CYBERSECURITY PROJECT

PROJECT TITLE: ASSESSMENT DESIGN FOR SECURITY CONTROLS

TEST: SIGNATURE-BASED VALIDATION TESTING WITH ATTACKIQ BREACH AND ATTACK SIMULATION FRAMEWORK

TEST PLAN SCENARIO:

So I joined the company (LinQ Technologies) team as a Security Validation Analyst and I've been tasked with testing the company's existing security controls to validate that they are working as expected.

TEST SCHEDULE PLANNING

The schedule of when assessments are executed may seem like a minor consideration. However, when an assessment is scheduled to run can ultimately impact results. Here are some things to think about when determining when and how often to run an assessment:

- Are the assets to be tested remote or local? Always available? Business-critical?
- Will the scenarios have any impact on local users?
- How often could my test results change?
- How does this testing fit in with the overall IT/Security Operations schedule?

ANTI-VIRUS SIGNATURE-BASED TESTING

TEST SCHEDULE

Test Statement	Does the anti-virus in place stop Malware?
	Hypothesis: The Security Team believes everything is working as they should
Assets:	System 1(acad6969): A Microsoft Windows 10 Pro, Protected with CB -EDR by
	Carbon Black.
	System 2(acad2815): A Microsoft Windows 10 Pro, Unprotected
Scenarios	1. Download <i>EICAR</i> files to Memory
	2. Download Zip EICAR file to memory
	3. Download txt EICAR file to memory
	4. Download double Zipped EICAR file to memory
Schedule:	At least 2 times in a week, None Business days/hours.

Ref: The EICAR Anti-Virus Test File or EICAR test file is a computer file developed by the European Institute for Computer Antivirus Research (EICAR) and Computer Antivirus Research Organization (CARO) to test the response of computer antivirus (AV) programs

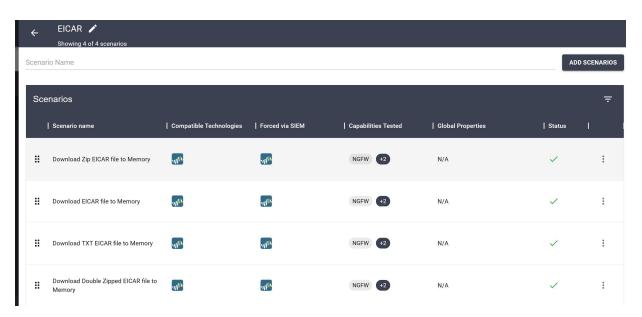
Test Statement	Does the anti-virus in place stop Malware?
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Assets:	System 1(acad6969): A Microsoft Windows 10 Pro, Protected with CB -EDR by
	Carbon Black.
	System 2(acad2815): A Microsoft Windows 10 Pro, Unprotected
Scenarios	1. Download MAZE Ransomware Sample to Memory
	2. Download Zip Robinh to memory
	3. Download txt EICAR file to memory
	4. Download double Zipped EICAR file to memory
Schedule:	At least 2 times in a week, None Business days/hours.

Requirements:

1. ATTC&CKIQ Breach and Simulation Platform

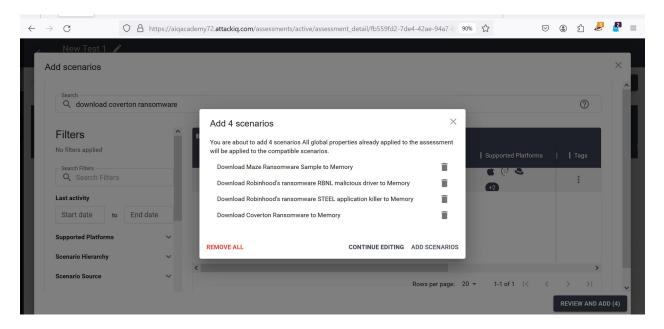
2. EICAR Anti-Virus Test Files

- a. EICAR File
- b. Zipped EICAR File
- c. TXT EICAR File
- d. Double Zipped EICAR File



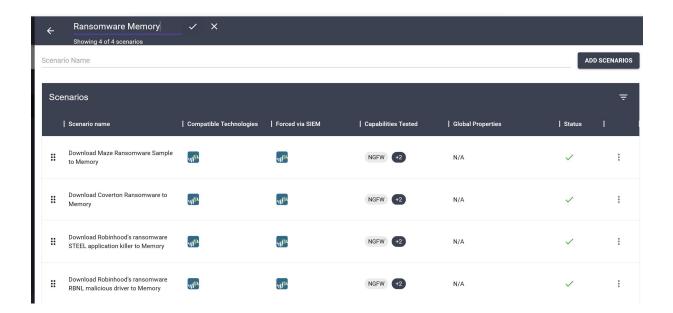
3. RANSOMWARE TEST FILES

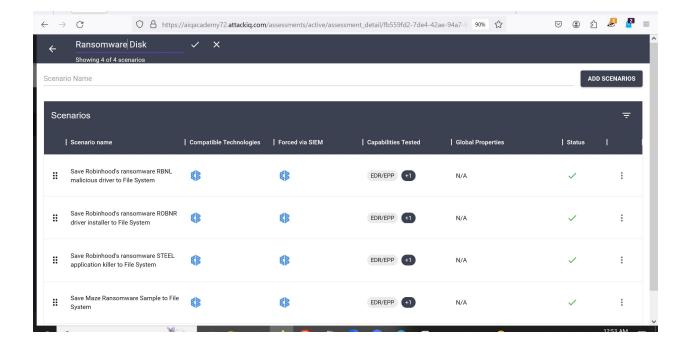
- a. MAZE Ransomware Sample
- b. Robinhood Ransomware RBNL Test Script
- c. Robinhood Ransomware STEEL Application Stealer Test Script
- d. Coverton Ransomware Test Script



1. RANSOMWARE TEST FILES

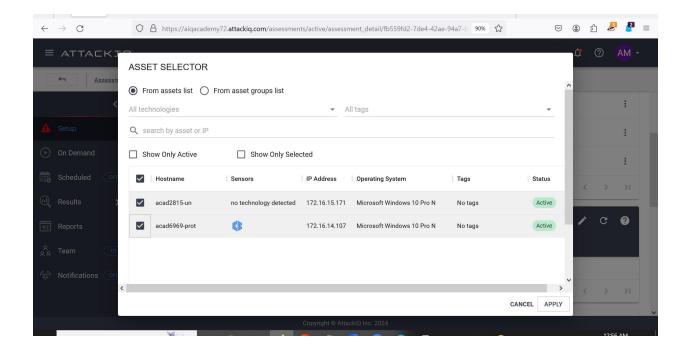
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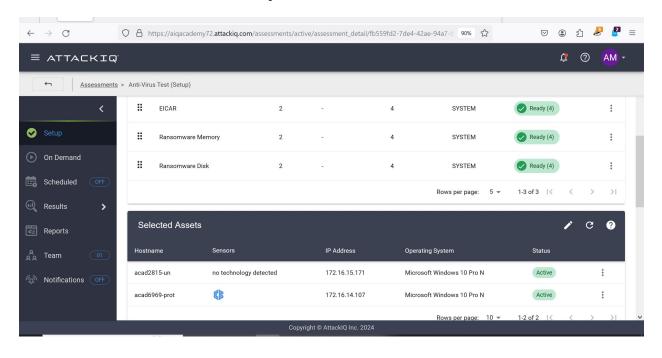


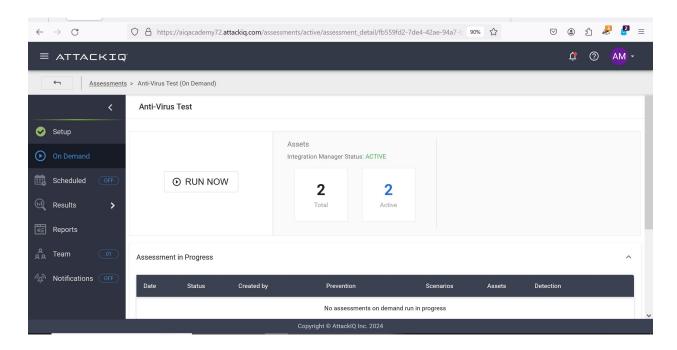
SELECTED ASSET (Target-PCs):

- ACAD6969-prot is the CB EDR by Carbon Black the while second asset is unprotected
- ACAD2815-un is unprotected

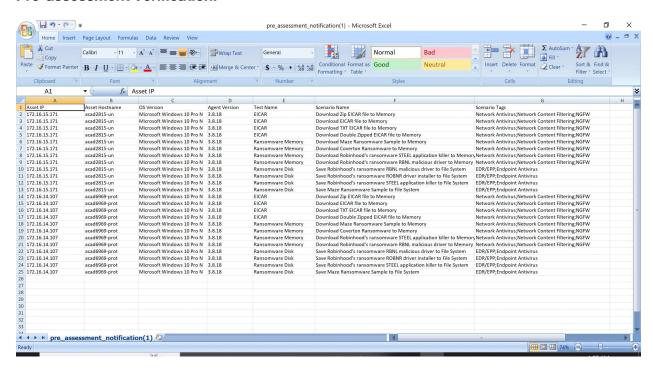


Now our scenarios are set and ready to be tested:

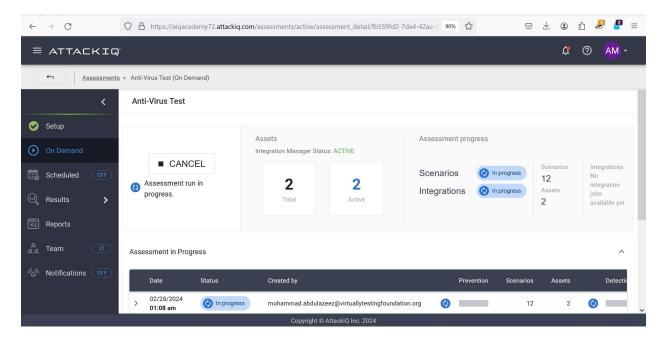




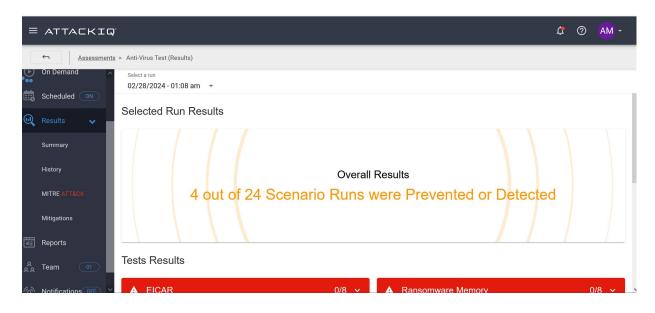
Pre-assessment Verification:

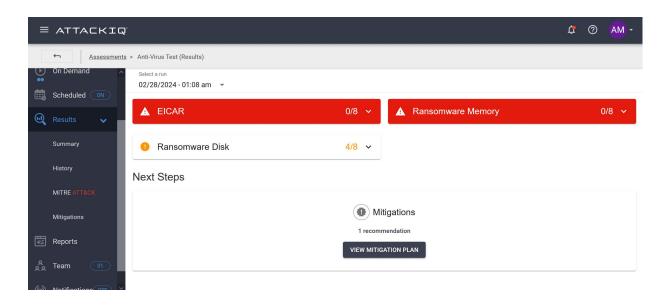


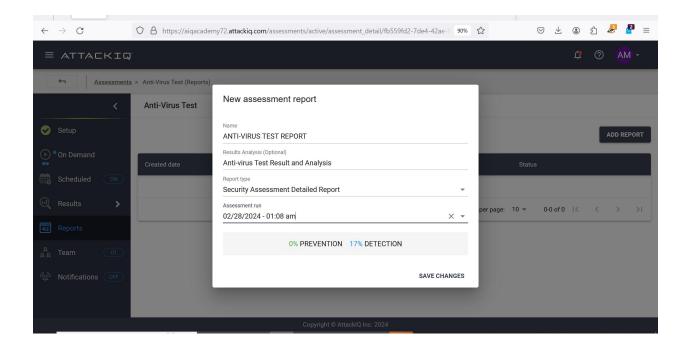
Test is now running:



REPORTING







IN CONCLUSION

A comprehensive assessment Report containing results, starting at an executive Summary level with overall scenario pass rates and then progresses to increasingly detailed information about individual scenarios, assets, and mitigation recommendations was prepared and sent to the Board of Executives.