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Professor Hammon

CSC 153
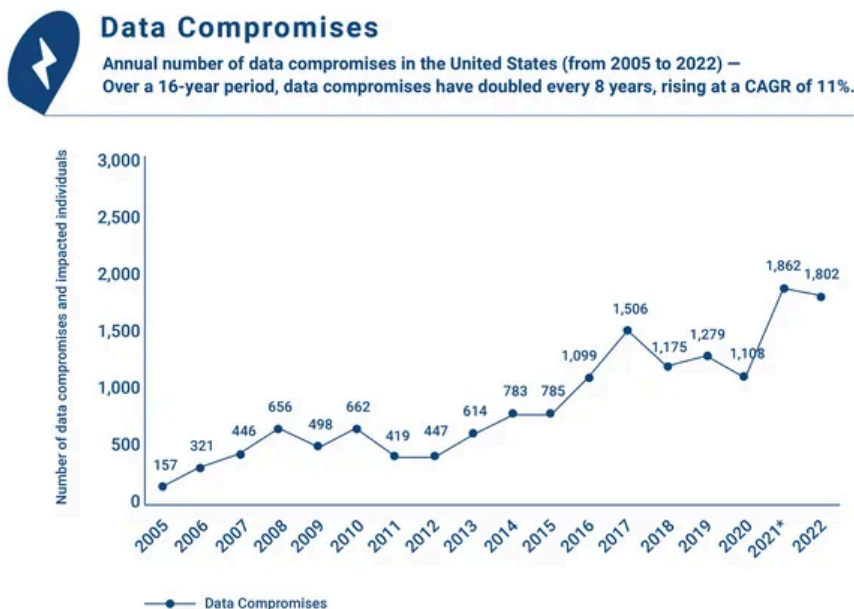
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<center>Lab 2 - Business Case</center>

Intro and Justification:

Emails, documents, files and many other digital artifacts that are related to a case need to be handled correctly. The correct steps must take place to ensure that the data is handled properly. My lab will ensure that these pieces of digital evidence will be analyzed correctly and not be compromised. In the case that digital evidence is mishandled, it could lead to cases being decided incorrectly due to the inadequate evidence. It could also lead to a loss of important and confidential data. Our lab could be of help to state agencies and law enforcement.

Below is an image showing the number of data compromises in the United States from 2005 - 2022. There has been a large amount in the past couple of years and this could be due to a lack of sufficient lab resources.

Data Compromises

Annual number of data compromises in the United States (from 2005 to 2022) — Over a 16-year period, data compromises have doubled every 8 years, rising at a CAGR of 11%.

Budget Development:

Our lab will have 5 forensic examiners meaning that the lab needs to be about 750 sq feet. Each examiner will need to be trained and the cost of this is about $800 - $950 per person, per month. For the tools that we will need, it will cost about $600 - $750 per month for each employee. For software requirements, we will be using Windows and Linux operating systems and will require multiple software tools to help with our investigations. The cost for this will be around $1200 - $1350 per month for each employee. Lastly, for the hardware requirements, we can expect to have about 20+ inspections per month and will need lots of storage to make sure we can maintain all this data. The cost estimate for this will be about $1450 - $1550 per month for each employee. We will market our lab by networking with different state and law organizations to build connections, then use those connections to find even more clients.

So overall, for all of our lab requirements, we will need about $20,250 - $23,000 per month to ensure that our lab will be able to take on cases. This is the total of costs from a training, software, hardware and investigative tools perspective.