

IoT Security and Privacy

IoT Survey

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. The three views of IoT are _____, _____, and _____.
2. The first definition of IoT comes from a “Things oriented” perspective, interconnecting simple Radio-Frequency Identification (RFID) tags. (Yes/No)
3. The ITU vision of the IoT is from anytime, anyplace connectivity for anyone, we will now have connectivity for anything. (Yes/No)
4. Enabling technologies of IoT include _____, _____, _____, and _____.
5. Based on power capability, we have three different RFID tags: _____, _____, and _____.
6. Middleware is a software layer or a set of sub-layers between underlying technological and application levels. (Yes/No)
7. Service Oriented Architecture (SOA) often takes a layered architecture. (Yes/No)
8. 6LoWPAN refers to IPv6 over Low-Power Wireless Personal Area Networks. (Yes/No)

Essay questions

1. Please describe Service Oriented Architecture (SOA).
2. Please discuss why hardware security is necessary for IoT security.