

IoT Security and Privacy

Smart Home

Instructions:

1. Note: Blue text points to a web link. Ctrl + Click to follow link.
2. Answers to all questions must be put into **ONE** document. That is, every time, each student can only submit one report document, answering all questions of this assignment.
3. Students must put answers following each question in this assignment. The instructor will not grade a report with only answers in it and the student gets zero for such an assignment. An assignment report must include original questions.
4. Students **MUST** submit the finished assignment in either Microsoft Word or pdf format. The doc must be submitted as ONE standalone file and cannot be tarred or zipped into a container.

Review questions:

1. Risk is a function of the **likelihood** of a given **threat-source**'s exercising a particular potential **vulnerability**, and the resulting **impact** of that adverse event on the organization. (Yes/No)
2. Risk mitigation is prioritizing, evaluating, and implementing the appropriate risk-reducing controls recommended from the risk assessment process. (Yes/No)
3. KNX is an OSI-based network communication protocol for building automation and most deployed KNX has strong security features. (Yes/No)

Essay questions

1. Please discuss how the KNX protocol for home automation works.
2. Why does the KNX protocol in the lecture have no security?