

CSE-447 Assignment - 04

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Section: 01

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Date of Submission: 29th August 2023

Ans. To The Q. No.1

Thoudy can use a man-in-the-middle (MIM) attack to intercept the messages being sent between Alice and Bob and then relays them back to each of them, pretending to be the other party. Once Trudy has intercepted the messages, he can't extract public tess of Alice and Bob other use it to forge messagess. When Bob recives this message , he will think it's from Alice and use the encryption key to decrypt it. In this way, troudy can caresdoop on the communication between Alice and Bob.

Ans. To The Q. No. 2

(4)

Alice's browser Will issue a warning that the certificate verification has failed and dive Alice the option to stop on continue.

If Alice chooses to stop

that mim attack Will fail.

If Alice chooses to continue after the browser warning, the attack will succeed.

Anz. To The Q.No.3

TGT is a ticket that is issued by key

Distribution Center (KDC) to a user. It

allows the user to request tickets

for other services, such as file shares

or printers in a network. Every

TGT is encryted with kree scenet

tey, so only the KDC can read it.

(6)

The TGT sent to Alice so that she can use it to pequest tickets for otner services. If the TGT was stored on the kDC, Alice would have to log in to the kDC every time she wanted to access a service. This would be

inconverient and rould also be 1

(C)

the TGT is encrypted with Alice's

key ka so that only Alice decrypt

it. This prevents an attacker

from intercepting the TGT

and use it to authenticate