Magnet CTF:

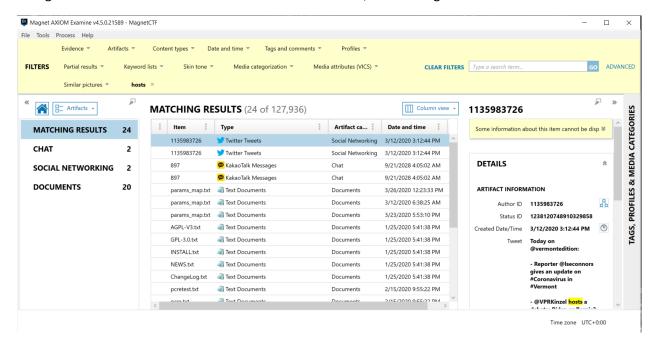
Question 1 Solution Walk-Through

1: What time was the file that maps names to IP's recently accessed?

Mobile Forensics is not my strongest area, and Android even less than iOS. Based on my limited experience the first thing I started with was Google ("GTS"). Based on the question I supposed that the artifact would be DNS related. Where on the device would that be set locally? To my delight I learned that on Android there is a local **hosts** file that is responsible for mapping IP's to DNS (what do you know just like Windows and Linux).



Doing a Global Search for hosts there are a number of hits, but nothing for the hosts file itself.



The first time I processed the Android image tar file I did it as

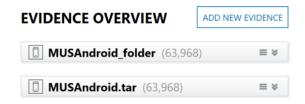
Mobile > Android > Load Evidence > Image

Using this format when I went to the file explorer view in Magnet, all that was visible was the tar file and I couldn't navigate the directory structure.

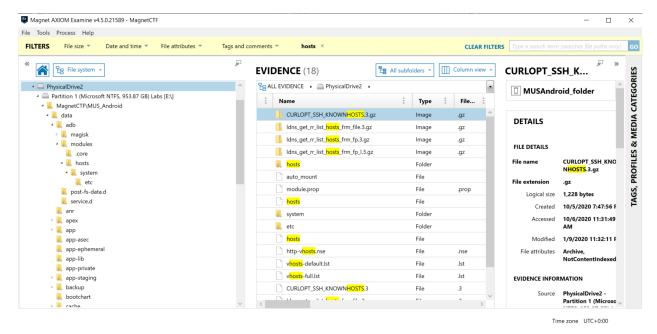
I extracted the tar file (using 7zip) and then re-processed the evidence as

Mobile > Android > Load Evidence > Files and Folders

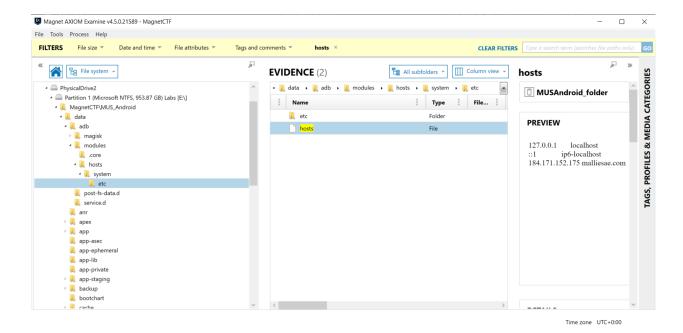
This yielded the same number of artifacts; however, it exposed the directory structure for browsing in **File System** view.



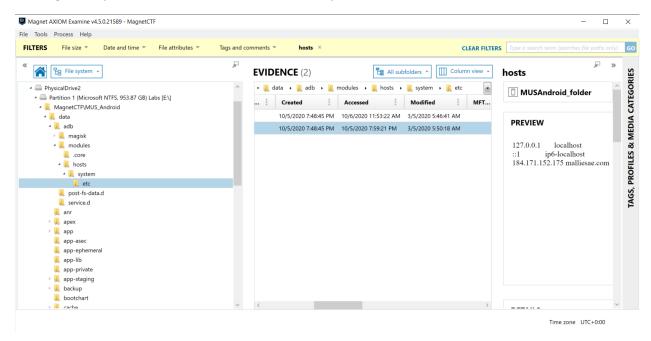
In the **File System** view we can now run a search for **hosts** (be sure to enable subdirectory results if you're not focusing on a particular path.



In this case the hosts file can be found at /data/adb/modules/hosts/system/etc



Looking at the preview we can see an additional entry for malliesae.com



With the hosts file selected, scrolling to the right reveals the Created, Accessed and Modified times for this file. Here we see that the file was modified **03/05/2020 05:50:18**.