Secure Systems Architecture

Assignment 1: Feedback

Group 1

Please note: all feedback and marks are provisional and subject to change through moderation process.

General Comments:

The whole group of students have produced an excellent selection of topic, where students have produced brilliant findings of AD and appropriate AD have been designed.

Specific Feedback:

1. Compile a list of potential vulnerabilities (Knowledge, Understanding, Application & Criticality): It can be said that the students have presented an excellent knowledge and understanding of the subject matter. Brilliantly set the tone of the study and presented a list of potential vulnerabilities for the Smart Home and its associated IOT devices. Overall uses of application was brilliant, particularly using Microservices in the system. Most importantly, update setting interface and deploying breaching notifications are superb. However, there is opportunity to being more critical within the discussions.

2. Create an AD Tree (Knowledge, Understanding, Application & Criticality): The students have produced an excellent Attack Defence Tree with all the supporting nodes, measurements, and vulnerabilities mitigation options. Your AD tree surprisingly differentiate AND and OR relations in a limited scope. Besides, students could have created attacking wireless controller devices (optionally) along with measuring values.

3. AD Tree with Assigned Values and Justification (Criticality): The students have appropriately assigned all the values and made a crystal justification of the selection. However, overall criticality could have been improved.

4. Mitigation Actions to Vulnerabilities: Although students have produced a brilliant AD Tree and identified a list of brilliant vulnerabilities, and produced values of one-tailed t-test with accurate results but sadly there are no evidences of mitigation actions, which students could have elaborated some actions by explaining further.

Very well done to all of you!!!

Overall score: 80%