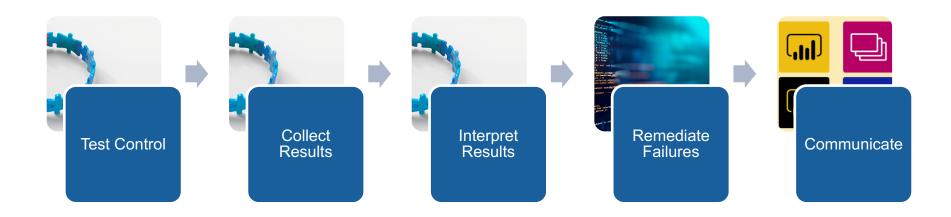
# The Aaron's Company, Inc.

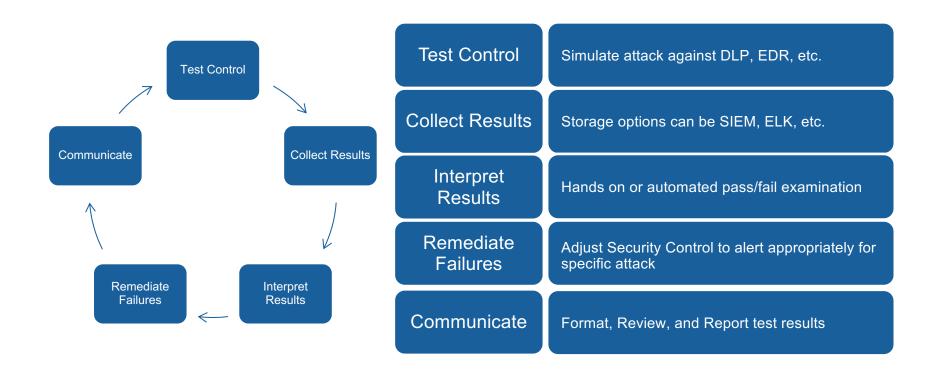
Security Control Validation on a Budget

## **Business Case**

- We wanted a security control validation solution, but not the price tag
- Atomic Red Team and Vectr.io were used as a starting point
- Resulted in a more robust, customizable, and automated solution

# Security Control Validation Process

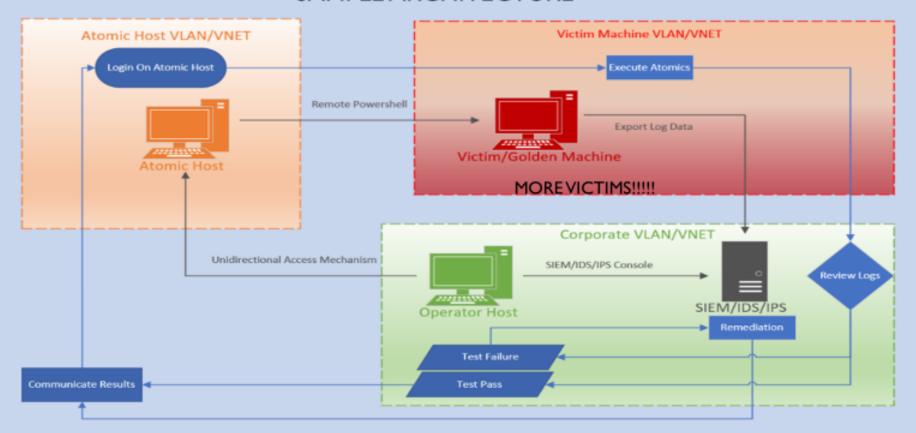




## Direct Correlation to MITRE ATT&CK Matrix



### SAMPLE ARCHITECTURE



## GOING NUCLEAR – ATOMIC RED TEAM

```
PS C:\WINDOWS\system32> Invoke-AtomicTest T1053.005 -ShowDetailsBrief
PathToAtomicsFolder = C:\AtomicRedTeam\atomics

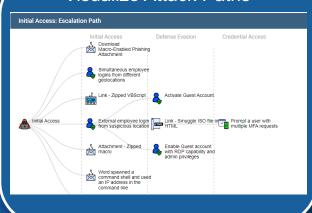
T1053.005-1 Scheduled Task Startup Script
T1053.005-2 Scheduled task Local
T1053.005-3 Scheduled task Remote
T1053.005-4 Powershell Cmdlet Scheduled Task
T1053.005-5 Task Scheduler via VBA
T1053.005-6 WMI Invoke-CimMethod Scheduled Task
```

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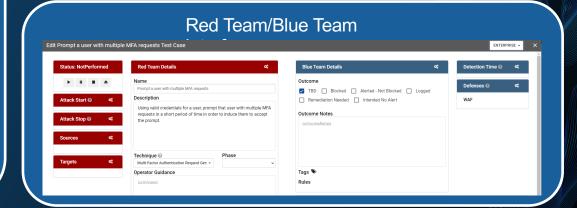
# **A**vectr

### Visualize Attack Paths



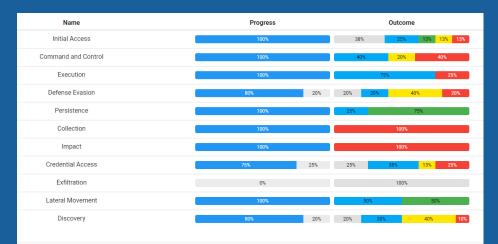
Heat Map
Visualization of
MITRE
ATT&CK
Relationship





# Example Metrics





#### Retest and Relate

- Emphasize when a test is repeated
- Relationship to other tests in cycle
- Relationship to other tests against same security control
- \* Blue = Alert & Block
- \* Green = Alert & No Block
- \* Yellow = Expected Behavior
  - \* Red = Remediation Needed

## The Aaron's Team

- John Dearman, Security Architect
- Tyler Compton, Lead Security Engineer
- Jonathan Buckner, Junior Security Engineer