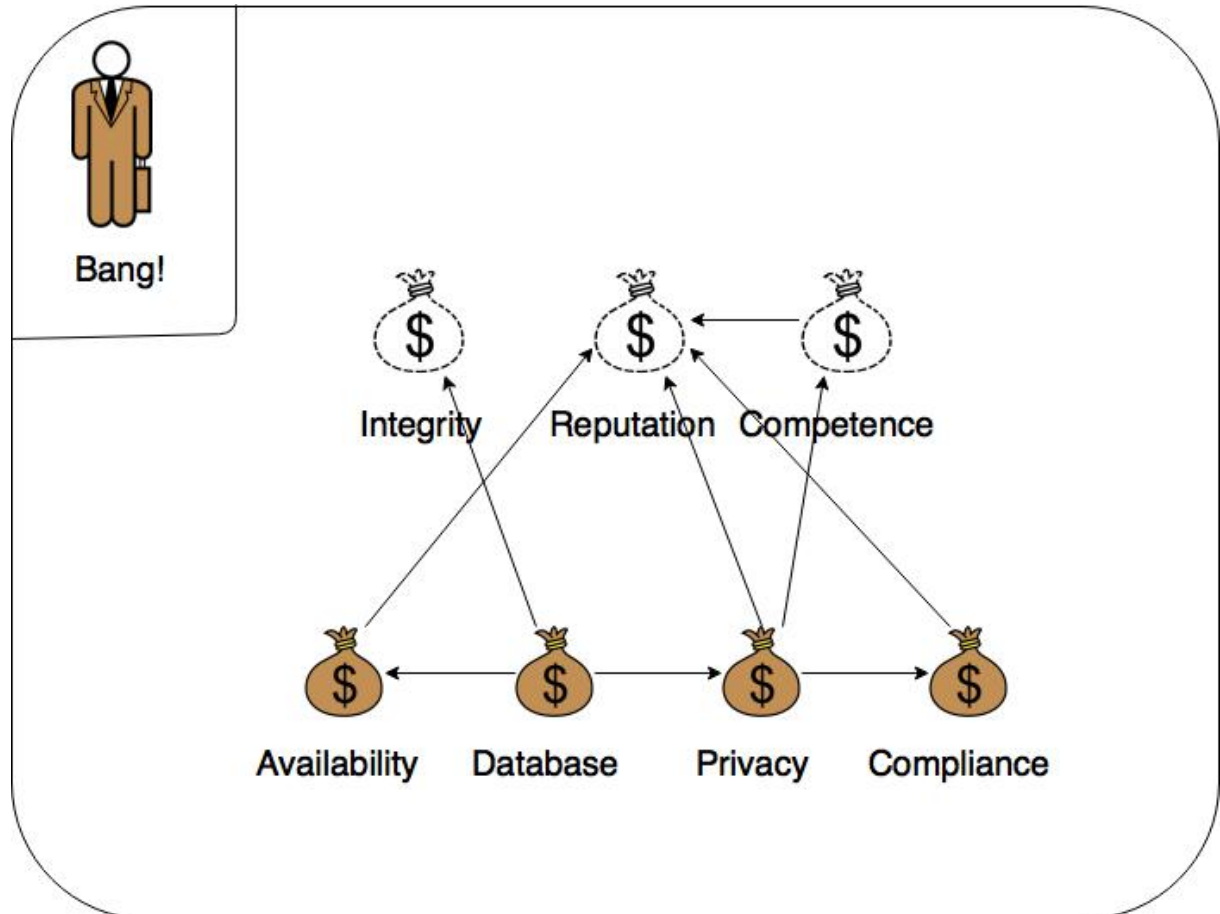


# Oblig 3 – Sondre Kristensen

## Exercise 1:



### Exercise 2:

| Who/What?      | How, scenario, harm?   | What makes it possible?                |
|----------------|--|--|
| Hacker         | Breaks into system and compromises the integrity or confidentiality of Database.                     | Remote access to the Recruitment Tool. |
| System failure | The application is shut down, hurting its availability.  | Hardware or software flaws.            |
| Employee       | Leakage of private data to the public due to procedural faults, compromising privacy and compliance. | Lack of competence, good procedures.   |

### Exercise 3:

Qualitative consequence scale for the asset reputation

|               |   |
|---------------|---|
| Catastrophic  | No one wants to do business with the company  |
| Major         | Generally viewed as an unprofessional company |
| Moderate      | Known to have bad practices                   |
| Minor         | Known to have some issues                     |
| Tiny          | Disliked by some                              |
| Insignificant | Disliked by few                               |

Qualitative consequence scale for the asset competence

|               |   |
|---------------|---|
| Catastrophic  | No employee has any idea about what they are doing    |
| Major         | Few employees have any idea about what they are doing |
| Moderate      | High up employees lack most knowledge                 |
| Minor         | High up employees lack some knowledge                 |
| Tiny          | Some employees lack some knowledge                    |
| Insignificant | Few employees lack some knowledge                     |

Quantitative consequence scale for the asset availability

|               |                                  |
|---------------|----------------------------------|
| Catastrophic  | Unavailable: [1 week, $\infty$ ) |
| Major         | Unavailable: [1 day, 1 week)     |
| Moderate      | Unavailable: [1 hour, 1day)      |
| Minor         | Unavailable: [1 min, 1 hour)     |
| Tiny          | Unavailable: [10 sec, 1 min)     |
| Insignificant | Unavailable: [0, 10 sec)         |

Quantitative consequence scale for the asset privacy

|               |                            |
|---------------|----------------------------|
| Catastrophic  | [50%, 100%] leaked files   |
| Major         | [10%, 50%) leaked files    |
| Moderate      | [1%, 10%) leaked files     |
| Minor         | [0.1%, 1%) leaked files    |
| Tiny          | [0.01%, 0.1%) leaked files |
| Insignificant | [0%, 0.01%) leaked files   |

Exercise 5:

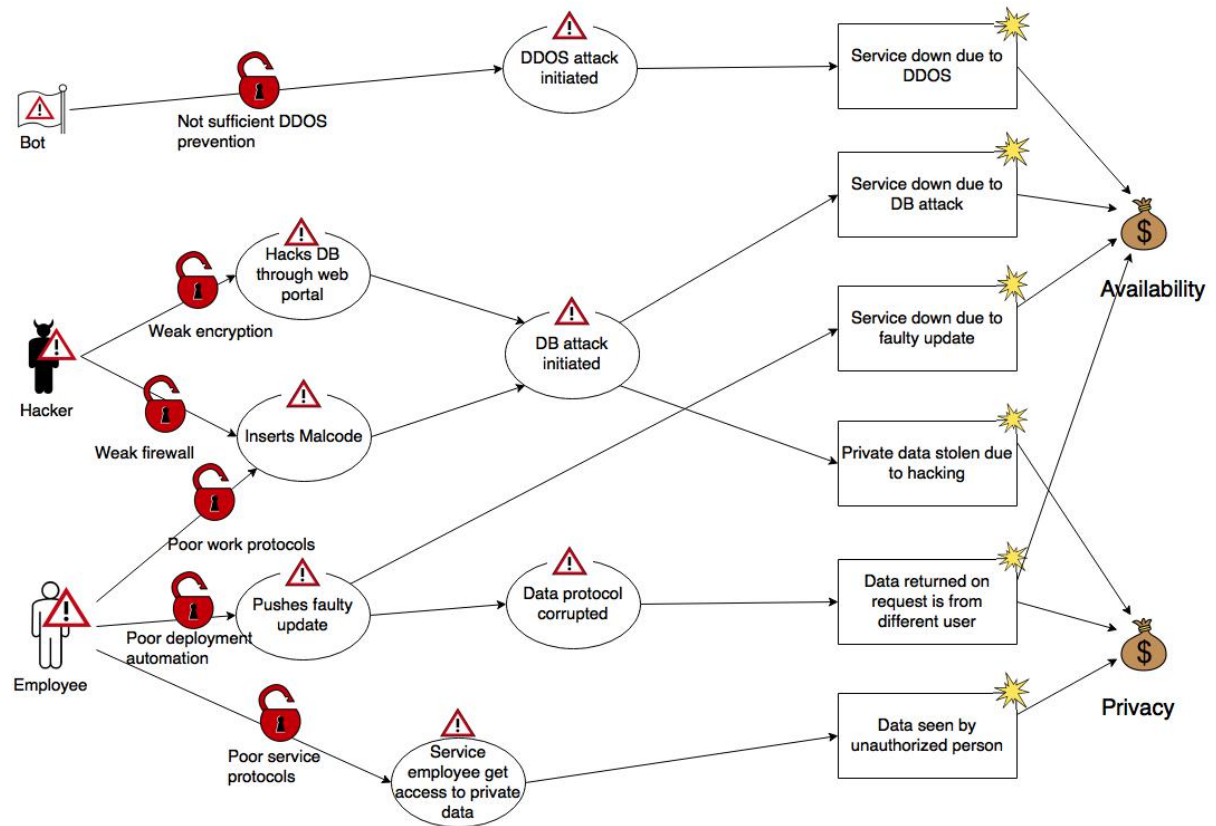
Quantitative likelihood scale

|                |                      |
|----------------|----------------------|
| Certain        | [100, 1000) : 1 year |
| Mostly Certain | [50, 100) : 1 year   |
| Likely         | [10, 50) : 1 year    |
| Possible       | [1, 10) : 1 year     |
| Unlikely       | [0.1, 1) : 1 year    |
| Rare           | [0, 0.1) : 1 year    |

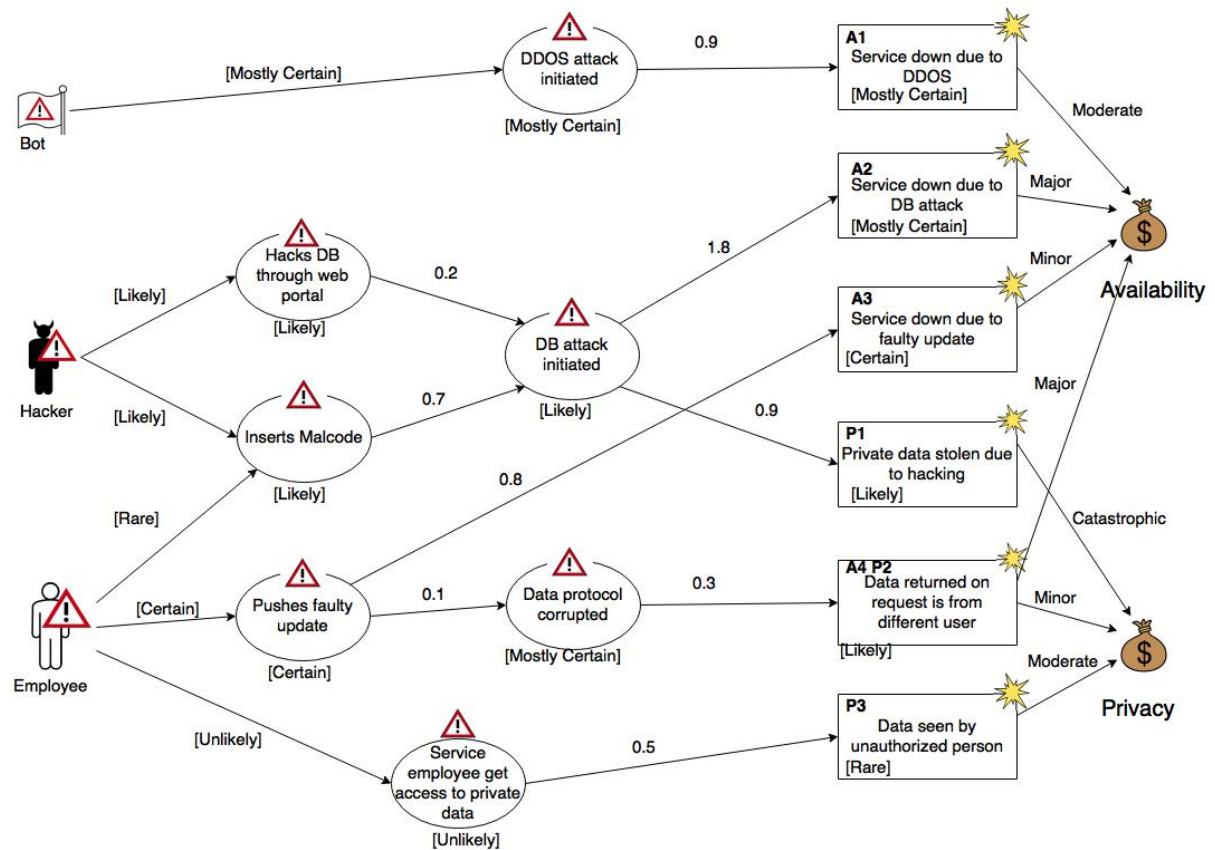
Exercise 4:

| Likely/Cons    | Insignificant | Tiny | Minor | Moderate | Major | Catastrophic |
|----------------|---------------|------|-------|----------|-------|--------------|
| Rare           |               |      |       |          |       |              |
| Unlikely       |               |      |       |          |       |              |
| Possible       |               |      |       |          |       |              |
| Likely         |               |      |       |          |       |              |
| Mostly Certain |               |      |       |          |       |              |
| Certain        |               |      |       |          |       |              |

Exercise 6:



Exercise 7:



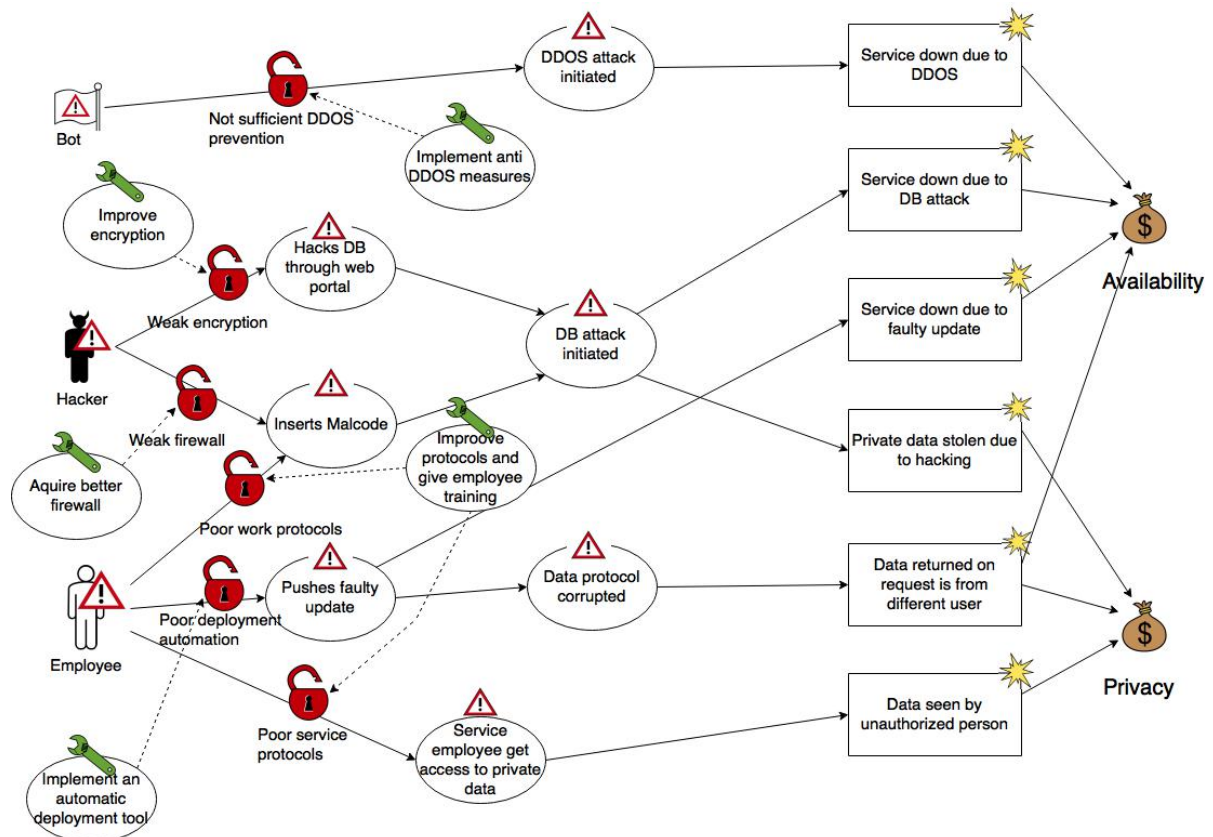
Given that this diagram is complete and there are no other treats that could execute one of the unwanted incidents or threat-scenarios in this diagram, I would argue that this diagram is fairly consistent. Since the likelihood is based on scales, the resulting likelihoods are based on an estimate of which category the resulting interval would belong to.

Exercise 8:

| Risk for Reputation | Based on Direct risk | Value                    |
|---------------------|----------------------|--------------------------|
| R1                  | A1                   | Mostly Certain, Minor    |
| R2                  | A2                   | Mostly Certain, Moderate |
| R3                  | A3                   | Certain, Insignificant   |
| R4                  | P1                   | Likely, Catastrophic     |
| R5                  | A4, P2               | Likely, Moderate         |
| R6                  | P3                   | Rare, Moderate           |

| Likely/Cons    | Insignificant | Tiny | Minor | Moderate | Major | Catastrophic |
|----------------|---------------|------|-------|----------|-------|--------------|
| Rare           |               |      |       | P3, R6   |       |              |
| Unlikely       |               |      |       |          |       |              |
| Possible       |               |      |       |          |       |              |
| Likely         |               |      | P2    | R5       | A4    | P1, R4       |
| Mostly Certain |               |      | R1    | A1, R2   | A2    |              |
| Certain        | R3            |      | A3    |          |       |              |

Exercise 9:



Some new risks might be introduced due to the introduction of the treatments. For example, the DDOS measures might think a regular employee is trying to do a DDOS attack, when in reality he is just trying to acquire a lot of data, thus sending a lot of request. The automatic deployment tool might be bugged, and upload some code it is not supposed to do, or some employees might accidentally override the automatic deployment process.