

Adversary Simulation Workshop

Lab Guide: ATT&CK Automation

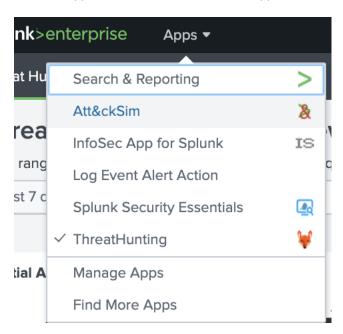
Objective:

Use the AttackSimulator app to trigger an atomic test on your student machine.

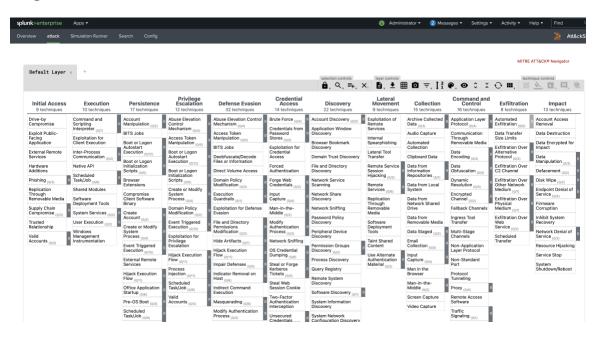
Instructions:

Note: There are various Enterprise grade commercial tools for adversary simulation, the AttackSimulator app is meant to provide a simple example of the use of automation for testing.

From the Apps menu choose the Att&ckSim app:



You will notice that when the app load you are presented with an embedded version of the ATT&CK Navigator:

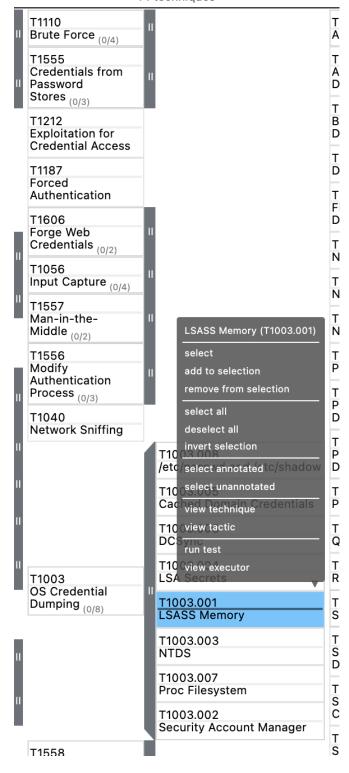


There are a few difference with regards to the extended capabilities but generally it's the same view that you would see on the github version of ATT&CK.

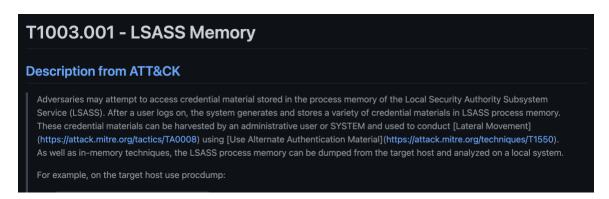
Right-click on the technique T1003.001.

TA0006 Credential Access

14 techniques



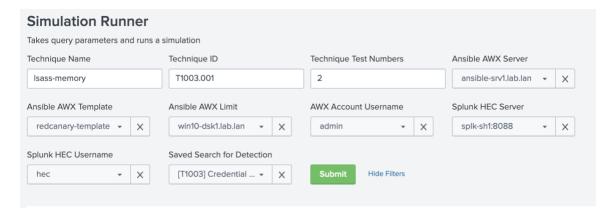
There are two new menu items available in the list, run test and view executor. Click the "view executor" link to see the atomic test from atomicredteam. Click the T1003.001.md file to see the write-up.



Now click the "run test" link and you'll be taken to a new dashboard called the Simulation Runner:



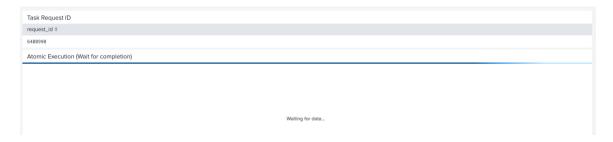
A number of the fields have been pre-populated based on where you launched the test from in the navigator. Fill out the rest of the fields and click search to launch the test:



This version of the AttackSimulator hooks into our ansible instance but the original version was written to integrate with Splunk's Phantom tool (SOAR).

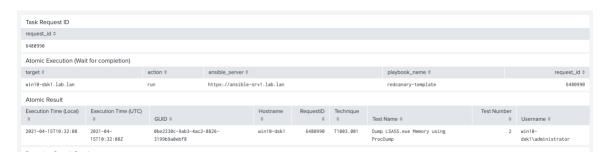
Click submit and wait for the test to run:





While waiting for the test to complete check back with your student machine to see evidence of the test running.

Once completed the test will display the results of the execution:



In the panel below the search results, as an investigator you can use Splunk and the data provided back form the test to understand and track how well your alerts are working.

Detection Search Panel Detection Search Fired? Needs Data Have Data; Not Detected Detection for single subtechnique Detection for multiple sub-techniques Active Correlation rule(s) in place Highest confidence		
 Needs Data Have Data; Not Detected Detection for single subtechnique Detection for multiple sub-techniques Active Correlation rule(s) in place 	De	etection Search Panel
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sub-techniques Active Correlation rule(s) in place	0	
in place	0	·
Highest confidence	0	
	0	Highest confidence



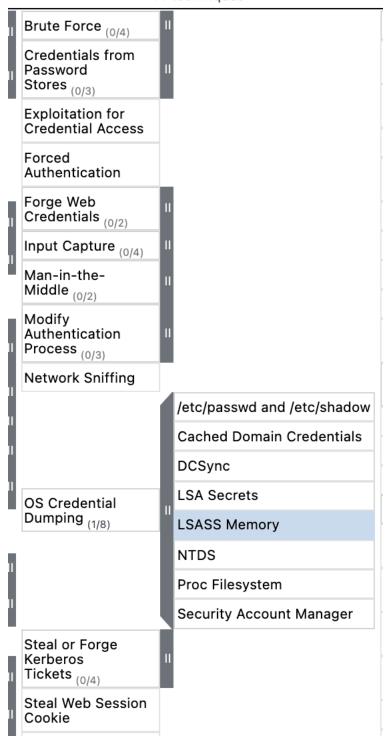
The results of for this test are tracked in the embedded ATT&CK navigator. Click any one of the colours and in a new tab re-open the embedded navigator.

Detection Search Panel
Detection Search Fired?
Needs Data
Have Data; Not Detected
Detection for single sub- technique
Oetection for multiple sub-techniques
Active Correlation rule(s) in place
Highest confidence

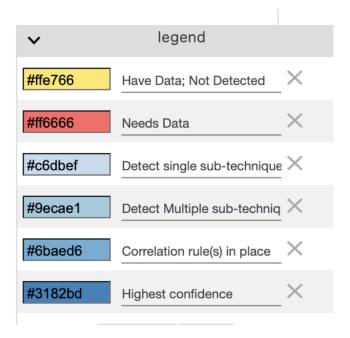
Now notice that a colour has been assigned to the T1003.001 technique:

Credential Access

14 techniques



Pop open the legend at the bottom to see the mapping for each colour:



Using the atomic redteam as our attack simulation tool, coupled with automation and integrated tracking we can start to build a continuous assessment loop!

End of Lab