WinstonSoft Weekly Report 2.10

This week :

- NNTP protocol improved and debugged.
- Some features added to user interface.
- Continued developing the YMSG matcher.
- Improvements in Decoder module.
- Working on SVM module.

Next week :

- Continue developing NNTP matcher.
- Continue developing YMSG matcher.
- Adding more features to user interface.
- Start developing a new extra protocol recognizer.

Can HOŞGÖR: This week, I worked with my friends to finish the requirements of second milestone. I worked mainly on the user interface and helped İlker implement the summary filtering functionality. Then I fixed some minor bugs in the decoder module such as incorrect differentiation of incoming and outgoing packets. I fixed parts of code that caused deadlocks in the program. After that I removed the unused code fragments and debugging related code. Then I continued my work on the SVM module. First I added code to remove duplicate entries from the training dataset, then I wrote the scripts used for training and testing the SVM module. Besides that, I helped Elvan with debugging of the YMSG matcher, and prepared some data for the demo scenarios.

Elvan GÜLEN: This week, I continued working on YMSG protocol. First I handled some bugs and errors which had came out previous week and then for forming a more detailed summary I analysed to many pcaps and documentation. Even for retrieving the contact list there are very different ways and I considered these differences that arose from the varied versions of ymsg and I implemented these different cases. Now, our project is able to detect YMSG protocol nearly %100 and gives output including the messages between users, status changes, login - log off, new mails (from - to - title), transfered files (from - to - file name), the friend removal, contact list detailed with groups and etc. There are not too much left but a much more detailed and structured output can be formed. So next week, I will make some additions about the summary part and besides yesterday I found an important bug in YMSG part, I'm planning to handle it in the next week.

Çağla ÇIĞ : This week was the last one before the second demo so I spent my whole time trying to make ACCIPP ready for the beta release on 2nd of May. First of all, since I started the implementation of an extra protocol, i.e NNTP, although it wasn't fatally necessary for the 2nd demo I tried to finish it. I started with bug cleaning and improvements, then addition of new request-reply couples and the ability to capture the attachments belonging to news articles. For this purpose I created lots of pcap files, this time switching from telnet to mozilla thunderbird and used news.newsturkiye.net and news.microsoft.com news servers for this purpose. I lost a lot of time trying to solve a problem which seemed major at first, but then I discovered that it was because of a problem in decoding, i.e retransmitted and broken packets. Following this was testing the class for reliability and efficiency. Although nearly 95% reliable (not a calculation, just an estimate), it was initially pretty inefficient, but surprisingly though rearranging the order of the if-else conditions helped the efficiency a lot and solved this problem. Finally, I updated the Gannt Chart found in the website, did minor changes in the website and since we don't have an actual executable package which can be uploaded to the website as releases and is ready for end-users I started working on how to use installshield or a free equivalent product for this purpose. Next week, I am going to add the remaining request-reply couples to the NNTP class and if time allows I am planning to start a whole new protocol by first deciding on one and studying on its RFC documentation.

Nazif İlker ERÇİN: This week, I have spent all my time to make our program ready for the second demo. I spent my time developing the NNTP matcher file captures. We tried to capture sent and received articles on a news server. We also capture any file attached to the sent or received message. We have also tried to debug the NNTP matcher eliminating unrelated high match values. In addition to these, I tried to add some necessary features to the user interface. These are summary filter and connection list clearing. Summary filtering is very simple to use. User should type what s/he is looking for in the summary and the program does the filtering automatically without waiting for the user to press any key or button. By pressing the "Clear All" button in the user interface toolbar, user may clean the connections list.Next week, I am planning to develop another extra protocol recognizer that will be decided by our group. I will also try to do some more regulations in the user interface.

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