Overview

- There are currently an ulletestimated 15 billion compromised credentials that are being sold on underground forums.
- This study gives an insight \bullet into what goes on in the underground forums to increase preparedness, response, and recovery.
- Underground forums (RAID and Hack) were analyzed to investigate recent \bullet and past activity with credential sharing.
- Different processes of how many types of credentials are shared amongst cybercriminals were identified.
- A clear graph that models the events and potential paths that were \bullet studied has been developed.
- A compromised dataset and database descriptions were used to find \bullet what kinds of information are being sold and/or shared in the underground forums.
- Interactions between users and subsections of the forums were studied to understand the behavior of users per forum.

Results

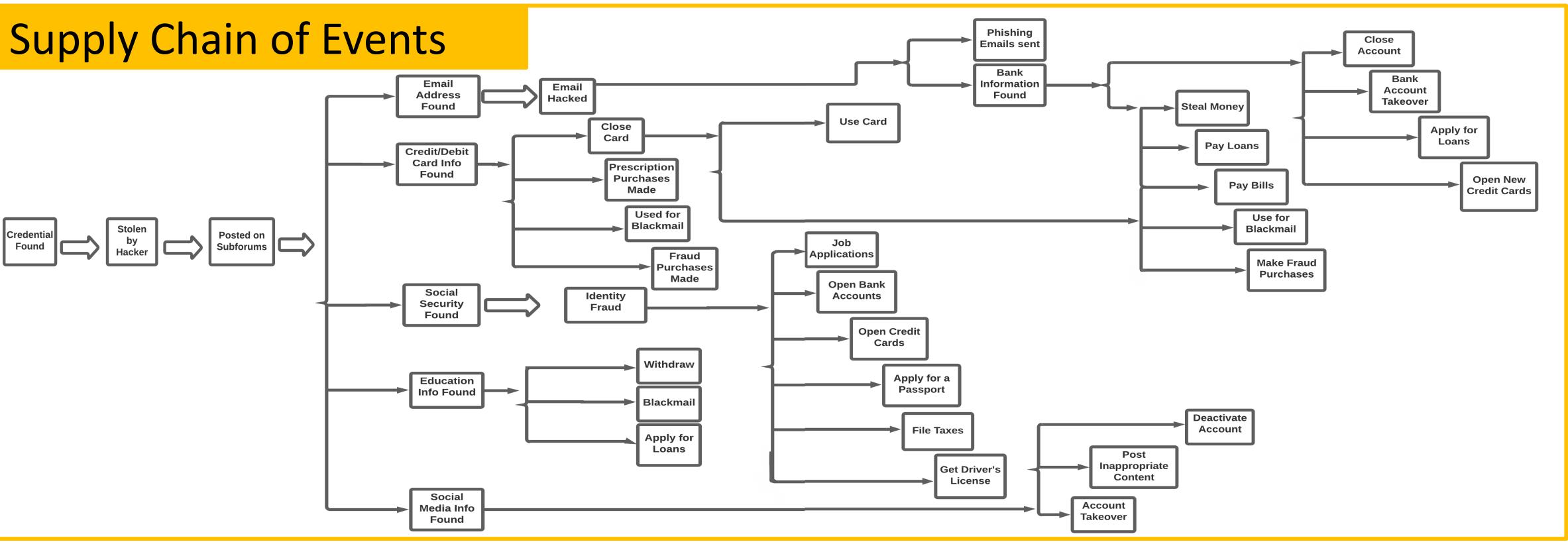
- As seen in the graph to the right, \bullet the stolen credentials studied falls primarily into five categories: email, cards, SSN, education, and social media info.
- An overlap between some of the categories is apparent due to the nature of the credential; for example we see that card info can lead to many attacks that bank account information compromises can as well.

Stolen by Hacker Credential Found

Adventures of a Stolen Credential

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Research Methods



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Future Work

- Further investigation on each of the five categories introduced below.
- Analyzing private messages in underground forums.
- Investigating if credentials move from platform-to-platform.

