George Mason University 쇴 ISA 쇴 ISA 562 쇴 HW2.docx

# HW2.docx - ISA 562 Assignment 2 1 Exercise 3.9#1 The proof...

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ISA 562

Information Security, Theory and Practice.

# ISA 562 – Assignment 2

1. Exercise 3.9, #1.

The proof of Theorem 3-1 states the following: Suppose two subjects s1 and s2 all created and the rights in A[s1,o1] and A[s2,o2] are tested. The same test for A[s1,o and A[s1,o2] = A[s1,o2] U A[s2,o2] will produce the same result. Justify th statement. Would it be true if one could test for the absence of rights as well as for the presence of rights?

Ans.

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# Mason Review for Exam 2

- Subject matter:
- . Covers topics not included in Exam 1
- RBAC and Chinese Wall Policies
- Cryptography
- . Network Security and Authentication
- · Chapters from Bishop's book:
- 7, 9, 10, 11, 12
- . The nature of the exam:
- 4-5 questions
- . Similar to the homework.
- Pseudo-code, algorithms, protocols, etc.

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are checked for presence of rights.

Now considering the same test for say A[s1,o1] and A[s1,o2] (i.e,. A[s1,o1] A[s2,o2]) the check presents the same output as earlier as A[s1,o1] is same whereas cas of A[s1,o2] the matrix A[s2,o2] in the earlier case is added some rights to get A[s1,o2] So, hence the check as usual checks for presence of rights which are present in A[s1,o2] as in A[s2,o2] hence produces the same result.

Now if we check for absence pf rights. Say we are checking for a particulabsence of rights 'a' then on checking for it in A[s1,o1] and A[s2,o2], it might succee but it will not be the same result as checking A[s1,o2] as the absence of rights 'a' might be added to it and hence might fail

### 2. Exercise 4.11, #1.

In Figure 4-1, suppose that edge t3 went from s1 to s4. Would the resulting system be secure?

Ans. In the given system s1 and s2 are the only authorized states while s3 and s4 a unauthorized states.  $A = \{ s1, s2 \}$ ;  $UA = \{ s3, s4 \}$ 

The edge t3 actually goes from s1 to s3 and is not secure. Suppose it goes from s1 to s the system will still not be secure because s4 is an unauthorized state just like s3. Goir from s1 to s4 means going from authorized to unauthorized states, so the system will n be secure.

### 3. Exercise 4.11, #5.

Classify each of the following as an example of a mandatory, discretionary, or originator controlled policy, or a combination thereof. Justify your answers.

ISA 562: Hashes and Message Digests

Chapter 5 from Kaufmann et al.

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the Types (AA, 12) and AA, 12

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## a. The file access control mechanisms of the UNIX operating system.

Ans. It is Mandatory Access Control since the system controls access to an object ar permissions to users can also be controlled by system. Typically, the system mechanis will check information associated with both the subject and the object to determin whether the subject should access the object. It can also be Discretionary Access Contributes since users can give access to an object.

# b. A system in which no memorandum can be distributed without the author consent.

Ans. It is Originated Controlled Access Control since no memorandum can be distribute without the author's consent. Actually the owner of the file has no control over who may access, the main goal of this control is to allow the originator (author) of the file to

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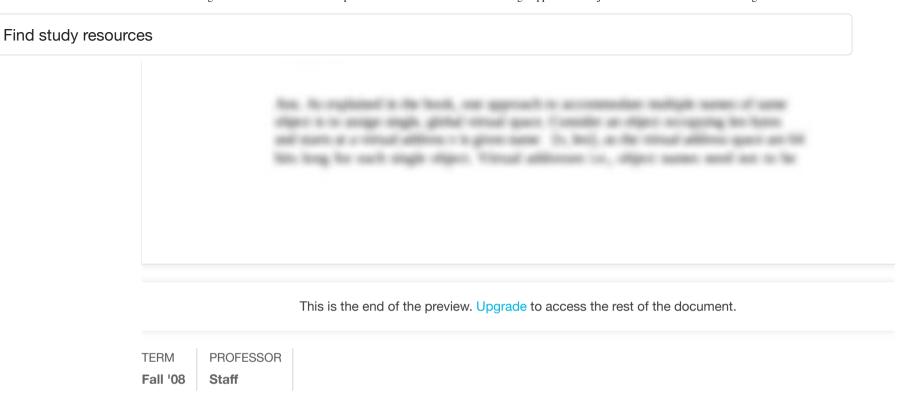
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