SOAR-EDR Project

Project Description

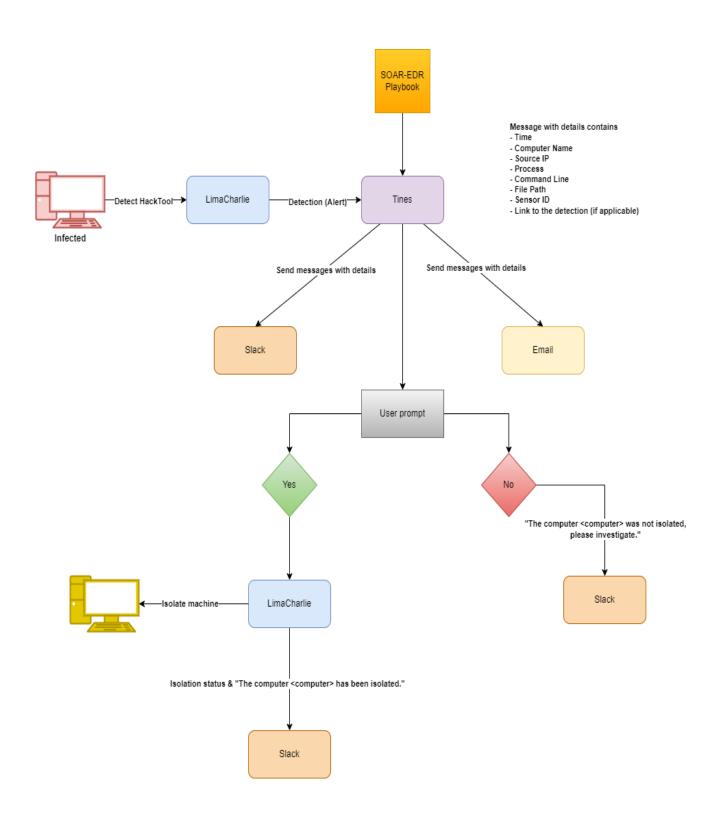
In this project, I will be creating a detection rule in LimaCharlie (an EDR platform) that will detect a tool used to recover passwords on a machine and send it over to Tines (a SOAR platform), which will have a playbook that I created. The playbook will send the user an email, a Slack message, and finally ask if they want to isolate the machine. If the user says "Yes", LimaCharlie will isolate the machine automatically.

Software and Tools

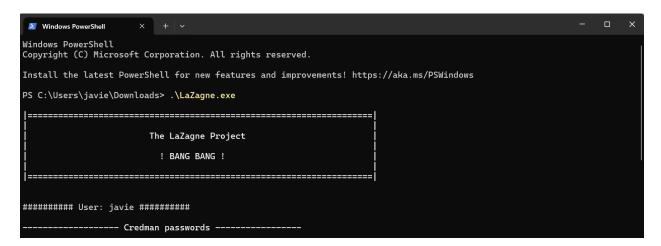
- LimaCharlie
- LaZagne
- Slack
- Tines
- Square X

Walkthrough

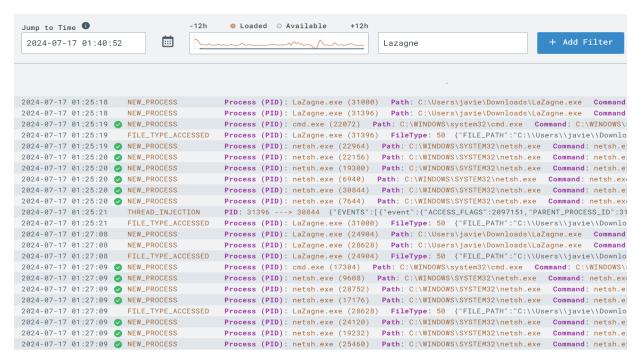
Before I start, I will create a playbook workflow to help me accomplish my objectives. The following illustrated image should demonstrate the mentioned workflow:



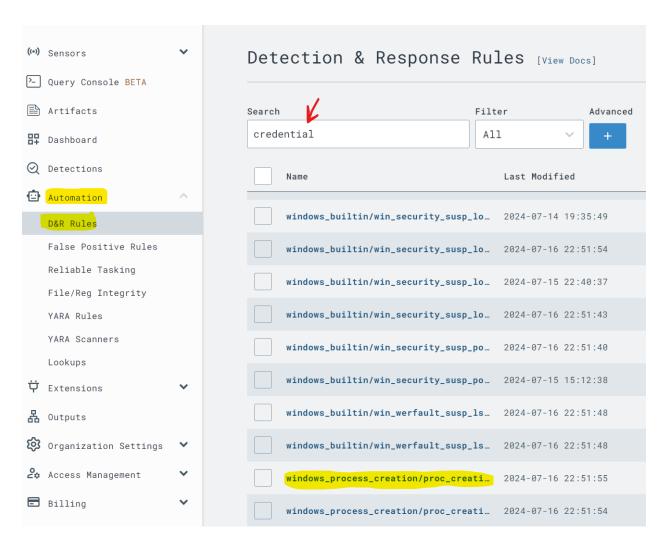
I proceeded to download LaZagne, which is a password recovery tool. Once downloaded, I opened Windows Powershell and executed the application. The reason I did this is for LimaCharlie to detect the process for LaZagne.



Once I visited LimaCharlie, I went to Sensor > Sensor List > selected my machine > Timeline. To simplify the results, I typed "Lazagne" on the Quick Search tab to only see events related to the application.



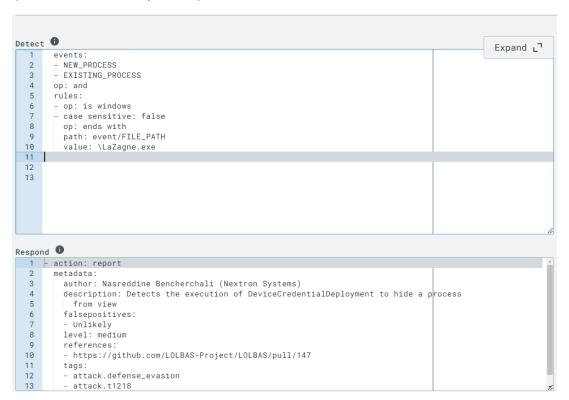
As seen in the image above, most of the app's events fall into the NEW_PROCESS event type. Now that I know the event type, I will proceed in creating a rule related to this event. I went to Sensors > Automation > D&R Rules and searched for rules that had to do with credentials. Then, I picked one that includes "process" in its name since the event type gathered from Lazagne includes the same word.



Then, I proceeded in viewing the rule on GitHub. I clicked the Raw tab so I can copy the code.

```
Code Blame 27 lines (26 loc) · 630 Bytes
                                                                                                                                                             Raw 🕒 🕹
         detect:
           events:
           - NEW PROCESS
          - EXISTING PROCESS
          op: and
          rules:
           - op: is windows
          - case sensitive: false
            op: ends with
          path: event/FILE_PATH
  11
            value: \DeviceCredentialDeployment.exe
  12
        respond:
        - action: report
  13
          metadata:
           author: Nasreddine Bencherchali (Nextron Systems)
            description: Detects the execution of DeviceCredentialDeployment to hide a process
           falsepositives:
             - Unlikely
           level: medium
  20
           references:
            - https://github.com/LOLBAS-Project/LOLBAS/pull/147
  22
            tags:
            - attack.defense_evasion
          name: DeviceCredentialDeployment Execution
```

I went back to *D&R Rules*, clicked the "+ New Rule" button, and pasted the raw code, allocating the code blocks to their corresponding sections (Detect and Response) as seen below.



In the **Detect** block, I modified the rule to include other elements. This new rule, while ignoring case sensitive, now states that the event type must be either <u>NEW_PROCESS</u> or <u>EXISTING_PROCESS</u> and must be Windows; <u>FILE_PATH</u> ends with <u>Lazagne.exe</u>, or <u>COMMAND_LINE</u> ends with either <u>all</u> or contains <u>lazagne</u>; or <u>HASH</u> equals the lazagne hash value. This new rule can be seen below.

```
Detect 0
 1 events:
     - NEW_PROCESS
      - EXISTING_PROCESS
 3
 4 op: and
 5 rules:
 6
      - op: is windows
 7
      - op: or
 8
        rules:
 9
          - case sensitive: false
10
           op: ends with
11
           path: event/FILE_PATH
           value: lazagne.exe
12
13
          - case sensitive: false
14
          op: ends with
15
           path: event/COMMAND_LINE
16
           value: all
17
          - case sensitive: false
18
            op: contains
            path: event/COMMAND_LINE
19
20
            value: lazagne
21
          - case sensitive: false
22
            op: is
23
            path: event/HASH
            value: 467e49f1f795c1b08245ae621c59cdf06df630fc1631dc0059da9a032858a486
```

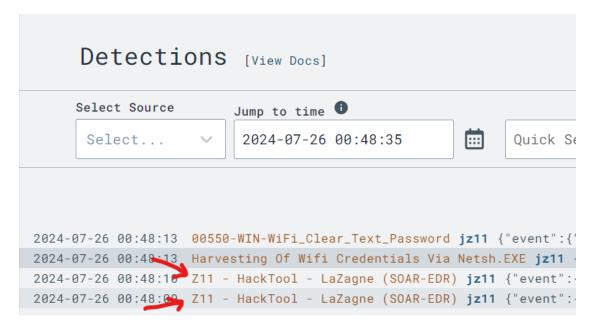
The *Respond* block is modified as shown below:

```
Respond 0
 1 - action: report
 2
      metadata:
 3
        author: Z11
        description: Detects LaZagne (SOAR-EDR Tool)
 4
 5
        level: medium
 6
        tags:
 7

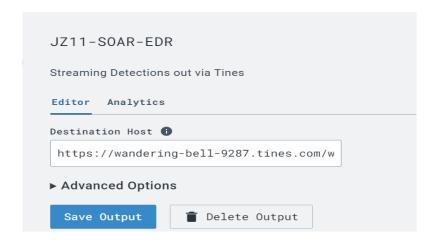
   attack.credential_access

      name: Z11 - HackTool - LaZagne (SOAR-EDR)
 8
```

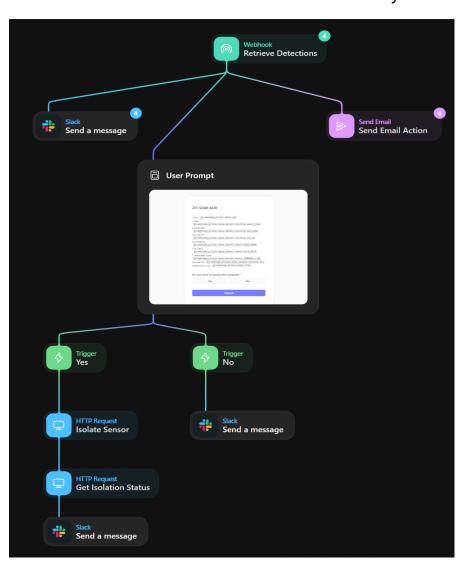
Then, I went to test this rule by first clearing out my detection list from LimaCharlie, and then run *LaZagne.exe* through Windows Powershell. Once I ran it, I went back to LimaCharlie to see the new detections. As seen below, at the bottom of the list, there's two detections obtained from the new rule.



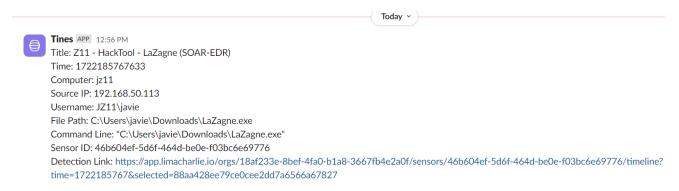
The next step will be linking up LimaCharlie with Tines. From LimaCharlie's dashboard, I went to Outputs > Add output > Detections > selected Tines, named the output as JZ11-SOAR-EDR and pasted the webhook URL from Tines to the **Destination Host** field, as seen below.



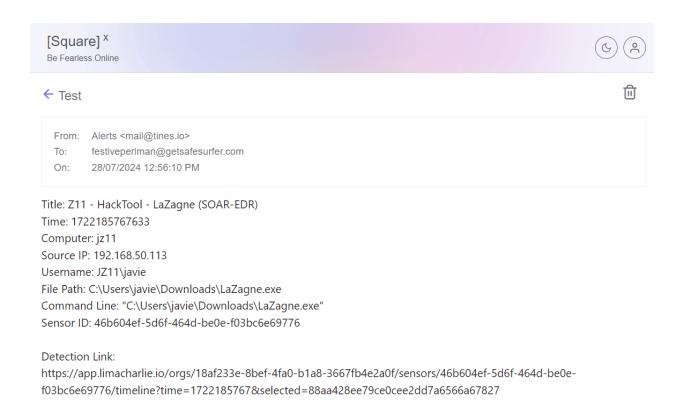
Then, I went to Tines to create my story (also known as *playbook*). It is important to mention that I have already created an account on Slack, which is a messaging application for businesses. On Slack, I created a new channel called *Alerts*. When I receive a detection from LimaCharlie on Tines, Tines will send a message over to Slack, specifically within the *Alerts* channel. As for the email message, I will be using a temporary email generated by Square X. I added the user prompt, which will ask the user if they want to isolate the computer. The following information will be sent to the email, Slack and the user prompt: title, *time*, *computer*, *source IP*, *username*, *file path*, *command line*, *sensor ID*, and the *detection link*. Below we can see how the story looks like on Tines.



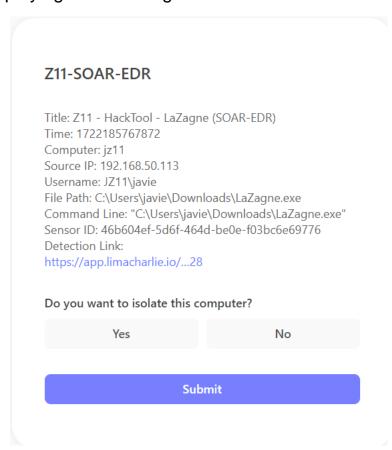
Now that everything is set up, I'll proceed and start generating events to test the workflow. I ran *LaZagne.exe* from my Windows Powershell, then checked Slack to see if I got an email. As seen in the picture below, we can see that I received an email alert with all the information I have previously listed.



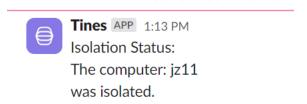
Then, I checked my disposable email inbox from Square X. Just like Slack, I received an email with all the information about the detection:



From the user prompt, I opened the most recent event and it opened a new tab displaying the following information:



I proceeded in clicking "Yes" first to see if I receive an isolation message on Slack. When I went to Slack, I received an email saying that the computer was isolated, as expected.



To further confirm if the computer was isolated. I went back to **LimaCharlie > Sensors > Overview** and, as seen below, the network access for the computer has been isolated.

