You should answer questions 1 and 2, and choose one of 3 or 4.

- 1. In the lectures, the modelling formalism acKlaim has been introduced. Choose a non-trivial part of an organization that exhibits potential insider threats, and model it using acKlaim. Explain where the insider threat occurs.
- 2. Explain how acKlaim models actors and their behaviours (approx. one page).
- 3. The current version of acKlaim does only support unencrypted data. Sketch how this can be added to the language and its semantics.
- 4. As discussed in the lectures, the analyses in their current form do over-approximate uncertain behaviour. One approach would be to compute the probability that a certain action or event occurs. Extend the current approaches with mechanisms to do so, and argue for your solution.