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Summary: A 250-500-word paper summarizing the following:

# Statistical/Hypothetical Question

Is Linux more secure than Windows?

# Outcome of your EDA

I feel my analysis was good. In my opinion linux is far more secure then windows and I feel the data would have showed that. However, Microsoft as a private company is notorious for not being forthcoming with vulnerabilities.

Also, linux is used by many operating systems. I targeted Ubuntu as it is a very popular choice amongst linux enthusiast’s. Although across 600+ Linux based distributions, a given vulnerability affects them all and a given solution affects them all.

Whereas my experience with Windows, a given fix rarely applies to all desktops and server releases. Which is disappointing that WIndows cannot create a single fix that satisfies multi desktop and servers like a single Linux fix can. This is more than likely due to the single baseline that the bulk of Linux based systems utilize.

# What do you feel was missed during the analysis?

Most of what I feel I missed is how Windows and Linux declare and resolve a CVE against a given thing like a desktop or server. This I believe was a factor in determining an answer to my question.

# Were there any variables you felt could have helped in the analysis?

No, I could have added more Linux distributions to my list of operating systems. But I do not think that would have changed any results.

# Were there any assumptions made you felt were incorrect?

I do not feel there were any assumptions that I made that were incorrect. Most of the community I am in knows how Microsoft operates. This knowledge makes determining a question like mine difficult. Also there is a concept of the mean time of a vulnerability. In my experience, Linux does a great job responding to vulnerabilities as they are announced by usually already having them resolved.

To elaborate, when a vulnerability is discovered, a community has a period of time to resolve the issue before it is announced to the world. This gives that community time to resolve the discovered vulnerability before “crackers” and crime organizations can take advantage of the discovery. And thats to most Linux distributions repository process, the patch is usually implemented even before announcement of the vulnerability. Once again proving a superior system to utilize for day-to-day operations.

# What challenges did you face, what did you not fully understand?

The challenges I faced were all statistics. I did not realize going into this class that things would have been so statistic heavy. As a result, I feel the final project is hindered due the lack of my understanding of the heavy statistics the appear to be required. This is reflected in my understanding of what the statistics tell me about my dataset.

I also did not understand how to break down my variable to provide anything meaningful in the things required for the slide deck, as a result my slide deck suffered.

## Notes

* https://www.ghacks.net/2019/09/23/former-microsoft-employee-explains-why-bugs-in-windows-updates-increased/
* https://www.reddit.com/r/Surface/comments/3s14un/just\_a\_reminder\_that\_one\_year\_ago\_microsoft\_fired/
* https://www.quora.com/Does-Microsoft-regret-to-fired-all-QA-testers-They-have-a-lot-of-bugs-in-new-updates-for-windows
* https://www.softwaretestinghelp.com/linux-vs-windows/
* https://www.softwaretestinghelp.com/ubuntu-vs-windows/