Lab 6 Report  
File Deletion

# Task 2: Creating some Files

1. Record the file sizes reported by the ll command.

|  |  |  |
| --- | --- | --- |
| **File name** | **File content** | **File size (bytes)** |
| file1 | First file created |  |
| file2 | Second file created |  |
| file3 | Third file |  |

# Task 3: Deleting a File on Unix

1. Record the data and filename offsets reported by the strings command (as seen before a file was deleted).

|  |  |
| --- | --- |
| **Offset** | **String** |
|  |  |
|  | lost+found |
|  | file1 |
|  | file2 |
|  | file3 |
|  | First file created |
|  | Second file created |
|  | Third file |
|  |  |

1. Record the data and filename offsets reported by the strings command (as seen after file2 was deleted).

|  |  |
| --- | --- |
| **Offset** | **String** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. Item #2 of the worksheet shows the output of the strings command before file2 was deleted, while item #3 shows the output after file2 was deleted. Compare these two outputs, and then describe your observations. What security problems, if any, are implied by your observations?

# Task 5: Securely Deleting a File on Unix

1. Record the data and filename offsets reported by the strings command, (as seen after file3 was “shredded”).

|  |  |
| --- | --- |
| **Offset** | **String** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# Task 6: NTFS Virtual Disk

1. Record the file sizes reported by the ll command.

|  |  |  |
| --- | --- | --- |
| **File name** | **File content** | **File size (bytes)** |
| file1 | First file created |  |
| file2 | Second file created |  |
| file3 | Third file |  |

1. Record the data and filename offsets reported by the strings command (in the NTFS).

|  |  |
| --- | --- |
| **Offset** | **String** |
|  |  |
|  |  |
|  |  |

1. Enter the inode number associated with file1: \_\_\_\_\_\_\_\_\_

Enter the inode number associated with file3: \_\_\_\_\_\_\_\_\_

1. Describe any extra experimentation **or research** you performed.
2. What did you learn from this lab exercise? Was there anything surprising or unexpected?
3. How could this lab exercise be improved?