CS-492-01 Spring 2024

Protocol self-quiz

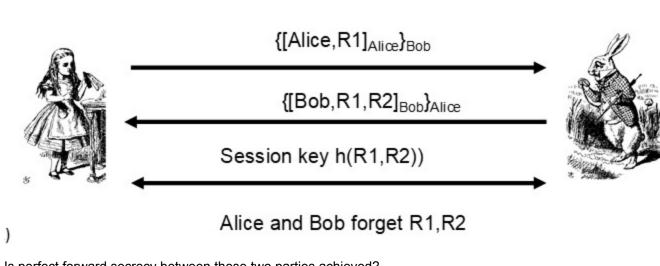
Review Test Submission: Protocol self-quiz

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User	Matthew LaChapelle
Course	Spring 2024 Computer Security (CS-492-01, CYS-492-01)
Test	Protocol self-quiz
Started	5/7/24 5:40 PM
Submitted	5/7/24 5:44 PM
Status	Completed
Attempt Score	20 out of 60 points
	3 minutes

Results Displayed All Answers, Submitted Answers, Correct Answers, Feedback, Incorrectly Answered Questions

Question 1 10 out of 10 points



Is perfect forward secrecy between these two parties achieved?

Selected Answer: 🚫 No

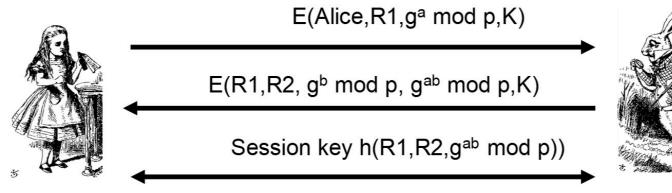
Answers: Yes

No

Response Feedback: Correct

Question 2 0 out of 10 points





After Alice and Bob forget R1,R2, a, & b

Where is Bob authenticated?

Selected Answer: 👩 No, Bob is never authenticated

Answers: Yes, by message 1

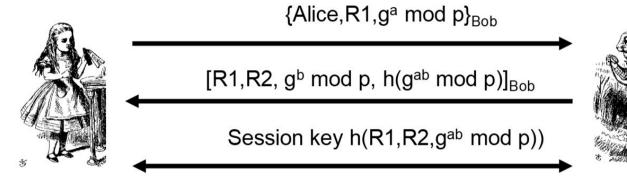
Yes, by message 2

Yes, if he is able to send a message with the session key

No, Bob is never authenticated

Question 3 0 out of 10 points





Alice and Bob forget R1, R2,a and b

Where is Bob authenticated?

Selected Answer: Nes, if he is able to send a message with the session key

Answers:

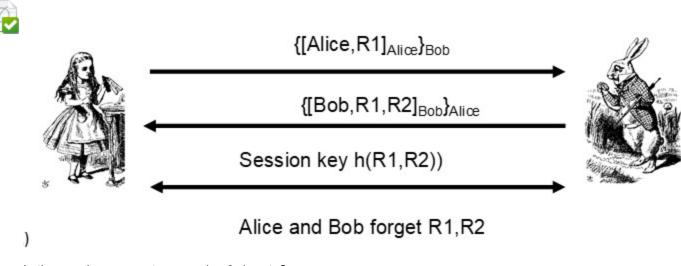
Yes, by message 1

Yes, by message 2

Yes, if he is able to send a message with the session key

No, Bob is never authenticated

Question 4 10 out of 10 points



Is the session secure to a passive 3rd party?

Selected Answer: 🤡 Yes

Answers:

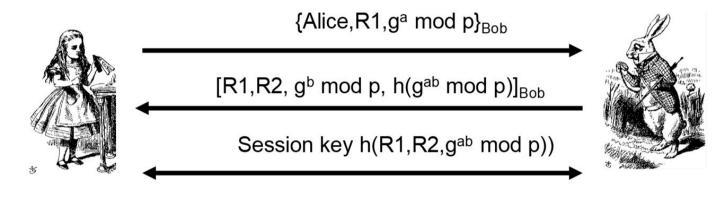
Yes

No

Response Feedback: Correct

Question 5 0 out of 10 points





Alice and Bob forget R1, R2,a and b

Where is Alice authenticated?

Selected Answer: 2 Yes, if she is able to send a message with the session key

Answers: Yes, by message 1

Yes, by message 2

Yes, if she is able to send a message with the session key

No, Alice is never authenticated

Question 6 0 out of 10 points





E(Alice,R1,ga mod p,K)

 $E(R1,R2, g^b \mod p, g^{ab} \mod p, K)$

Session key h(R1,R2,gab mod p))



After Alice and Bob forget R1,R2, a, & b

Is perfect forward secrecy between these two parties achieved?

Selected Answer: 😢 Yes

Answers:

No

Yes

Response

No. If Trudy recorded this conversation and later recovered Alice and Bob's private keys she could recover everything to recreate the session key and decrypt the entire conversation.

Feedback: recover everything to recreate the session key and decrypt the entire conversation.

Tuesday, May 7, 2024 5:44:04 PM EDT

← ok