

## CS795/895: Topics in Data Mining and Security

Summer 2011

### Homework #4: Due: June 15, 2011

Given the past login/logout activity of a faculty member, determine if the following activities are to be considered as authentic or intrusion.

Login activities for which you need to determine the authenticity:

| Date     | Login    | Session time |
|----------|----------|--------------|
| (MMDDYY) | (HHMMSS) | (HHMMSS)     |
| 020207   | 101010   | 020202       |
| 020407   | 060203   | 090706       |
| 020407   | 230002   | 010102       |
| 020607   | 040330   | 050505       |
| 020607   | 195555   | 020350       |
| 020707   | 020220   | 070030       |

The log has the account login time and length of each session (time between login and logoff)

| Date     | Login    | Session time |
|----------|----------|--------------|
| (MMDDYY) | (HHMMSS) | (HHMMSS)     |
| 010207   | 060518   | 040328       |
| 010207   | 200128   | 020350       |
| 010307   | 074550   | 055045       |
| 010307   | 213040   | 030303       |
| 010407   | 070528   | 060220       |
| 010407   | 211120   | 050250       |
| 010507   | 060000   | 022020       |
| 010507   | 200840   | 032225       |
| 010607   | 080110   | 030228       |
| 010707   | 200128   | 020350       |
| 010807   | 074550   | 055045       |
| 010907   | 213040   | 030303       |
| 011007   | 060518   | 040328       |
| 011007   | 200128   | 020350       |
| 011107   | 074550   | 055045       |
| 011107   | 213040   | 030303       |
| 011207   | 070528   | 060220       |
| 011207   | 211120   | 050250       |
| 011307   | 060000   | 022020       |
| 011307   | 200840   | 032225       |
| 011407   | 080110   | 030228       |

011407 200128 020350  
011607 074550 055045  
011607 213040 030303  
011807 050528 060220  
011807 201120 040355  
011907 080100 042020  
011907 220000 030005  
012007 060518 040328  
012007 200128 020350  
012107 074550 055045  
012107 213040 030303  
012207 070528 060220  
012207 211120 050250  
012307 060530 042020  
012307 210840 032225  
012407 070110 030228  
012407 210128 020350  
012607 084550 055045  
012607 223040 030303  
012707 060530 042020  
012707 210840 032225  
012807 070110 030228  
012807 210128 020350  
012907 084550 055045  
012907 223040 030303  
013007 070110 030228  
013007 210128 020350  
013107 084550 055045  
013107 223040 030303