In20-S5-CS3053 - Computer Security

Dashboard

My courses

In20-S5-CS3053 (119075)

9 October - 15 October

Continuous assessment - Protection of information based on sensitivity and privilege levels

Continuous assessment - Protection of information based on sensitivity and privilege levels

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Write a program using C, C++, Java or Python to carry out medical data processing as follows:

- 1. The program writes into and reads from a configuration file the following parameters: user names, hashes of passwords (MD5), user type (patient or hospital staff category), privilege level of each user name (you need to assume appropriate privilege levels) (Note: you may use a comma separated records, XML, or similar. What is necessary is to somehow write into the file, and not necessary to focus on interfaces and how you do it in a fancy way)
- 2. The program writes into and reads from a data file the following data records: personal details, sickness details, drug prescriptions, and lab test prescriptions. Each data record is associated with a sensitivity level depending on its nature.
- 3. Each data record is due to an encounter with a patient
- 4. Hospital staff can read or write data based on account privilege level and sensitivity level of data

Actual source code need to be submitted, in its original form, as a zip file. As the objective is to test the ability to use the security concepts learned in this subject, use of ready-made libraries are not acceptable (however, you may use libraries or functions to compute MD5 hashes and no coding of your own is expected).

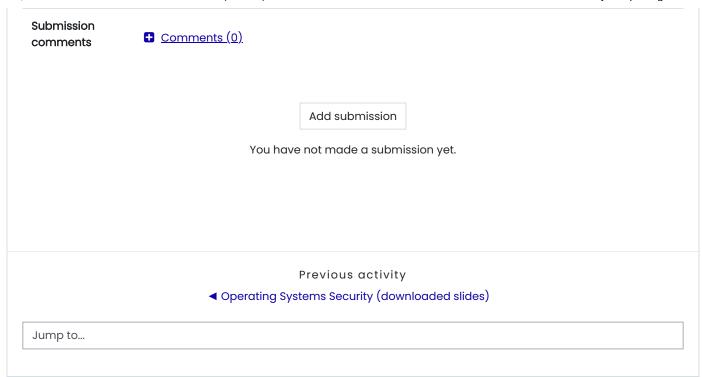
Further, submit a report with following sections:

- 1. The program code to carry out the above steps
- 2. A description of how you decided the access to data records based on sensitivity of data
- 3. Annexes: configuration file and data records file, important screen captures of program execution

Provide the above report of your work as a PDF file with a formal cover page. Report format is A4 Page, 1-inch margin, Times-New-Roman 12 pt font (for the descriptive sections), and single line spacing. Code can be in a suitable font.

Submission status

Submission status	No attempt
Grading status	Not graded
Due date	Friday, 20 October 2023, 12:00 AM
Time remaining	4 days 11 hours
Last modified	-



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□ Data retention summary

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