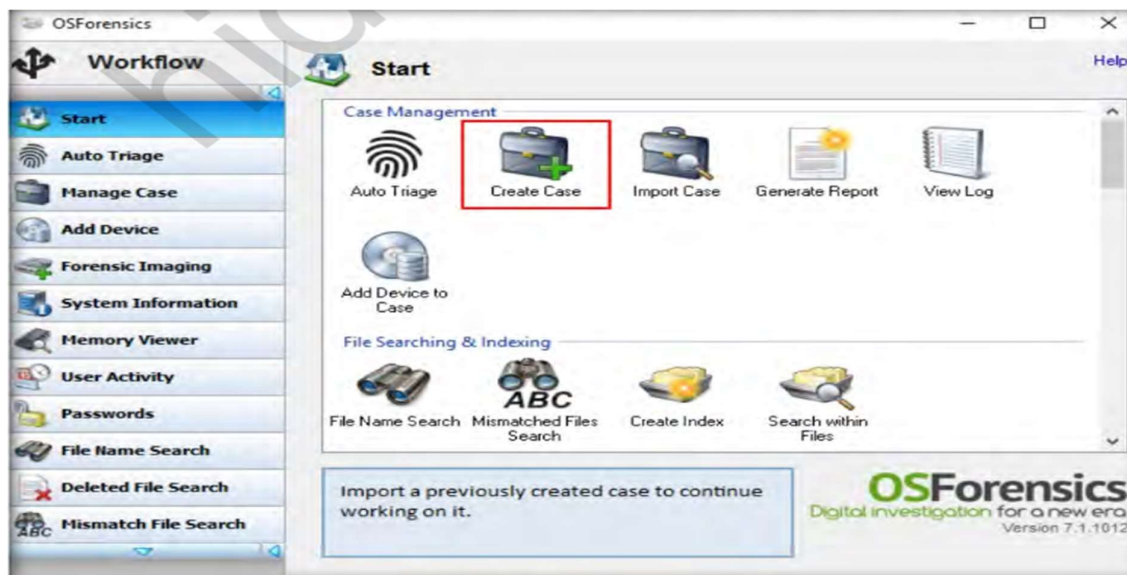


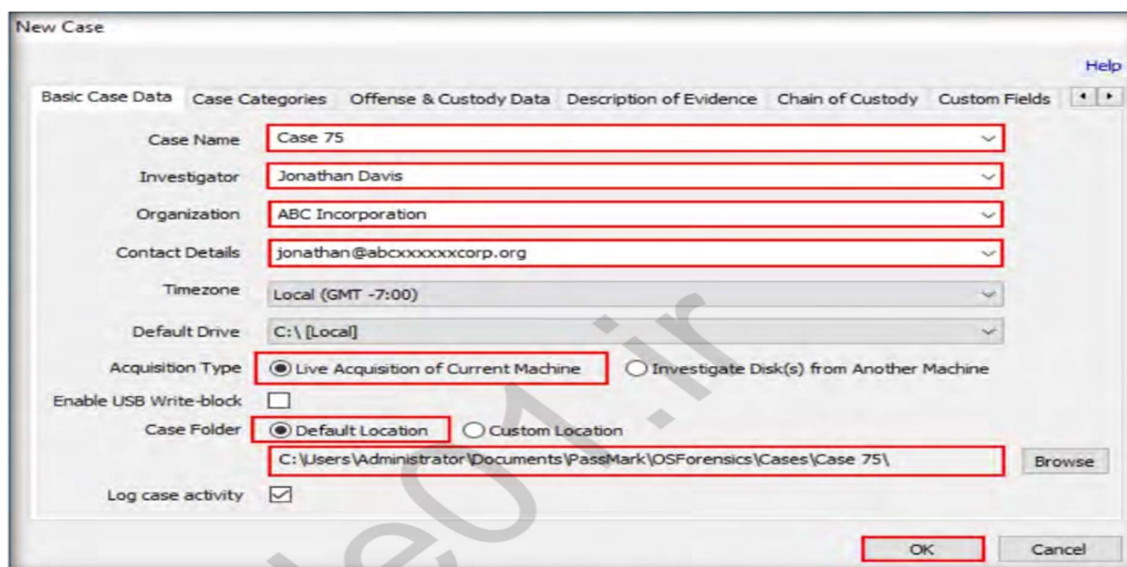
PRACTICAL NO. 02

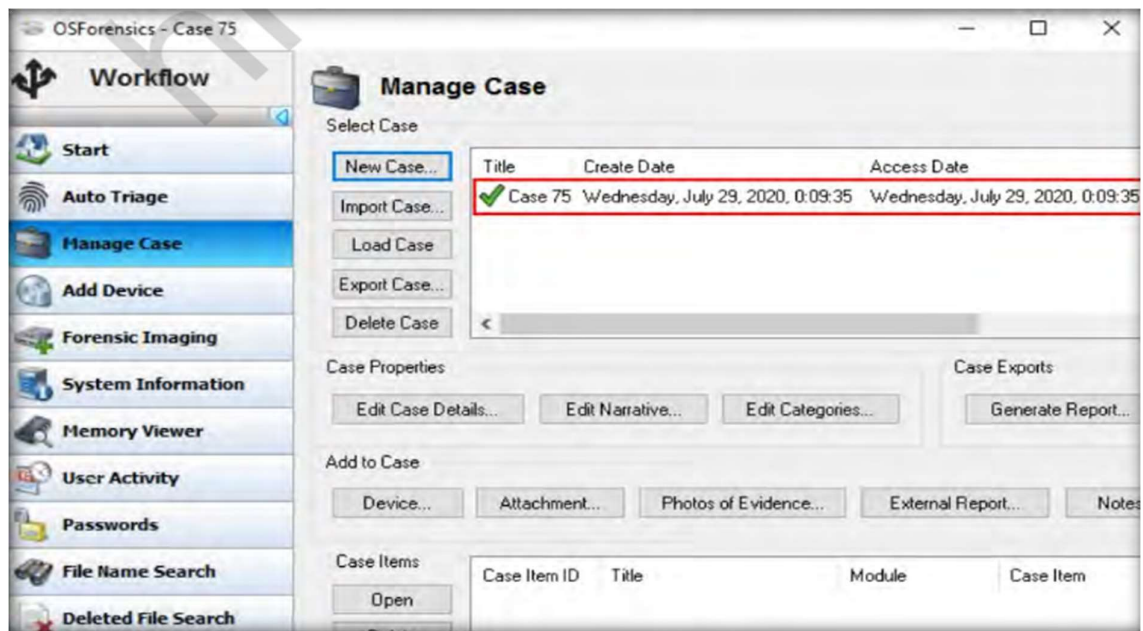
a. Explore Windows forensic tools (OSForensics)

Navigate to C:\CHFI-Tools\CHFIv10Module 06 Windows Forensics\Windows Forensics Tools\OS Forensics, double-click osf.exe to launch the setup. In the final step of installation, check the Launch OSForensics option and click Finish. OSForensics GUI appears, along with PassMark OSForensics pop-up. In the pop-up, click Continue Using Trial Version. Our first task is to create a case using this tool. Click the Create Case icon in the tool's main window to create a new case.

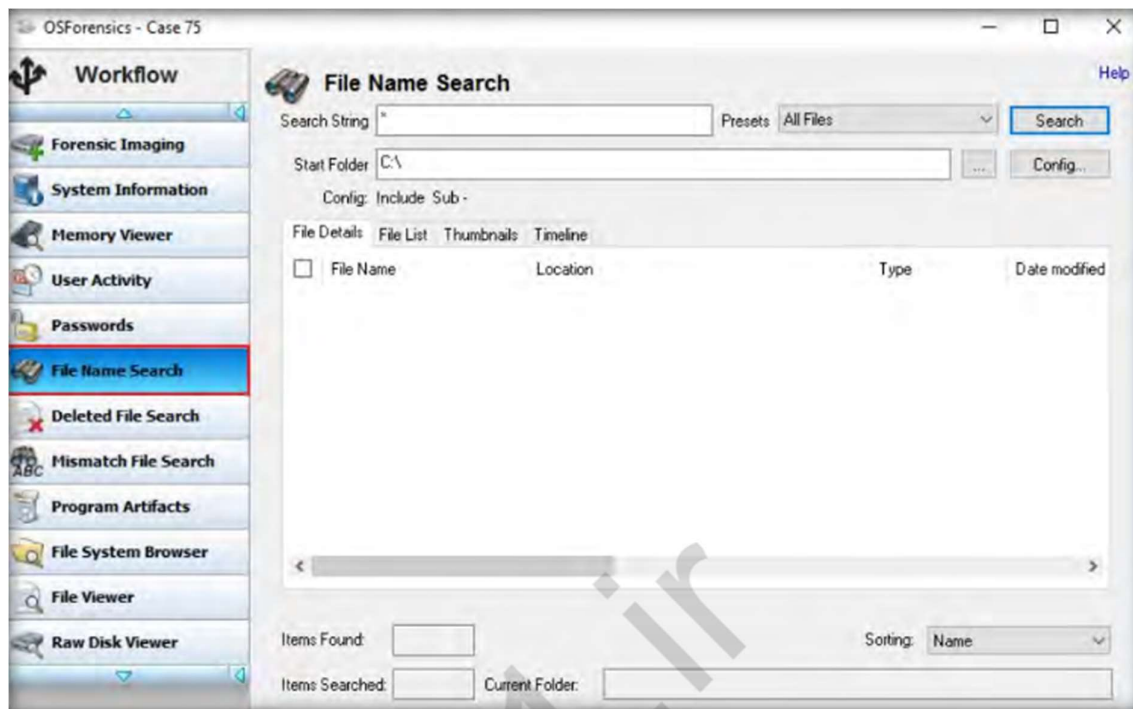


A New Case window appears; fill out the required fields in the window. Ensure that you select the radio button for the Live Acquisition of Current Machine option in the Acquisition Type category. You may choose to save the new case folder either in Default or Custom locations. Click OK

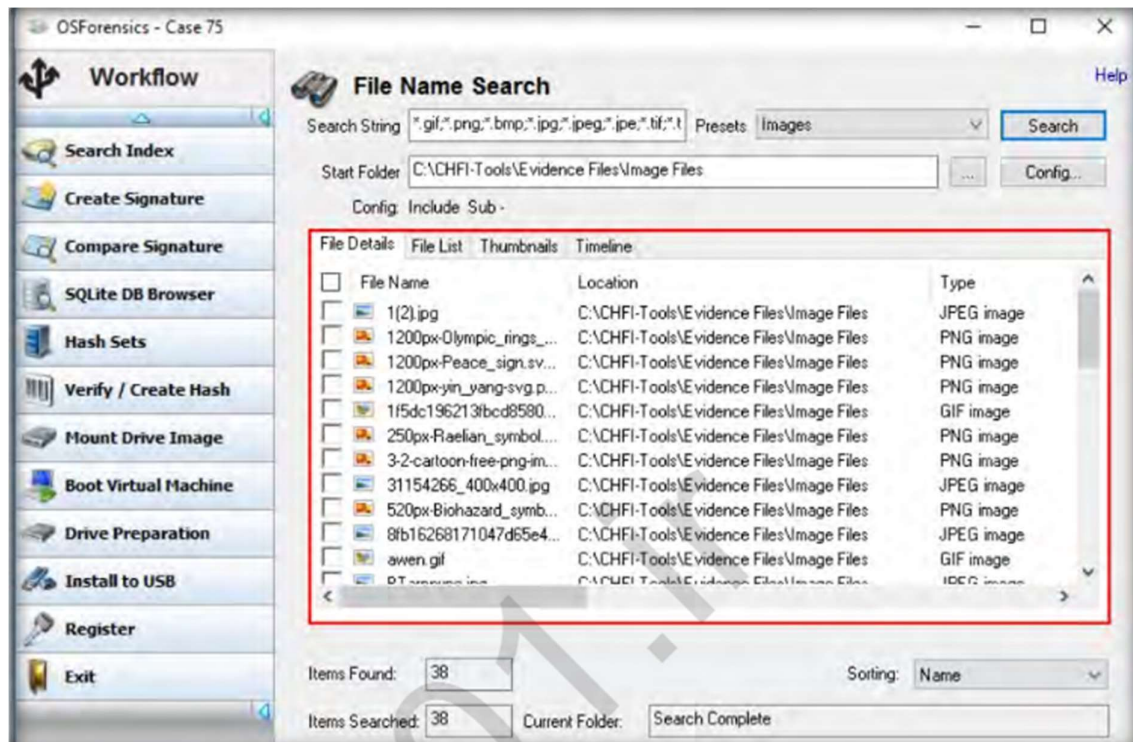
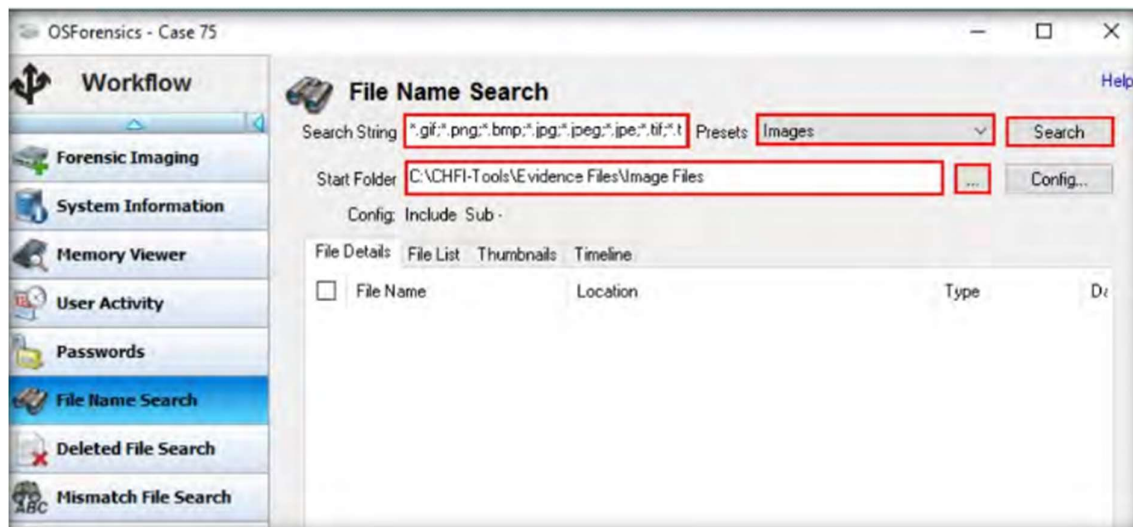




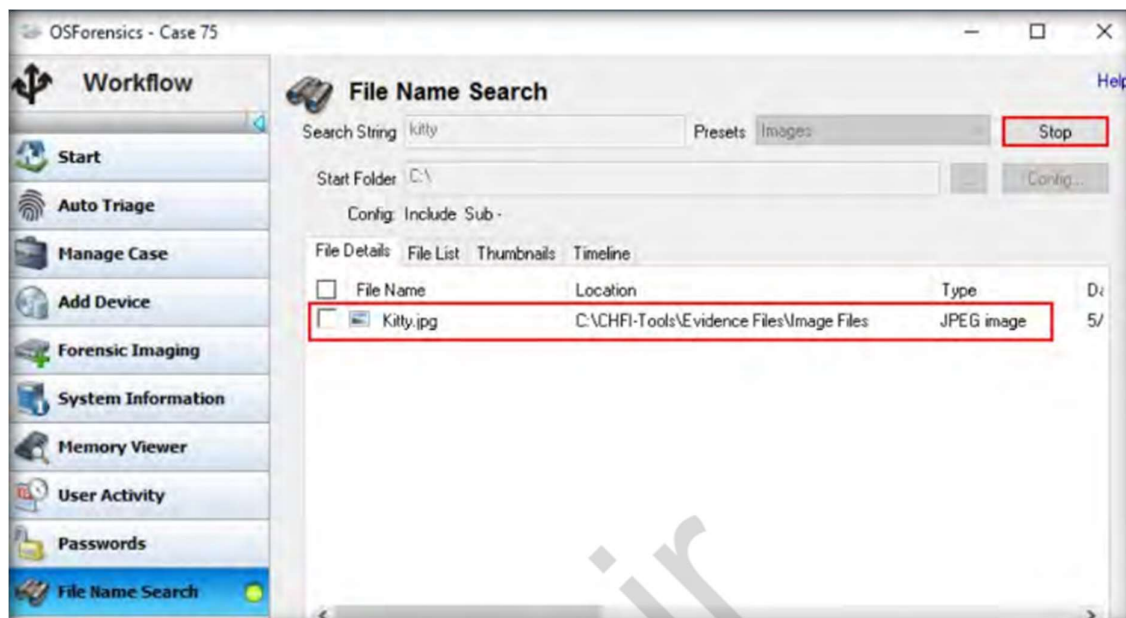
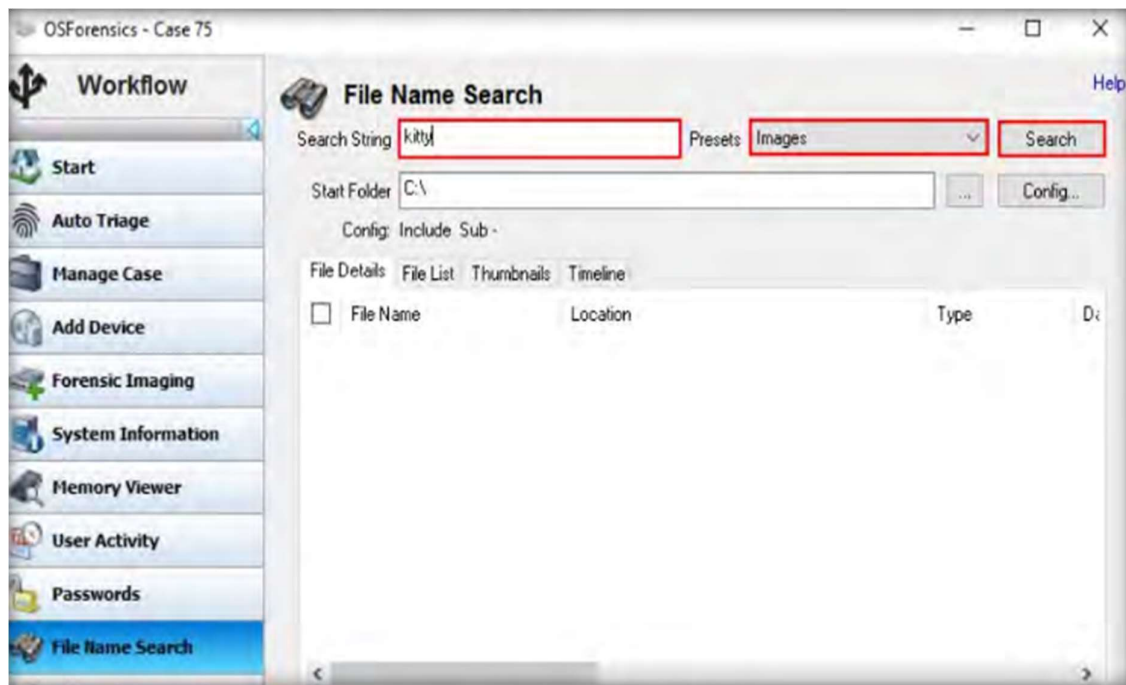
The OSForensics tool can help investigators in searching and locating files on a system. To start searching for files, click File Name Search in the left pane of the window.



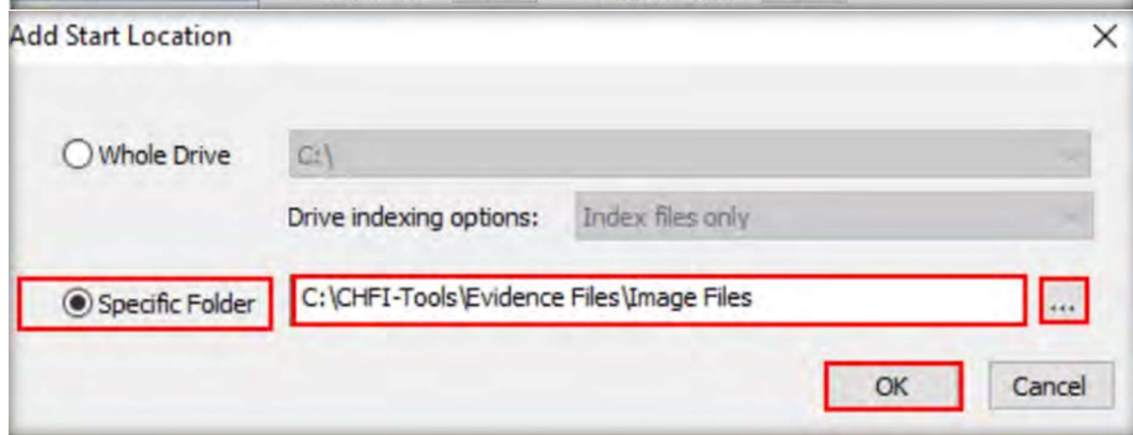
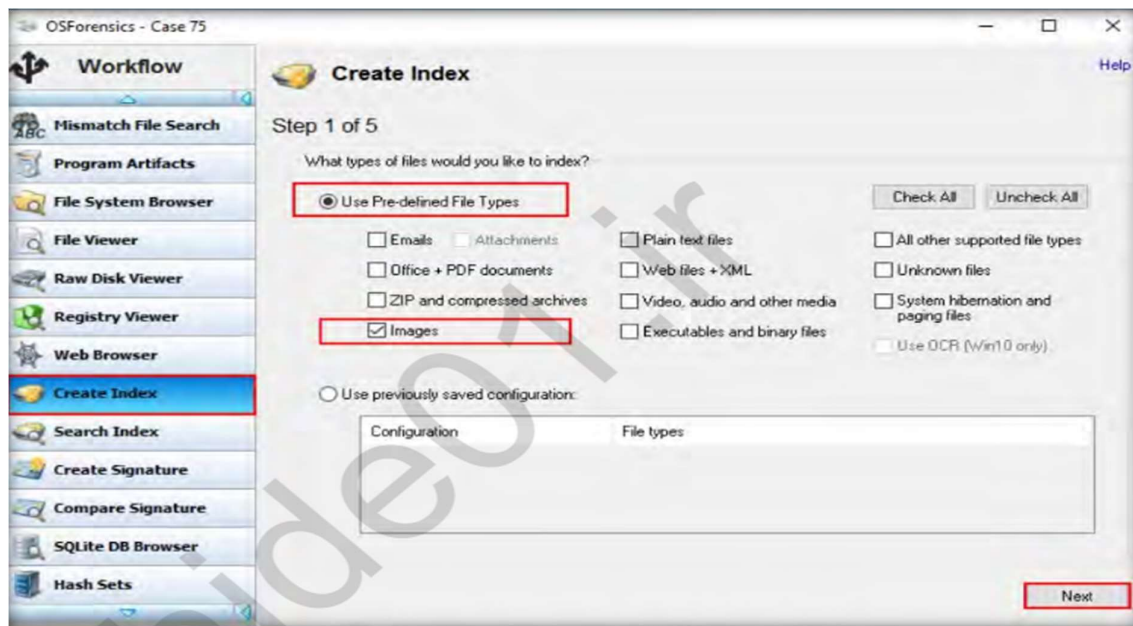
In the Start Folder field, specify the path to search for image files by clicking the ellipsis button and choosing the location (here, we are specifying the location C:\CHFI-Tools\EvidenceFiles\Image Files to search for images in it). Then, click the Search button.

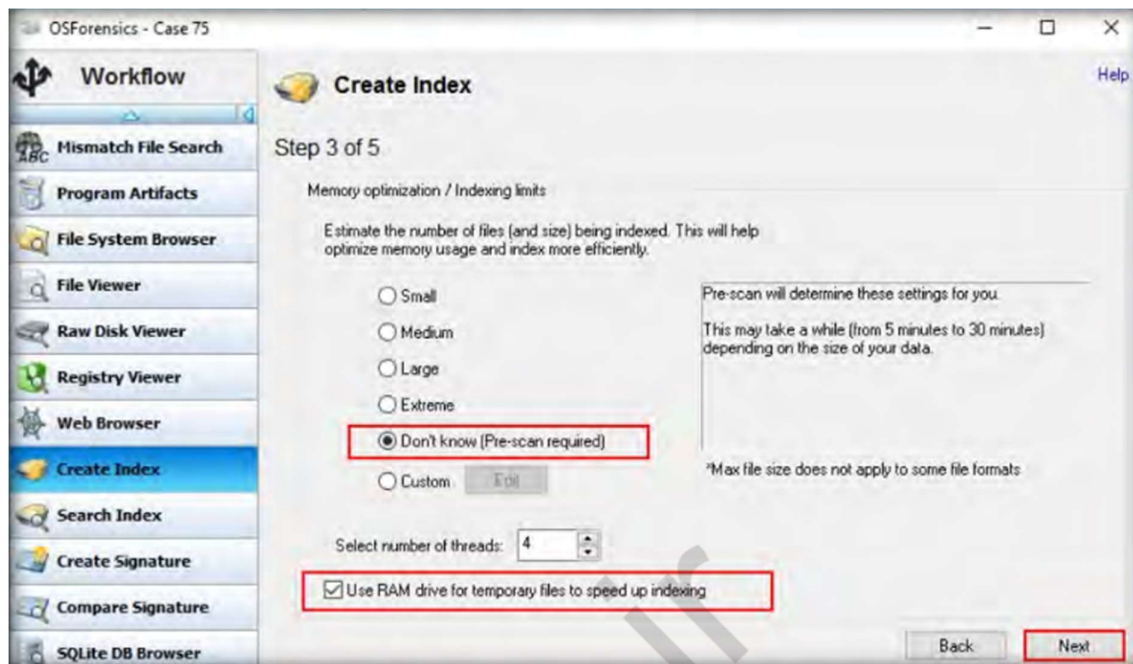
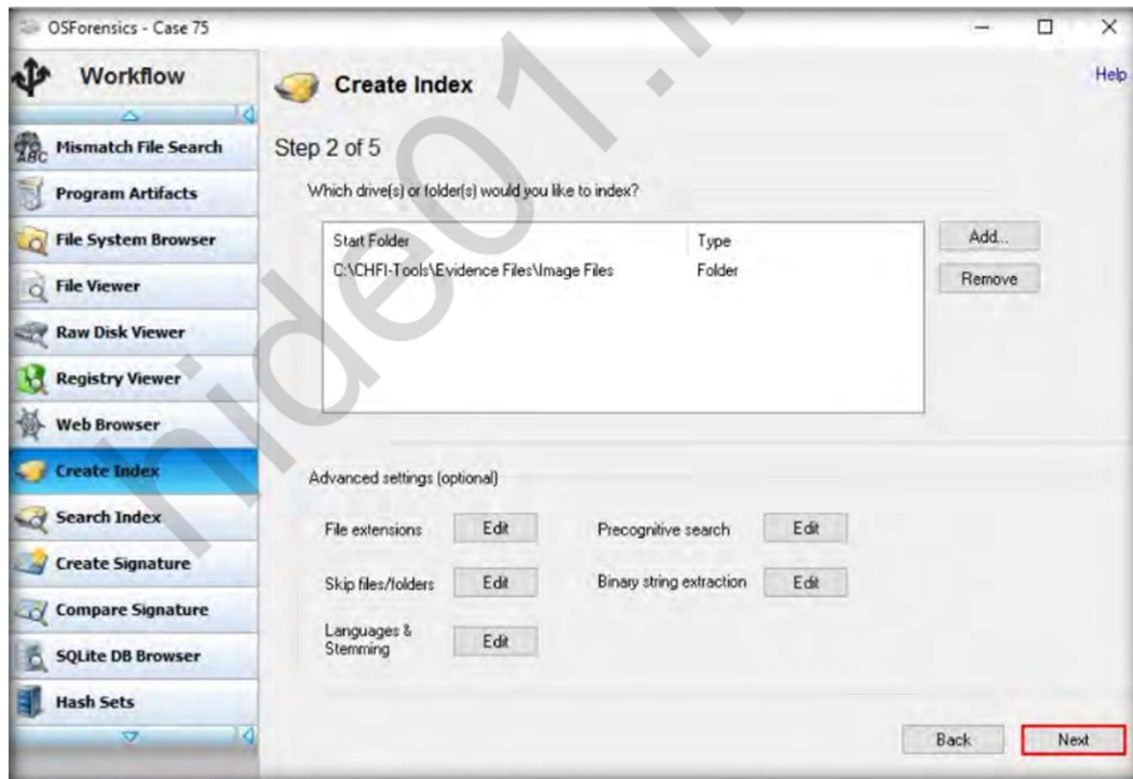


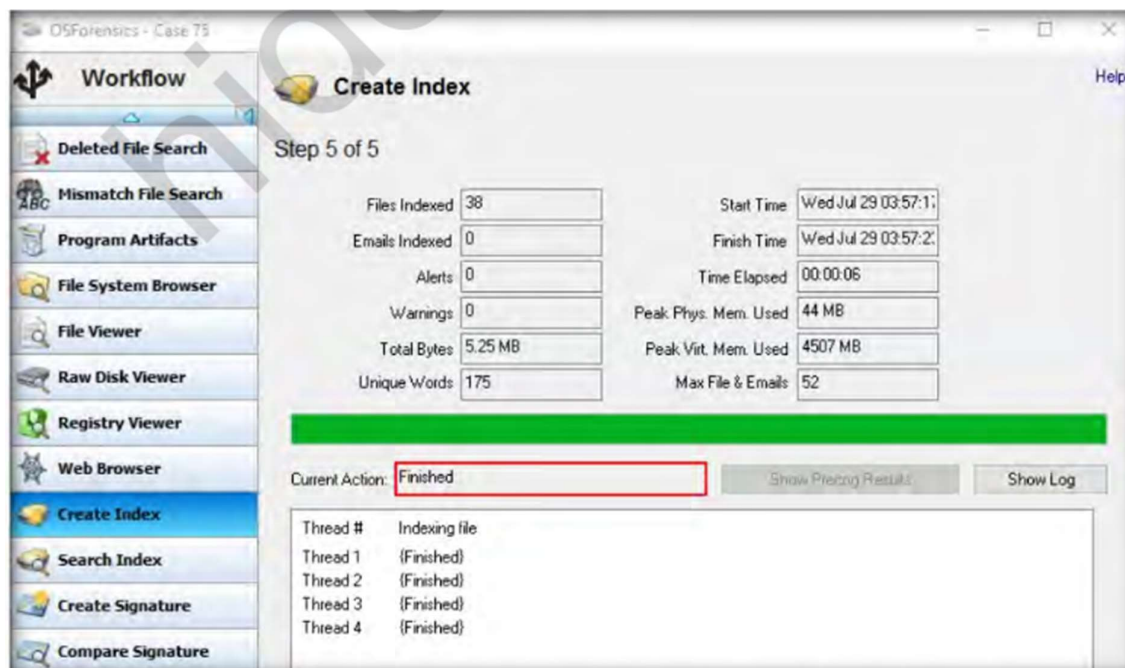
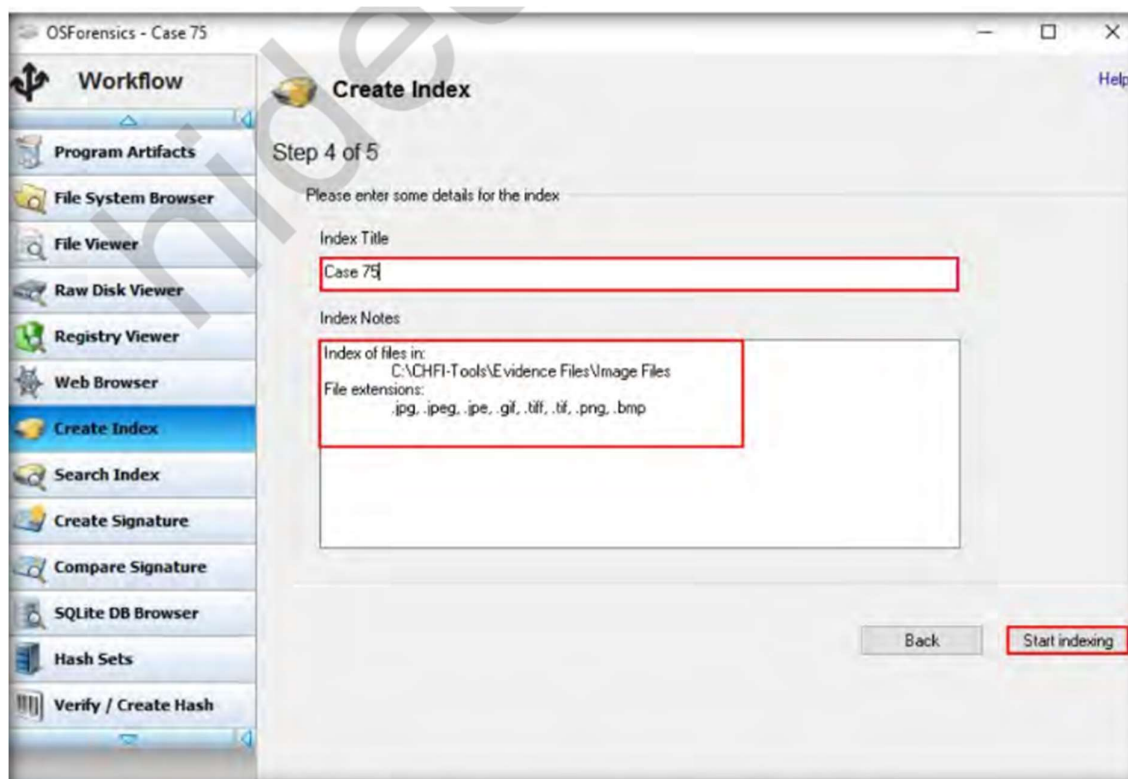
Alternatively, if you wish to search only for a single image on the entire system, select Images from the Pre-sets drop-down menu, enter the name of the desired image file in the Search String field, and then click Search, as shown in the screenshot below. Here, we are searching for the JPEG image file named Kitty.



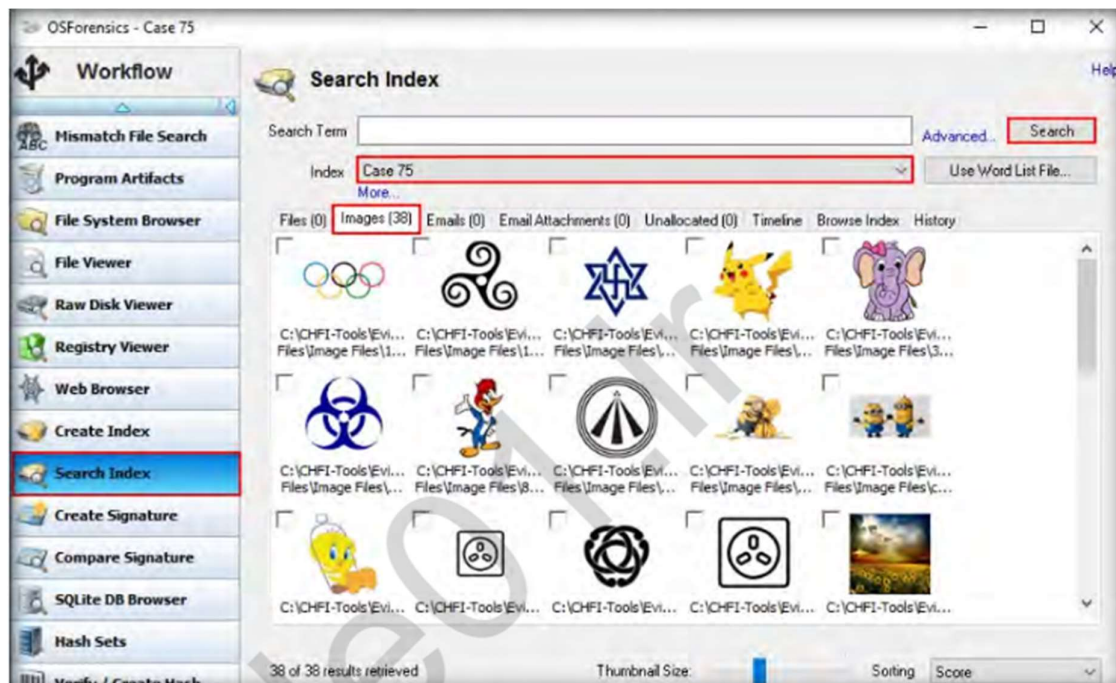
The Create Index section appears in the right pane. In this section, select the Use Pre-defined File Types option for creating the index and check the required options listed under it for selecting the file types that you wish to index (here, we have selected the Images option). Then, click Next.



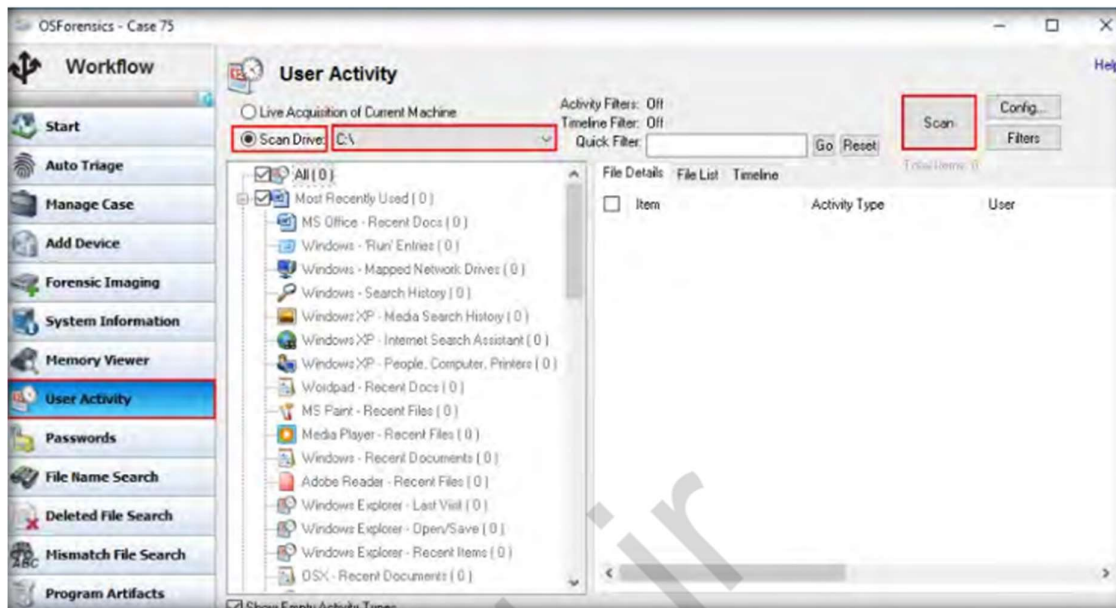


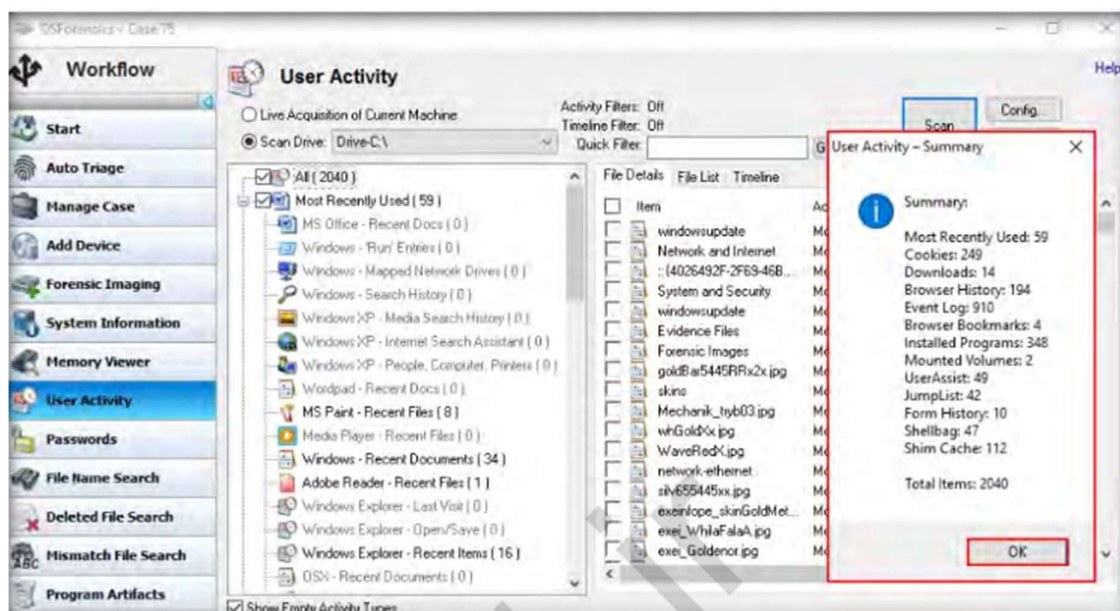
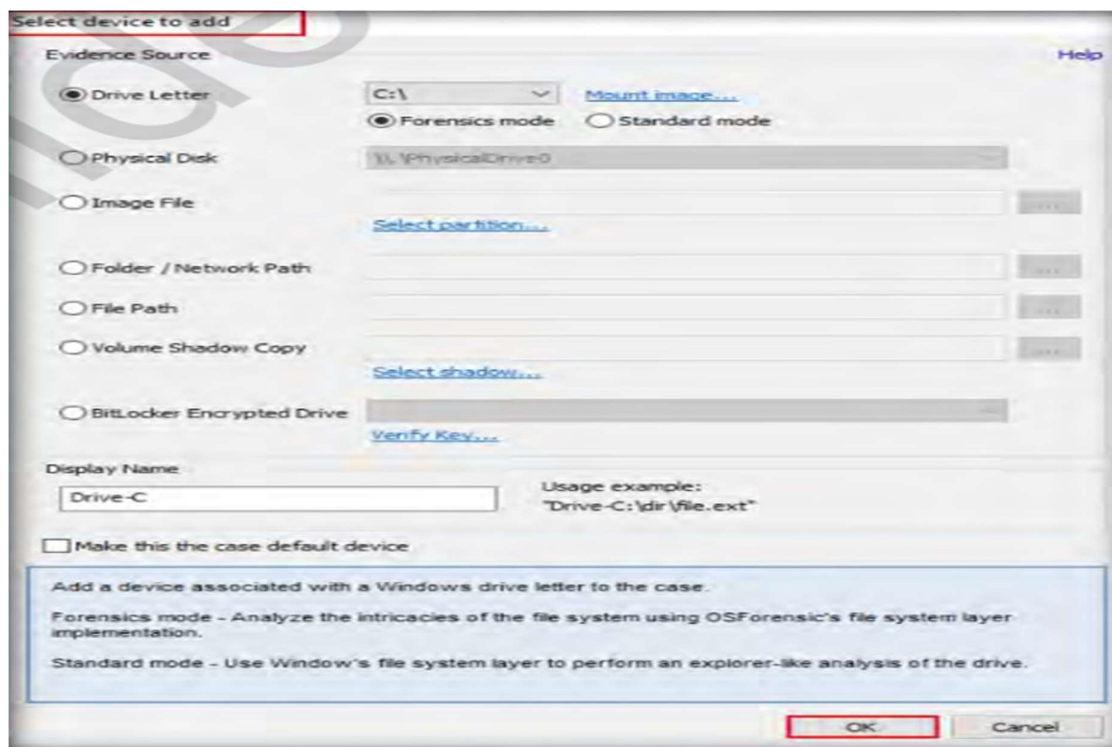


We will now search the indexed files. To search for the indexed files, select Search Index from the left pane of the tool window. The Search Index section now appears in the tool window. The index field at the top displays the name of the case we created (i.e., Case 75). Click Search. The tool will load the image files that you have indexed under the Images tab.

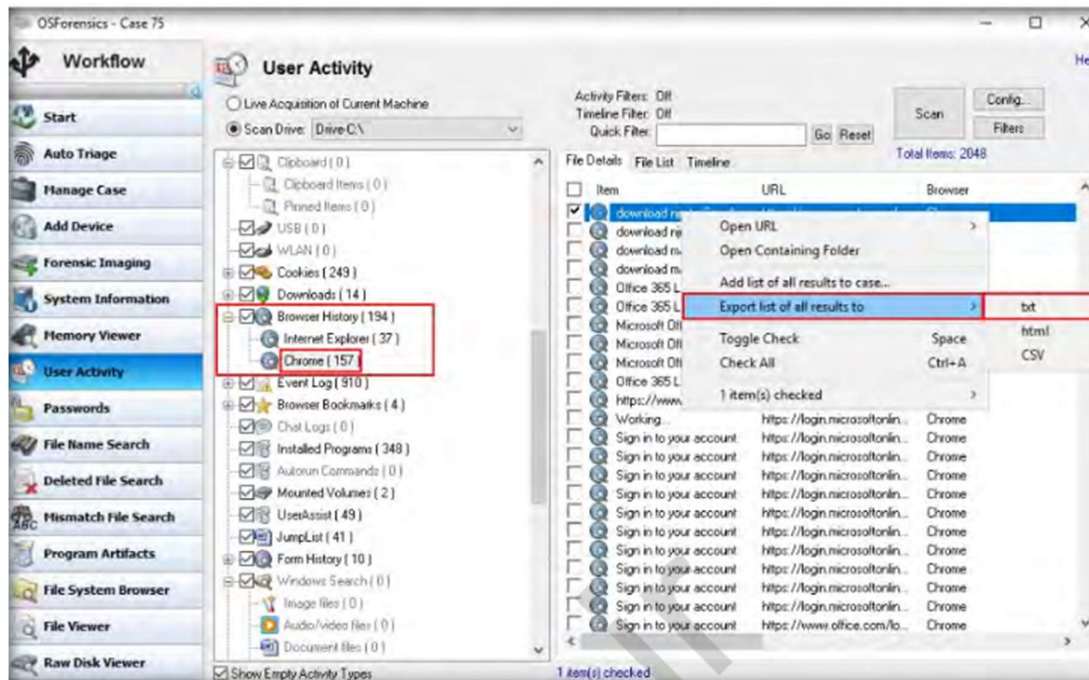


Click User Activity in the left pane to scan for evidence such as browsed websites, USB drives, recent downloads and wireless networks.

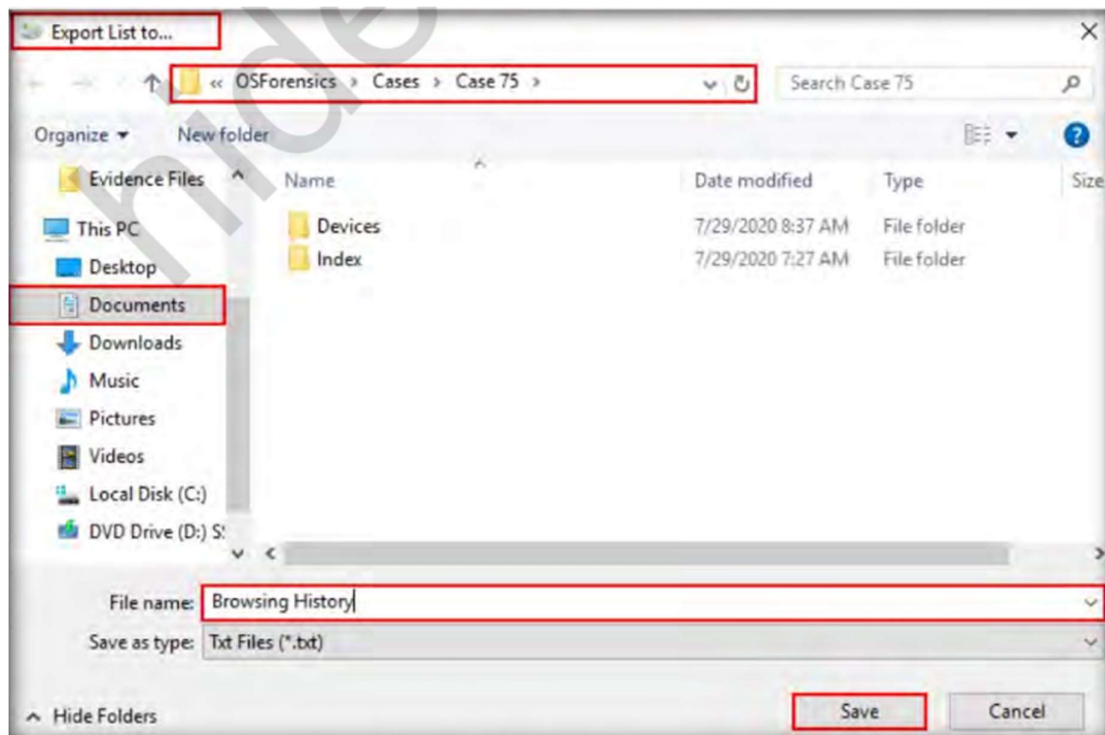




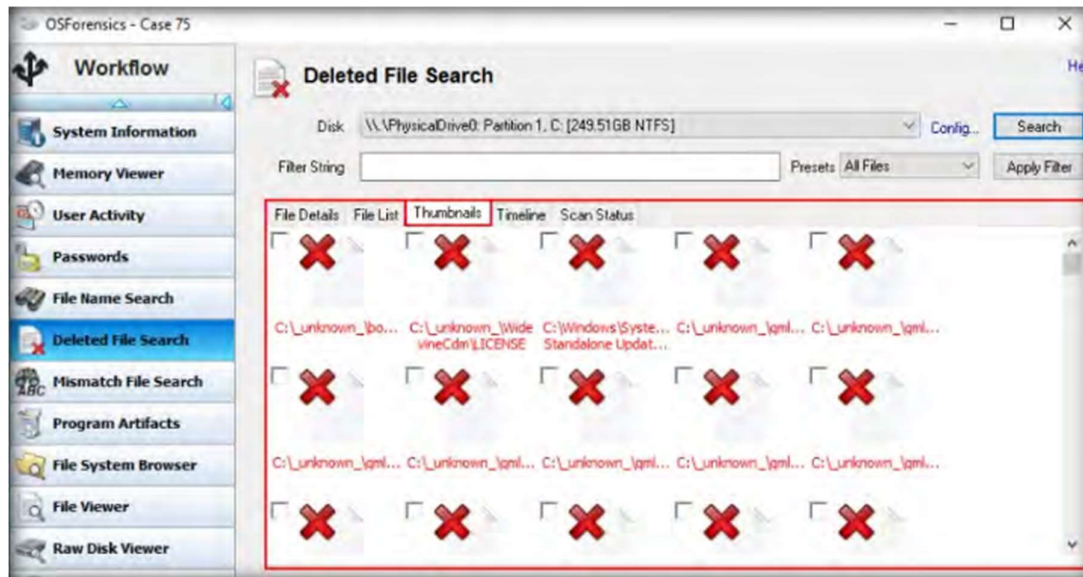
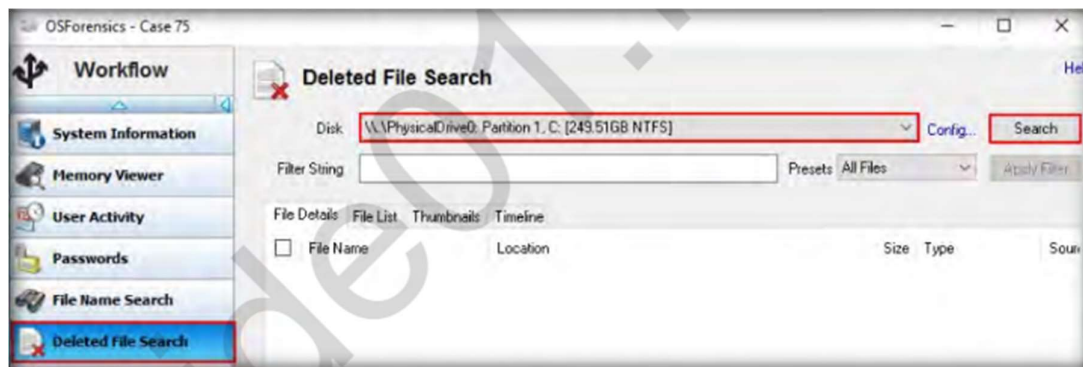
If you wish to save any of the above user-activity information on your system, such as Browser History, then scroll down the items list in the left pane below the Scan Drive option and expand the Browser History node. Select the browser for which you wish to retrieve the history (Here, we are selecting Chrome). The browser history pertaining to this browser will be displayed in the right pane of the tool window.



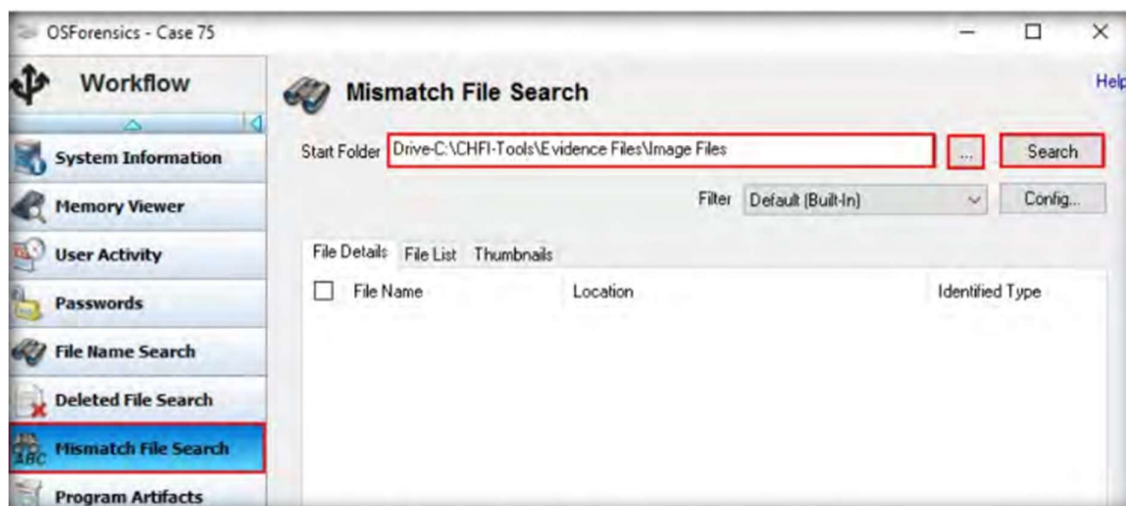
An Export List to. Window will appear. Navigate to C:\Users\Administrator\Documents\PassMark\OSForensics\Cases\Case 75, name the file (here, we are naming it as Browsing History), and click Save to export the browsing history.

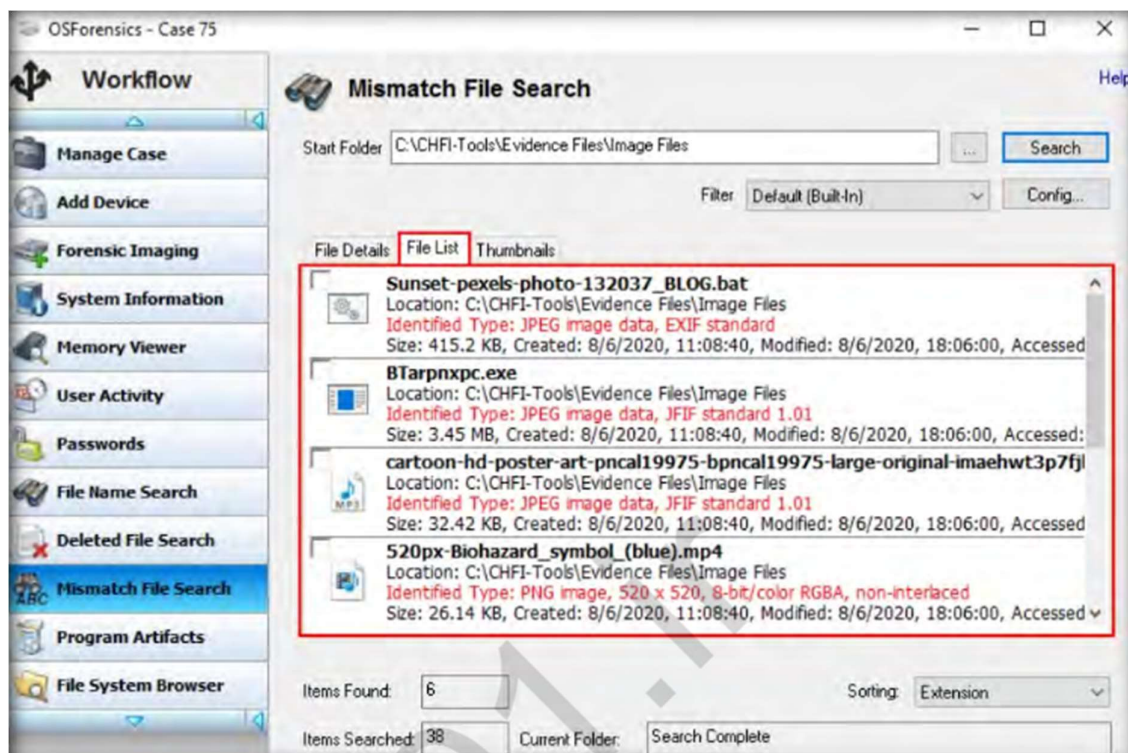


To recover deleted files from the file system, click Deleted File Search in the left pane, select a disk on which you wish to perform the deleted file search from the Disk drop-down menu, and click the search button.

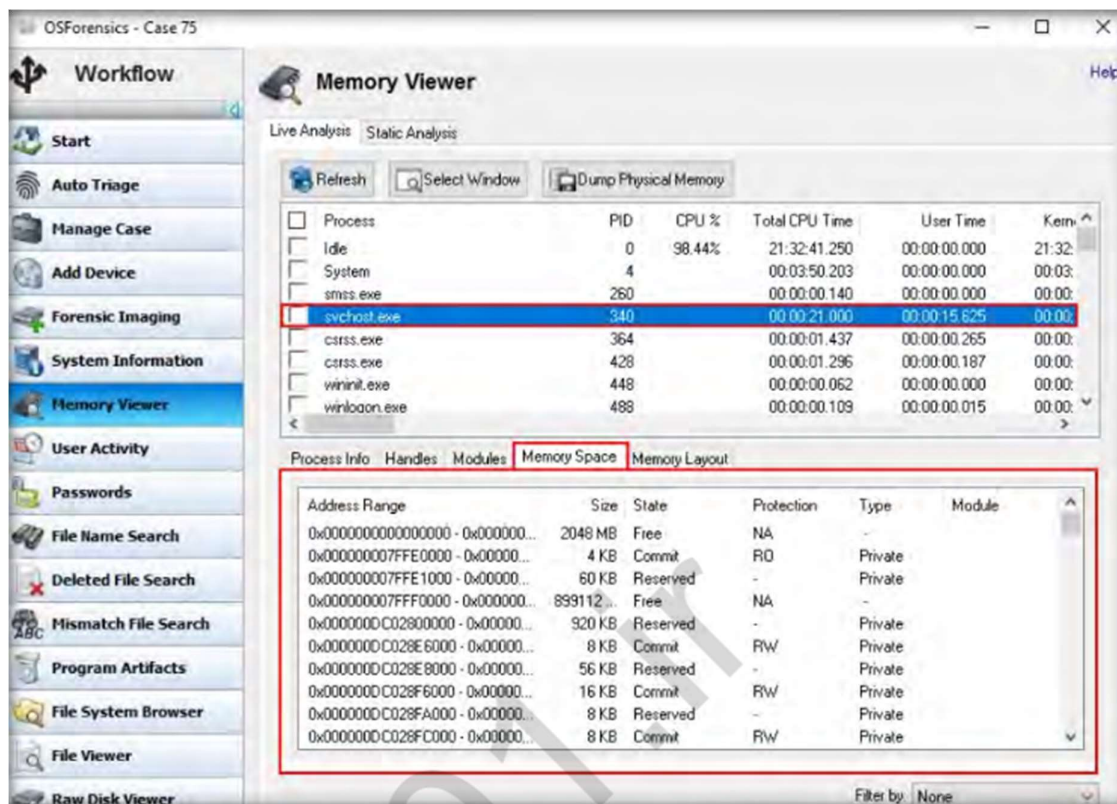


To locate files having contents that do not match the file extensions, click Mismatch File Search in the left pane of the tool window. The tool will display the Mismatch File Search section in the right pane, as shown in the screenshot:

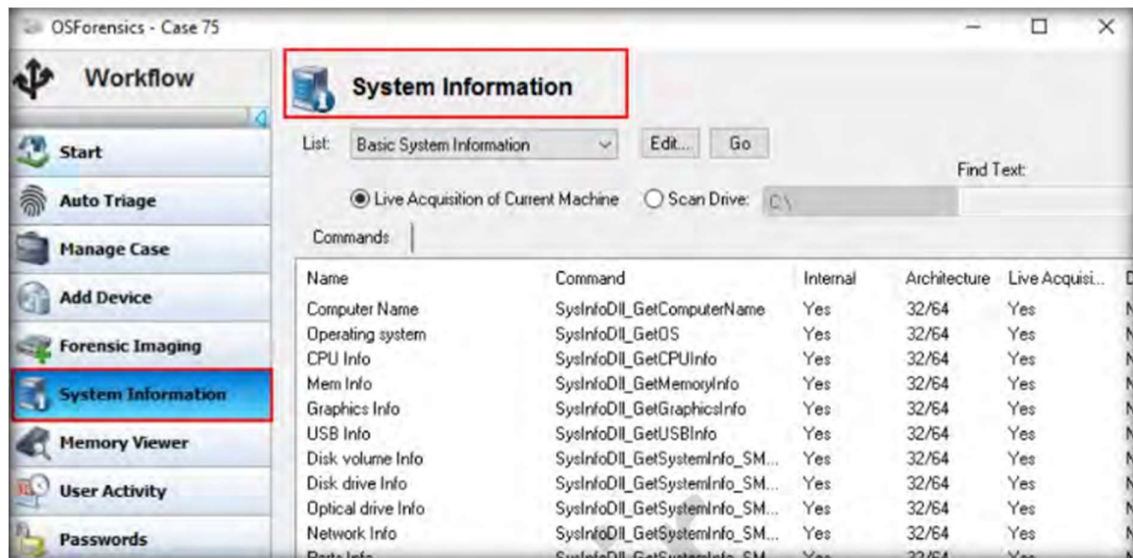




To view the processes running on the system, click Memory Viewer



To retrieve detailed information about the core components of the system, click System Information. The tool will display the System Information section.



In this manner, you can perform investigation on a system or the folders and partitions within the system to gather data of interest to the forensic investigation.