Examining User Behavior:
File Creation, Updates, Deletion

By Danny Hua

Total Files Created 8/1/2019 - 10/31/2019:	Total Distinct Users:	Average # of files created per day:	Average # of files created per user:
101,908	10,030	1,108	10.16

Towards the end of October, total files being created is down by more than 50% compared to all time high in the last 3 months on Aug 11, 2019.
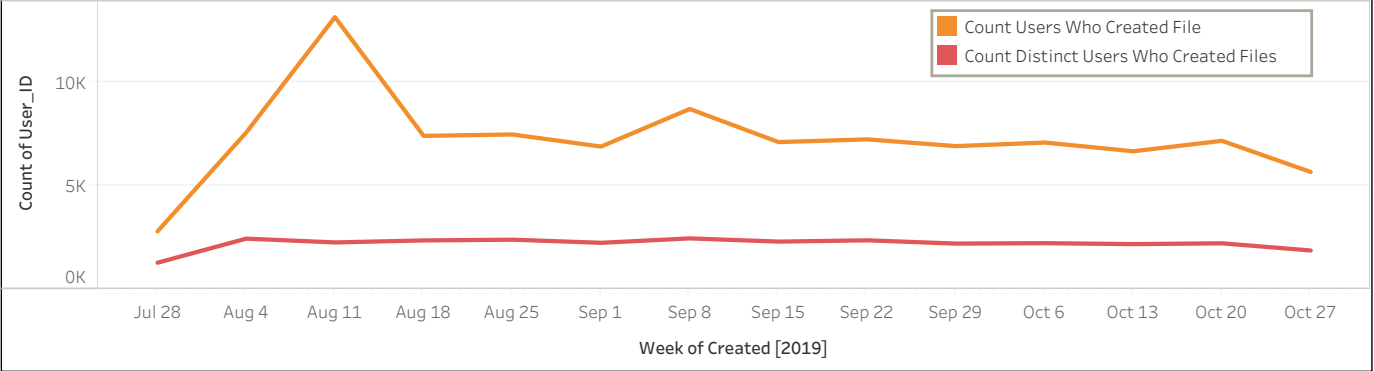
By the end of October, there were only 1,870 distinct users who created a new file.

Week of Created	Count Users Who Created File	Weekly % Change	Count Distinct Users Who Created Files	Weekly % Chan
July 28, 2019	2,795		1,278	
August 4, 2019	7,578	171.13%	2,443	
August 11, 2019	13,156	73.61%	2,259	
August 18, 2019	7,413	-43.65%	2,356	
August 25, 2019	7,481	0.92%	2,392	
September 1, 2019	6,896	-7.82%	2,241	
September 8, 2019	8,714	26.36%	2,455	
September 15, 2019	7,113	-18.37%	2,299	
September 22, 2019	7,244	1.84%	2,361	
September 29, 2019	6,917	-4.51%	2,203	
October 6, 2019	7,001	2.52%	2,222	

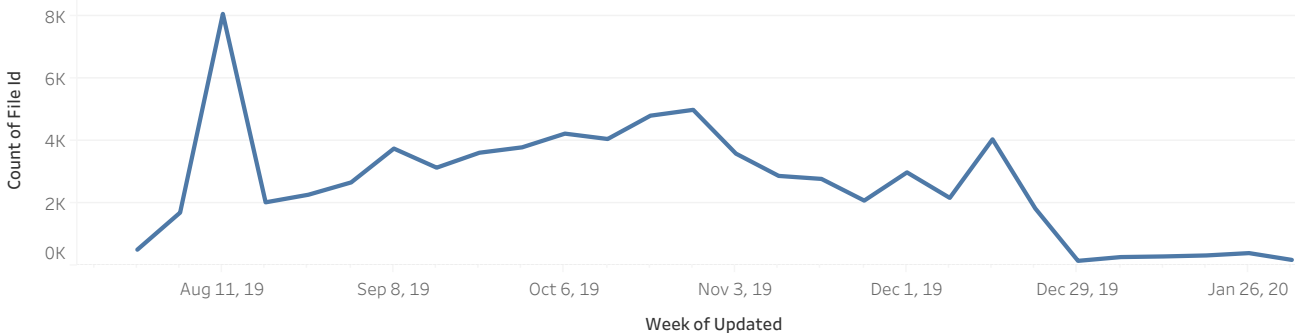**Average # of Times a File is Updated:**

15.44

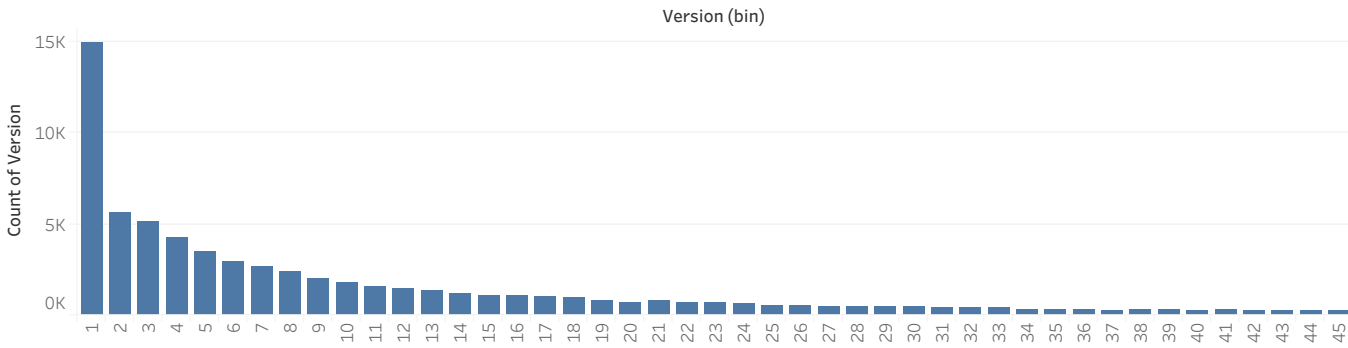**Median # of Times a File is Updated:**

5.00

Greatest # of updates on a file:

1,494

Files last updated (Excludes files that were deleted). There is a drastic decline in updates in December.

Distribution of how many times a file was updated (Excludes files that were deleted).

Total Files Deleted:	Average # Files Deleted Per Day:	Avgerage Age (Days) of Files Before Deletion:
28,304	542.1	26.75

Number of files deleted each week.
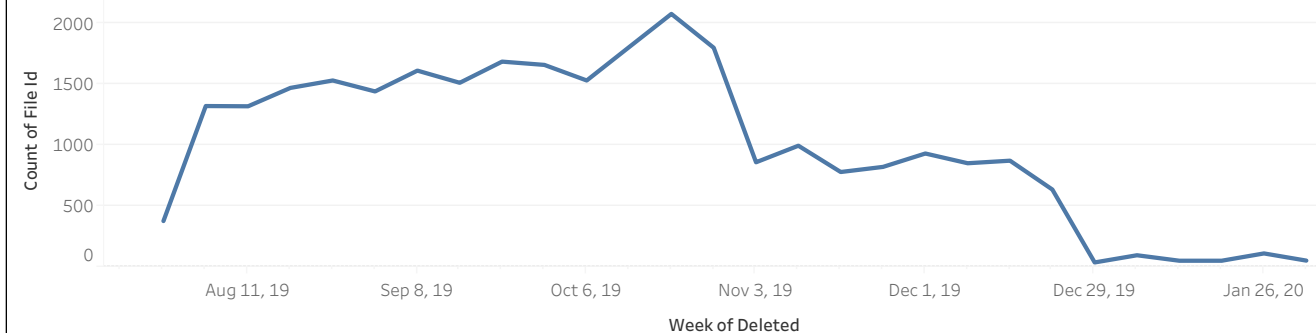
There are over 11k files deleted on the same day they are created. This means that about 40% of the files deleted we done on the same day it was created.
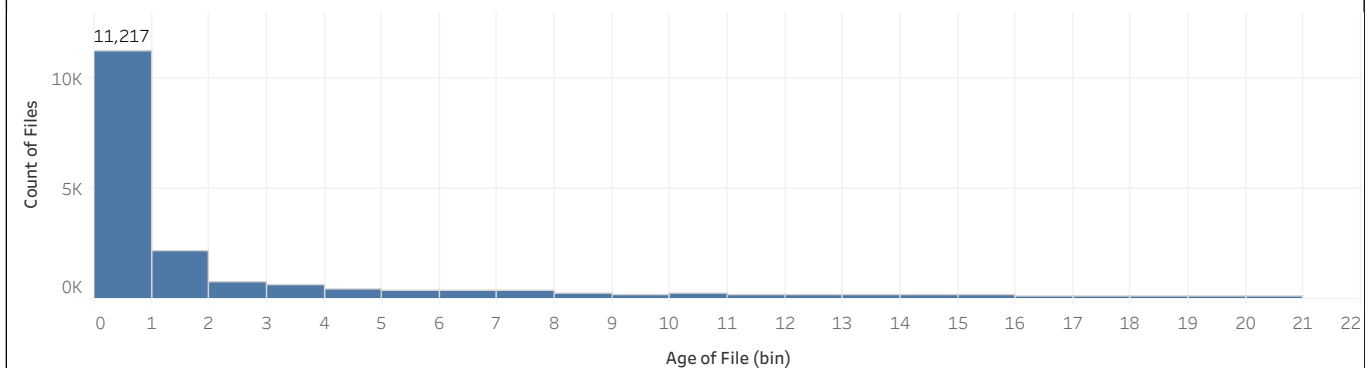
Title	Created	Updated	Deleted	Conclusion

Conclusion

1. August has an abnormally high number of new files created (13k+). A deeper dive may be required to understand why it is so high compared to all of the other months.

2. September - October displays what seems to be "normal activities" with about 7,000 new files being created each week. Towards the end of October is when we see a drop to ~ 5,600 .

3. Towards the end of October, we start to see less distinct users creating new files. We see a drop to 1,870 distinct users. We should look into why our users are not creating as many new files as they were in prior months.

4. There is a sharp decline in file updates as we enter into November. This is also the same time where we experienced less files being created as well.

5. Again we see a decline in files being deleted as we enter into November.

6. **Overall, we see a drop in user activities in regards to new file creation, updates, and deletion as we entered into November. With the data we currently have we cannot explain the sudden drop in user activities. More data is needed to fill in the missing gaps to better understand our users.**