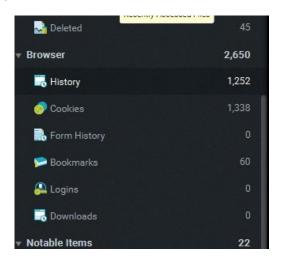


Misuse of Company Time

When discussing misuse of the company's time, we are referring to using the company's computer for personal uses during work hours. Some examples of this include the employee using the company's internet for their personal use, or the user using the company's computer to work on another business that the user has outside of his normal job. In these examples, work hours are being used for personal tasks.

There are a number of different scenarios where work time can used for personal use. Each of these scenarios include 'time theft', which is grounds for disciplinary action, and therefore an investigation may be justified. However, when investigating such events, different scenarios would require different types of analysis, and you would be likely analysing different artifacts. We cannot cover all of these scenarios in this post, so we have provide one example. In this example we have suspicion that a user is using the companies computer and internet services for his own purposes during work time. Lets presume that you have a forensic copy of the user's system, and you have indexed the forensic copy in W4.

 In this example we are investigating internet activity, so we have selected the History category on the left hand panel. This shows all internet history on the system.



Searching all of the internet history for every day can be overwhelming. In this type of investigation, one approach would be to break the activity down into one day at a time. There may be some other investigative information available that can help with filtering. For example, it may be known that the user only did personal browsing in the afternoon when other colleagues were out of the office. That type of information can further help you to narrow down timings, and focus of specific hours.

In this example we have been told that the user has been observed to browse the internet when he gets back from lunch at around 1pm. With that information in mind, we have set the timeline for a specific day, and started our time frame from 1pm.



2. The settings above provides us with all of the internet history for this time period. An important aspect to check, is that this data belongs to the user under investigation. If a system is shared by different users, you should tag only the activity by the user in question. That way you can search on that tag to only show their activity.

We have some great information about the user's internet activity in the table view. Immediately we can see the following:

- That the user ran a Google search for the term ebay.
- From there, they entered the ebay site and looked in specific categories.
- The information in the **Title** field shows us that the user was looking at TVs, specifically 49" LG TVs.
- The Visited column shows that the user browsed for TVs from around 1:40pm to around 2:10pm.

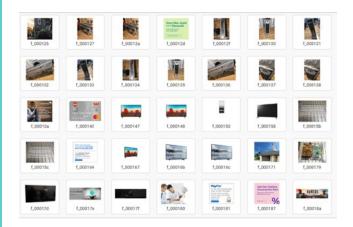
- Then there was a break, and more browsing for TVs commenced from around 3:22pm.
- We can see the duration of how long the webpage was open on the system. Note that this does not mean the user was actively browsing the page. For example, the page could have been opened, then the user may have gone out for some time.
- We can see the visit count. This represents how many times that particular page, or items on that page were clicked on.
- We can also see the URL for the visited page. This allows us to copy the link and us a browser to view the page that the user was viewing.

Computer	User	Title	Visited	Duration	Visit Count	URL
HPLAPTOP	Jon	ebay - Google Search	Mar 4, 2019 1:29:46 PM	0	1	https://www.google.com/search/igreba
HPLAPTOP	Jon		Mar 4, 2019 1:29:46 PM		1	https://www.google.com/search?q=eba
HPLAPTOP	Jon	Electronics, Cars, Fashior, Collectibles,	Mar 4, 2019 1:39:54 PM	45	1	https://www.ebay.com/
HPLAPTOP	Jon	tr ellay	Mar 4, 2019 1:40:38 PM	0	2	https://www.ebay.com/sch/i.html?_fro.
HPLAPTOP	Jon	tv (elloy	Mar 4, 2019 1:40:40 PM	0	2	https://www.obay.com/sch/i.html?_fro.
HPLAPTOP	Jon		Mar 4, 2019 1:40:40 PM		2	https://www.ebsy.com/sch/Lhtml?_fro
HP-LAPTOP	Jon	tr elley	Mar 4, 2019 1:41:55 PM	0	12	https://www.ebay.com/sch/i.html?_fro
HPLAPTOP	Jon	tv eBay	Mar 4, 2019 1:41:57 PM	0	12	https://www.ebay.com/sch/Lhtml7_fro
HP-LAPTOP	Jon	br ettay	Mar 4, 2019 1.41,57 PM	100	12	https://www.ebay.com/sch/t.html?_fro.
HPLAPTOP	Jon	tv i eBay	Mar 4, 2019 1:42:16 PM	0	22	https://www.ebay.com/sch/uhtml?_fro.
HP-LAPTOP	Jon	tv i ellay	Mar 4, 2019 1:42 16 PM	0	22	https://www.ebay.com/sch/i.html?_fro.
HP4.APTOP	Jon	tv ellay	Mar 4, 2019 1:42:16 PM	151	22	https://www.ebay.com/sch/i.html?_fro.
HPLAPTOP	Jon	LG 49" 4K UHD 120Hz HDR Smart 2160	Mar 4, 2019 1:49:22 PM	1,170	1	https://www.ebay.com/itm/LG-49-4K-U.
HPLAPTOP	Jon	LG 49" Smart 4K HDR LED HDTV w/ Tru	Mar 4, 2019 1:44:08 PM	1,129	3	https://www.obay.com/itm/LG-49-Smar
HPLAPTOP	Jon	LC 45" Smart 4K HDR LED HDTV w/ Tru	Mar 4, 2019 1:44:00 PM	0	3	https://www.ebay.com/itm/L0-49-0mor.
HP-LAPTOP	Jon	tv etley	Mar 4, 2019 1:44:40 PM	0	12	https://www.ebay.com/sch/i.html?_fro
HPLAPTOP	Jon	tr eBay	Mar 4, 2019 1:44.44 PM	0	12	https://www.ebay.com/sch/Lhtml7_fro.
HP-LAPTOP	Jon	tr effay	Mar 4, 2019 1,44,44 PM	99	12	https://www.ebsy.com/sch/Lhtml?_frq.
HPLAPTOP	Jon	LG 49" Smart 4K HDR LED HDTV w/ Tru	Mar 4, 2019 1:44:47 PM	0	3	https://www.ebay.com/itm/LG-49-Smar
HPLAPTOP	Jon	tv i elitay	Mar 4, 2019 1:46:23 PM	0	12	https://www.ebay.com/sch/i.html?_fro.
неи детпе	Jon	ty i elliny	Mar 4 2019 1-46-25 PM	0	12	https://www.ehav.com/schili.html? fin

3. Another area of interest is the Bookmarks category. We can look at this category for more user activity within the time frame. This category shows if any bookmarks were created by the user. In this case, we can see that 10 bookmarks were created by the user. The Name column shows us a descriptive name for the bookmark, along with the site that was being viewed. We can also see that the bookmarks were placed into a folder named TVs. This indicates that the user created a custom folder to capture the pages which he was viewing, so that he could quickly reference them later.

Computer	User	Name	Folder Name	Created	URI,
HPLAPTOP	Jon	L6 49" 4K UHD 120Hz HDR Smart 2160p ULTRA HD LED TV 49UJ6000 - NEW IN BOXE .	TVs	Mar 4, 2019 1.43.32 PM	https://www.ebay.com/ltn
HP-LAFTOP	Jon	LG 49" Smart 4K HDR LED HDTY w/TruMotion 120, 3 HDM / 2 USB Ports & WebOS 3	TVs	Mar 4, 2019 1:44:20 PM	https://www.ebay.com/itn
HPLAFTOP	Jon	Brand New LO LJ4901. Sealed 49" LED TV. eBay	TVs	Mar 4, 2019 2:02:22 PM	https://www.ebay.com/its
HPLAFTOP	Jon	LG 49' Smart 4K HDR LED HDTV w/ TruMotion 120, 3 HDMI / 2 USB Ports & WebOS 3	TVo	Mar 4, 2019 2:02:42 PM	https://www.ebay.com/itn
HPLAFTOP	Jon	L6 499K8000PUA 45" Class 4K HDR Smart LED At Super Ultra HD w/ThinQ TV eBay	TVs	Mar 4, 2019 2:04:59 PM	https://www.ebay.com/itn
HPLAFTOP	Jon	LG 49" Class 4K (2160) HDR Smart LED UHD TV:w/M ThinQ - 49UK6S00FUE 71919262	TVs	Mar 4, 2019 2:07:08 PM	https://www.ebay.com/itn
HPLAFTOP	Jon	NEW SAMSUNG 50' LED 2100p Smart 4K Ultra HD TV SEALED BOX 55 Inch LPORADE	TVs	Mar 4, 2019 2:09:24 PM	https://www.ebay.com/itn
HPILAPTOP	Jon	LG 49 Inch 4k HDR Smart At ThinQ LED UHD TV 719192621275 eBay	TVs	Mar 4, 2019 3:21:50 PM	https://www.ebay.com/itn
HPLAFTOP	Jon	LG Class FHD 49LJ5100 49" 1080p LED HDTY Full HD TY Flat Screen 60Hz Dynamic 7	TVs	Mar 4, 2019 3:25:45 PM	https://www.ebay.com/itr
HPLAFTOP	Joe	LG 49" Class 4X (2160) HDR Swart LED UHD TV 495k8000PUA 710192618268 (48lay	TVs	May 4, 2019 3:20:14 PM	https://www.ebay.com/ite

4. Another artefact that you could look at is what images were downloaded to the system when the user was browsing the internet. The images from the internet cache below show a number of TVs. This is more evidence to show what the user was browsing at that time



In summary, with W4 you can investigate a specific user's internet activity with little effort. W4 categorises the different artefacts so that they can be searched, filtered and displayed to highlight the most pertinent evidence to support the allegations of the case.



