Summary of Lecture 7

This week we had lecture 7 which consisted of two parts:

(i) In the first pat we have looked to the Security Risk Management approach. I have introduced you the metrics, and gave few examples of the metric application. Exercise 7 part one asks you to use this approach, and to calculate the risks which needs to be mitigated first. Please note that the formula (see slide 22, and page 4 in the exercise description), which needs to be used for the final Priority calculation is:

\[
\text{Priority} = A \times \text{Business asset value} + B \times \frac{1}{\text{Cost of countermeasures}} + C \times \text{Risk reduction level}
\]

(under assumption that A, B and C equals to 1)

(ii) In the second part of the lecture we have started to analyse access control models. We have discussed the Role-based Access Control (RBAC) model and two modelling languages (SecureUML and UML sec), which help defining RBAC policies, were illustrated. The second part of the Exercise 7 asks you to create the models - one using the SecureUML (was illustrated during the Practicals) and second using UMLsec.