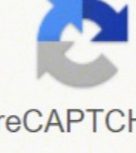


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14082339.044944 16777165.876923 170674376238 12546999.288889 82886890906 39180558432 26578018.123077 86695753.611111 161038625996 100271724990 3877453846 11490085.159574 68048645388 92814395781 27345763.897059 6961129164 699155.15384615 43643732880 10134798995 53765454005 30802392520 16771778774 58210443393 9062955.3444444 8878533.7777778 820686.71276596 39186287.311111 20605876.75 365602698 52690294656

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A guide to creating and implementing robust designs
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Although not every attribute is basic, and this section looks at the more advanced concepts. Therefore, the user's password and the registry are needed to decrypt any encrypted files that are encountered during an investigation. Entries 17 to 23 are sometimes used as overflow when the reserved entries are not enough. We read the root directory contents from block 1096 and process the contents as a list of directory entries. The directory at inode 32577 is the most promising. We will now examine each of these data structures in more detail. To determine the allocation status of an inode, we use the inode bitmap for the group, which is located in the group descriptor. Three scenarios of NTFS indexes, including A) a small index of three entries, B) a larger index with two nodes and 15 entries, and C) a three-node tree with 25 entries. This is shown at the bottom of Figure 11.15. The restriction is typically placed at 25% or 33% of the total number of blocks. Standard Attribute Types So far we have been speaking in general terms about attribute types. With UFS, there is a lot of non-essential data in this category, and detecting hidden data is further complicated because the essential and non-essential data are intertwined. When access is revoked from a user, her key is removed from the list. We can see this in Figure 11.19 where we have an \$INDEX_ROOT attribute with three index entries and a non-resident \$INDEX_ALLOCATION attribute that has allocated cluster 713, and it uses three index records. For example, the base might increase by 32 fragments for every group and then start at an offset of 0 after 16 groups. The file system tools in TSK are based on the tools from The Coroner's Toolkit (TCT) (), which is by Dan Farmer and Wietse Venema. An MFT entry can have multiple attributes of the same type. For example, consider MFT entry 313 with a sequence number of 1. For example, one attribute is used to store the file's name, and another is used to store the file's content. To decrypt a \$DATA attribute, the \$LOGGED_UTILITY_STREAM attribute is processed and the user's DDF entry is located. The dstat tool in TSK shows us the allocation status of a UFS fragment and gives us the cylinder group that it is a part of. This section covers where the data are located in UFS and how they can be analyzed. It shows one deleted file, the file with the "*" before it. The last example was too simple, so I will present the more challenging file shown in Figure 11.10. The rest of the times are left as an exercise, if you are really bored. The extended attributes also might have evidence or hidden data and should be examined. Those changes are not included in this description, but 2,00 could be available by the time you read this. Also notice that block 384 is being used as an indirect block pointer. VDOC.PUB Download Embed This document was uploaded by our user. NTFS uses VCN-to-LCN mappings to describe the non-resident attribute runs. In both of these scenarios, we can still determine that the middle file was the last to be deleted. The final unit compresses to 16 clusters, so it is not compressed and a run of 16 clusters is created. The next chapter shows example data structures that contain symbolic links. 4th ed. MFT Entry Contents The size of each MFT entry is defined in the boot sector, but all versions from Microsoft have used a size of 1,024 bytes. To find the inconsistencies, an OS runs a program that scans the file system and looks for missing pointers and other signs of corruption. "Overview of FAT, HPFS, and NTFS File Systems." Knowledge Base Article 100108, 2003. The starting location of each of these data structures is given as a byte offset that is relative to the start of the group descriptor, and the size of the data structure must typically be calculated. fs will list the file names in a given directory. In addition to the group descriptor, each group also contains an inode table and a backup copy of the superblock. This was used in several of the scenarios in Part 3, "File System Analysis," of the book. Our analysis tool might show that the bbb.txt file was deleted, but it really wasn't. Analysis Considerations Deleted file names are easy to locate in ExX, and the Ext3 inode number is not cleared by Linux, so you might also be able to obtain temporal information about when the file name was deleted. File System Journals As any computer user knows, it is not uncommon for a computer to halt and crash. If there are multiple \$DATA attributes in the MFT entry, they are all encrypted with the same FEK. UFS will wipe only the fragments allocated, so parts of a block will still exist after some of it has been reallocated. To do so, we should examine the first 24 bytes of each block to determine if the '.' and './' entries exist. If an incident occurred very recently, you might be able to draw conclusions about where files were deleted from and which file was last allocated. Throughout this book, we have differentiated between the different types of addresses. Attribute Content The content of the attribute can have any format and any size. Several security tools can perform a brute force attack against a user's login password, and this can be used to decrypt the data. It is trivial for an executable to obfuscate the names of the files that it opens. On the outside of the box is basic information, such as your name and address. There are several data structures that keep lists of available fragment sizes and clusters that are ignored for simplicity in this example. Figure 11.1 shows the basic layout of an MFT entry where there is some header information and three attributes. The file system tools are further organized into the data categories that we discussed in Chapter 8, "File System Analysis." Each tool name has two parts, where the first part identifies its group and the second part identifies its function. The other contains the file systems and has a Volume Table of Contents (VTOC) data structure in sector 0. In Figure 11.5 we see the example MFT entry that we saw previously, but now its third attribute is too large to fit in the MFT, and it has associated cluster 829. A journal shows which file system events recently occurred, and this could help with event reconstruction of a recent incident. The time value is also a 16-bit value and also has three parts. Therefore, before we determine the allocation status of a block, we will need to determine in which group it is located. Microsoft reserves the first 16 MFT entries for file system metadata files.[2] The reserved entries that are not used are in an allocated state and have only basic and generic information. In an abstract sense, there is no essential data in this attribute, but the application-level features of the file system require it to be there. 176 \$BITMAP A bitmap for the \$MFT file and for indexes. If we encrypt a file with symmetric encryption and want multiple people to access it, we need to either encrypt it with a key that everyone knows or make a copy of the file for each user and encrypt each with a key that is unique to that user. If the record length of an unallocated directory entry is the actual size that it needs (based on the length of its name), the next directory entry was deleted after it was. Overview UFS uses fragments and blocks to store file and directory content. Boston: Addison-Wesley, 2004. The swap space or page file might also provide copies of unencrypted data. An \$B-tree is similar where it will have two DOS partitions. Group 2 starts in block 65,552, so its inode table starts in block 65,608. 64 \$VOLUME_VERSION Volume information. "How to Fix Cross-linked Files." Microsoft Knowledge Base Article 83140, May 10, 2003b. The second unit is all zeros, so a sparse run of 16 clusters is made for it, and no clusters are allocated. Deleted files have the block pointers, size, and mode cleared from the inode, but UFS preserves the state of the indirect block pointers. Any fragment that is not allocated is extracted for analysis. We read the inode table from block 56 and process the third entry (the first entry is inode 0). The consecutive fragments cannot cross a block boundary, and the bookkeeping information in the file system provides a list of where fragments of a given length can be found. Boston: Addison Wesley, 2005. For example, if we want to find the value 6, we compare it to the root value, which is 7. The address of the block and the starting fragment are added to the inode. The base address is a variable number of blocks from the start of the group, and the bitmaps are a static distance from the base. Sometimes a backup is the only available data, and the investigator needs to make the most of it. The last relevant data structure is located in the cylinder group summary area. Using this information, our theory is that snifferlog-1.dat file was created after the only live twice.mp3 file, and then lic to kill.mp3 was created. Chris rated it really liked it Aug 30, 2014 Charlie rated it was ok May 25, 2013 Hjavadi rated it liked it Mar 23, 2015 Rajesh rated it was amazing Feb 16, 2016 Jan 08, 2009 James rated it it was amazing . (Review from the author) Michael rated it liked it Apr 18, 2014 Mike van Alst rated it did not like it May 06, 2018 Stefan rated it liked it Sep 13, 2014 Chris rated it liked it Sep 26, 2020 Worthy rated it it was ok Dec 01, 2013 John rated it liked it Oct 14, 2019 Avcastoldi rated it did not like it Jul 26, 2013 Dean marked it as to-read Oct 29, 2012 Excelsior marked it as to-read Mar 29, 2013 Simon marked it as to-read Oct 13, 2013 Kaliprasad marked it as to-read Jan 30, 2014 Sripathys marked it as to-read Apr 25, 2014 Loading PreviewSorry, preview is currently unavailable. See also the Bibliography section of Chapter 9. The UFS superblock is located somewhere in the rest of the file system. "Inside WinK NTFS." Part 1, Windows and .Net Magazine Network, November 2000. 96 \$VOLUME_NAME Volume name. Attribute Headers The attribute header identifies the type of attribute, its size, and its name. Soft links are also a second name for a file or directory, but they can span different file systems. This is easy because all we need to do is divide the fragment address by the number of fragments per cylinder group. For example, the next example lists the allocation status of each data unit in an NTFS image: # dls f nfts e1 nfts-10.dd addrjalloc 0:a 1:a (REMOVED) 13423:a 1 3424f The 'a' after each address signals that the data unit is allocated, and an 'f' signals that it is unallocated. Figure 11.11. The co-authored Java Web Services Architecture. There could be an allocated metadata structure with allocated data units, but no pointers between them and no file name pointing to the metadata structure. softlink.txt has its own inode that contains the path of the file. This can be seen in Figure 10.3(A). The time updating for OpenBSD 3, FreeBSD 5, and Sun Solaris 9 systems are the same as reported in ExT for Fedora Core 2. They are limited to two blocks in size, but test if your analysis tools will show you this content and if they include the content in a keyword search. Only the 1-3-2 and 2-3-1 sequences have the same final state. The type of partition table can be specified on the command line using the -t argument and the type, which are given in this paragraph in parentheses. Inodes Inodes in two ways in size, but test if your analysis tools will show you this content and if they include the content in a keyword search. Only the 1-3-2 and 2-3-1 sequences have the same final state. To make the scanning program's job easier, some file systems implement a journal. After we advance to the boundary, we apply the directory entry data structure and perform sanity checks to determine if the data could have been for a directory entry. It compares that with the actual record length. 2, 4, 084 The final '.' entry has a record length of 4,084 bytes because it needs to point to the end of the block, but it needs only 12 bytes. If we acquired at the volume level, the hidden data would be lost. The BSD and Solaris systems that I tested will all wipe the unused sectors in a fragment. A scenario where a backup would be critical is in a corporate environment where a server is not responding because its disks were wiped with 0s and then rebooted. Similar work has likely occurred with the commercial file systems, but the work has not been published, and my basic testing might not have shown the full extent of their algorithms. Microsoft MSDN Library. If we do not think that the IDS was compromised, the only evidence on the system is at the file level, and we can simply copy the necessary logs and take the appropriate press. Instead of saving names and addresses in a file, they would be saved to a special section of the volume. To locate the data, we need its fragment or block address. The basic directory entry structure has the fields given in Table 10.5, Table 10.5. Data structure for a basic FAT directory entry. A sparse attribute is one where clusters that contain all zeros are not written to disk. This section gives an overview to each of the tools in TSK. 0000048: 0400 0000 0e00 0000 0f00 0000 1000 0000 A directory entry is a simple data structure that contains the file name and the inode address where the file's metadata can be found. To determine which group an inode is in, its address is divided by the number of inodes per group, which can be found in the superblock. When a file is extended and it already has fragments, the OS first tries to extend the existing fragments. Content Category The content category of data includes the file and directory content. Even if the dir1 directory has its own files in FS1, they will not be shown when FS2 is mounted on it. We used this command in the NTFS chapters because it stores all data in files. For investigators, this means that you need to know where file systems were mounted. The remaining bytes store attributes, which are small data structures that have a very specific purpose. "Defining Digital Forensic Examination and Analysis Tools Using Automation Layers." International Journal of Digital Evidence, Winter 2003a. . Inodes 0 and 1 are reserved, but not used for anything. The group descriptor will contain the fragment bitmap. Extended attributes are stored in normal data blocks, and the block addresses are given in the inode. The data structures for the node descriptors and an actual directory are given in Chapter 15. In other words, a directory can store both file content and a list of its files and subdirectories. 2 12 File1.dat 8 4,072 There are actually two versions of directory entry structures. An OS can choose any algorithm, but the typical policy is to allocate an inode for a directory in a new cylinder group that has a less than average number of directories and a greater than average number of available blocks. The first block and fragment start with the first sector of the file system. Other OSes could choose a different strategy. The boot code is located in sector 0 and then in sectors 2 to 13. The rest of the first block contains node descriptors, which contain a hash value and a block address. Each block contains a list of variable length data structures that have the fields shown in Table 17.9. Table 17.9. Data structure for the UFS2 extended attribute entry. The unused 32-bit fields are ignored and not reused. Inside Windows 2000. The example shown is a binary tree because there are a maximum of two children per node. The latter attribute exists for every file and directory because it contains the data needed to enforce data security and quotas. We will be using this example image later in this chapter, and it is used for the manual analysis in the next chapter. 0000048: 2000 0000 0104 0464 6174 6500 0000 0000date..... Data Acquisition Layers The general theory of non-volatile data acquisition is to save every byte that we think may contain evidence. George, Esther. For example, if our NTFS file system had 4,096-byte clusters and we found evidence in the 123rd cluster in the unallocated data file, we would supply 123 with the -u flag: # dcacl f nfts u 123 nfts-10.dd 15945 We also can determine the allocation status of a specific data unit by using the dstat tool. Every directory has an \$INDEX_ROOT attribute that contains information about the files and subdirectories that are located in it. A data recovery field is created for each method of data recovery, and it contains the FEK encrypted with a data recovery public key that is used when an administrator, or other authorized user, needs access to the data. For example, A is a parent node to B and C, which are children of A. Although only privileged users can read the file's system name space attributes. The block pointers are 32-bit values in UFS1 and 64-bit values in UFS2. Figure 11.8. A 12-cluster file that is stored in A) normal layout and B) sparse layout with a sparse run of three clusters. Table 17.10. We read the inode table from block 65,608 and process entry 37, which is the relative location of inode 16,549. The superblock defines how many blocks should remain free at any given time. Prior to version 3.0 of NTFS (which came with Windows 2000), only the \$FILE_NAME attribute was in an index, but now there are several other uses of indexes and they contain different attributes. The difference between the UFS1 and UFS2 superblocks is that the UFS2 version includes 64-bit versions of the size and date fields, which were added to the end of the data structure. The second one is because every cylinder group has a backup copy located at an offset of 16 fragments. In Linux, the directory entry structure will remain in the unallocated state until a new file is created whose name is the same length or smaller. There are many types of attributes, and each has its own internal structure. Page 16 Brenner, Susan, Brian Carrier, and Jef Henninger. Figure 11.13. When stored as a sparse attribute, three runs are created and only nine clusters are allocated, which can be seen in Figure 11.8(B). Refer to the man pages or the website for more details. A disk for a Sparc Solaris system has a VTOC in sector 0 of the disk and the boot code in sectors 1 to 15. We first need to process the group descriptor to find the offset of the fragment bitmap, which is located at byte offset 1,200. Microsoft does not delete MFT entries after they have been created. These data are not essential to the file system, and they typically exist as special file system data instead of inside a normal file because it is more efficient. "Windows Server 2003 Technical Reference." Storage Technologies Collection Section, 2004. Lastly, there is a hash database tool named hfind, that allows you to quickly lookup a MD5 or SHA-1 hash value from the NIST NSRL or one that you made using md5sum. . Full blocks are allocated when the file is extended. 112 \$VOLUME_INFORMATION File system version and other flags. The entire file system is considered a data area, and any sector can be allocated to a file. Entry File Name Description 0 \$MFT The entry for the MFT itself. Figure 11.12. Carrier, Brian, and Eugene H. Notice that in Part B both inodes have a link count of one. Examples of this were given in each of the previous file system chapters. If we think of our boxes analogy, there is always the same basic information on the outside of each small box, but the shape of each box may be different. To locate a specific inode, we need to first identify its group, and we can do that by dividing the inode address from the unallocated data. Listing the unallocated entries is useful to find the entries from deleted files where the file name has been reallocated. Compare the size of the file system with the size of the volume to find volume slack. /system32/nlto004.sys 25392 a. For example, many of the OSes will restrict how many blocks a file or directory can allocate in a single group. JAMES LINN, consultant at Hartford Technology Services, co-authored XQuery Kick Start. ELIAS JO, Systems Architect for The New York Times Digital, has architected and/or led development at DeutscheBank, Citibank, Standard & Poor, and ADP. If file system FS2 is mounted on the dir1 directory, when a user changes into that directory and lists the contents, the files from FS2 are shown. Each cylinder group has an inode table, whose relative location is given in the superblock. Backup copies of the superblock can be found in each of the cylinder groups. STEVENS, Software Architect for Hartford Financial Services, is a columnist for Developer.com. Fragments and

Files that are used to store superblocks, inode tables, group descriptors, and the cylinder group summary area are considered allocated even though they are not allocated to a file. If you are looking for a specific file, you might need to reference several file systems before you find the file because different directories could have been on different partitions. For example, in NTFS, files are stored in a special root directory, and in cases of multiple partitions, the files are not necessarily in the same root directory. For example, in the FAT file system, the root directory of one partition is a subdirectory of another partition, and you may need to look in several locations to find the files. A similar situation could occur in the Linux file system, which uses a root directory for each partition. This is because the root directory of one partition is a subdirectory of another partition, and you may need to look in several locations to find the files.

When you want to find a file, you should first determine the file system that was used to create the file. Then, you should determine the directory structure that was used to create the file. This is because the directory structure of a file system is not necessarily the same as the directory structure of a file system. For example, in the FAT file system, the root directory of one partition is a subdirectory of another partition, and you may need to look in several locations to find the files. In the Linux file system, the root directory of one partition is a subdirectory of another partition, and you may need to look in several locations to find the files.

The FAT file system is a simple file system that uses a root directory to store files. The root directory is a directory that contains a list of files and directories. Each file and directory in the root directory has a unique name. The FAT file system also uses a file allocation table (FAT) to store information about the files and directories. The FAT table is a table that contains the starting and ending cluster numbers for each file and directory. The FAT table is used to find the location of each file and directory on the disk.

The Linux file system is a more complex file system than the FAT file system. It uses a root directory to store files and directories. The root directory is a directory that contains a list of files and directories. Each file and directory in the root directory has a unique name. The Linux file system also uses a file allocation table (FAT) to store information about the files and directories. The FAT table is a table that contains the starting and ending cluster numbers for each file and directory. The FAT table is used to find the location of each file and directory on the disk.

The NTFS file system is a more complex file system than the FAT and Linux file systems. It uses a root directory to store files and directories. The root directory is a directory that contains a list of files and directories. Each file and directory in the root directory has a unique name. The NTFS file system also uses a file allocation table (FAT) to store information about the files and directories. The FAT table is a table that contains the starting and ending cluster numbers for each file and directory. The FAT table is used to find the location of each file and directory on the disk.

The HFS file system is a more complex file system than the FAT, Linux, and NTFS file systems. It uses a root directory to store files and directories. The root directory is a directory that contains a list of files and directories. Each file and directory in the root directory has a unique name. The HFS file system also uses a file allocation table (FAT) to store information about the files and directories. The FAT table is a table that contains the starting and ending cluster numbers for each file and directory. The FAT table is used to find the location of each file and directory on the disk.

The UFS file system is a more complex file system than the FAT, Linux, NTFS, and HFS file systems. It uses a root directory to store files and directories. The root directory is a directory that contains a list of files and directories. Each file and directory in the root directory has a unique name. The UFS file system also uses a file allocation table (FAT) to store information about the files and directories. The FAT table is a table that contains the starting and ending cluster numbers for each file and directory. The FAT table is used to find the location of each file and directory on the disk.

The XFS file system is a more complex file system than the FAT, Linux, NTFS, HFS, and UFS file systems. It uses a root directory to store files and directories. The root directory is a directory that contains a list of files and directories. Each file and directory in the root directory has a unique name. The XFS file system also uses a file allocation table (FAT) to store information about the files and directories. The FAT table is a table that contains the starting and ending cluster numbers for each file and directory. The FAT table is used to find the location of each file and directory on the disk.

The Btrfs file system is a more complex file system than the FAT, Linux, NTFS, HFS, UFS, and XFS file systems. It uses a root directory to store files and directories. The root directory is a directory that contains a list of files and directories. Each file and directory in the root directory has a unique name. The Btrfs file system also uses a file allocation table (FAT) to store information about the files and directories. The FAT table is a table that contains the starting and ending cluster numbers for each file and directory. The FAT table is used to find the location of each file and directory on the disk.

The ZFS file system is a more complex file system than the FAT, Linux, NTFS, HFS, UFS, XFS, and Btrfs file systems. It uses a root directory to store files and directories. The root directory is a directory that contains a list of files and directories. Each file and directory in the root directory has a unique name. The ZFS file system also uses a file allocation table (FAT) to store information about the files and directories. The FAT table is a table that contains the starting and ending cluster numbers for each file and directory. The FAT table is used to find the location of each file and directory on the disk.

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