Quiz 2

Due Jan 13 at 11:59pm **Points** 15 **Questions** 11

Available Jan 12 at 12pm - Jan 13 at 11:59pm Time Limit 30 Minutes

Instructions

This guiz covers the objectives MO 9, MO 12, MO 13, MO 14 of Module 1:

- MO 9. Define Access Control Matrix and Protection State Transition. (CO 1)
- MO 12. Define the Safety Question. (CO 1)
- MO 13. Recall the answer to the Safety Question when only mono-operational commands are supported. (CO 1)
- MO 14. Recall the answer to the Safety Question in the general case. (CO 1)

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	12 minutes	15 out of 15

(!) Correct answers are hidden.

Score for this quiz: **15** out of 15 Submitted Jan 12 at 3:26pm This attempt took 12 minutes.

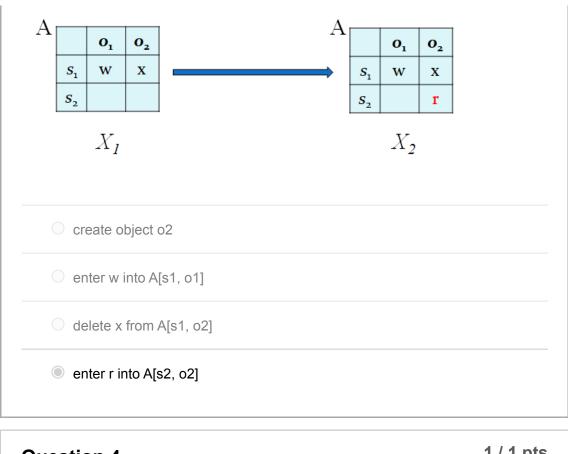
Question 1	1 / 1 pts
A table includes multiple objects and subjects and it identifies the specific access each subject has to different objects. What is this table?	
Access control list	

Question 2	2 / 2 nts
None of the above	
Creeping privileges	
Federation	
Access control matrix	

Which of the following is true about the Safety Question? It is always decidable It is about determining whether a protection system with an initial state is safe with respect to a generic right It is undecidable when only mono-operational commands are supported Being safe means an access right is leaked

Question 3 2 / 2 pts

What can be a command that causes the following protection state transition?



Question 4	1 / 1 pts
In an access control matrix, rows represent objects.	
○ True	
False	

Question 5	1 / 1 pts
Complete the following primitive operation, which is subject p over object f.	means adding right r for
enter r into	
A[p,f]	

Question 6	1 / 1 pts
In an access control matrix, columns represent objects.	
True	
False	

Complete the following primitive operation, which means deleting the column for object h from the ACM.

_____ object h

destroy

Question 8

The Safety Question is decidable on modern systems such as Windows, Mac OS, and Linux.

True

False

 Question 9
 2/2 pts

 What the following primitive operation does to the ACM:

 enter r into A[S₁, O₂]

 Creates subject S₁; creates object O₂

 Adds r right for subject S₁ on object O₁

 Adds objects O₂ to all subjects in the matrix

Question 10 2 / 2 pts

For the command below, which of the following statements is true:

command grant.excute.file.1(p, f, q)

if own in A[p, f]

then

enter x into A[q, f];

end

- Let p give q x right over f, if p owns f
- Let q give p x right over f, if q owns f
- Let p give q x right over f, if p owns f and p has c rights over q
- Let q give p x right over f, if q owns f and q has c rights over p

Question 11	1 / 1 pts
An algorithm can determine if a protection system safe with respect to a generic right <i>r</i> if the system mono-operational commands:	•
O True	
False	

Quiz Score: 15 out of 15