Malicious network activity detection

Goal: Analyse live NetFlow data on suspicious behaviour

**Approach**: The Malware Intelligence Team is interested in pragmatic students and graduates willing to explore new grounds in analysing in NetFlow captured network traffic for detecting malicious behaviour. **Excellent high performance information processing skills** and good knowledge and understanding of internet and internet related network traffic is required:

- Research existing light weight malicious behaviour detection algorithms applicable to NetFlow analysis
- Developing new malicious behaviour detection algorithms applicable to NetFlow analysis on a conceptual level
- Select a subset of malicious behaviour on relevance and implementation feasibility
- Implement the subset in pseudo-code
- Present the subset meta-code to the Malware Intelligence Team
- Realize a proof of concept implementations of approved subset members in Python
- Test the individual implementations on effectiveness in a lab-environment

**Result**: The result is a report on effectiveness and relevance based on lab results, recommendation on applicability of the individual implementations and recommendations for future research.

**Working environment**: The Malware Intelligence Team is offering a pleasant, spacious working environment. Our lab environment is located on walking distance of a main train station. Skilful and experienced team members are responsive and supportive, the working environment is open, informal and relaxed. Work is goal oriented and not stringently office bound. Exceptions are working with confidential material and work with lab resources.

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