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ISC Certified Information Systems Security Professional (CISSP) Sample Questions (Q422-Q427):

NEW QUESTION # 422

Like the Kerberos protocol, SESAME is also subject to which of the following?

- A. timeslot replay

- B. asymmetric key guessing
- C. symmetric key guessing
- D. password guessing

Answer: D

Explanation:

Sesame is an authentication and access control protocol, that also supports communication confidentiality and integrity. It provides public key based authentication along with the Kerberos style authentication, that uses symmetric key cryptography.

Sesame supports the Kerberos protocol and adds some security extensions like public key based authentication and an ECMA-style Privilege Attribute Service.

The users under SESAME can authenticate using either symmetric encryption as in Kerberos or Public Key authentication. When using Symmetric Key authentication as in Kerberos, SESAME is also vulnerable to password guessing just like Kerberos would be.

The Symmetric key being used is based on the password used by the user when he logged on the system. If the user has a simple password it could be guessed or compromise. Even though Kerberos or SESAME may be used, there is still a need to have strong password discipline.

The Basic Mechanism in Sesame for strong authentication is as follows:

The user sends a request for authentication to the Authentication Server as in Kerberos, except that SESAME is making use of public key cryptography for authentication where the client will present his digital certificate and the request will be signed using a digital signature. The signature is communicated to the authentication server through the preauthentication fields. Upon receipt of this request, the authentication server will verify the certificate, then validate the signature, and if all is fine the AS will issue a ticket granting ticket (TGT) as in Kerberos. This TGT will be used to communicate with the privilege attribute server (PAS) when access to a resource is needed.

Users may authenticate using either a public key pair or a conventional (symmetric) key. If public key cryptography is used, public key data is transported in preauthentication data fields to help establish identity.

Kerberos uses tickets for authenticating subjects to objects and SESAME uses Privileged Attribute Certificates (PAC), which contain the subject's identity, access capabilities for the object, access time period, and lifetime of the PAC. The PAC is digitally signed so that the object can validate that it came from the trusted authentication server, which is referred to as the privilege attribute server (PAS). The PAS holds a similar role as the KDC within Kerberos. After a user successfully authenticates to the authentication service (AS), he is presented with a token to give to the PAS. The PAS then creates a PAC for the user to present to the resource he is trying to access.

Reference(s) used for this question:

<http://srg.cs.uiuc.edu/Security/nephilim/Internal/SESAME.txt>

and

KRUTZ, Ronald L. & VINES, Russel D., The CISSP Prep Guide: Mastering the Ten Domains of Computer Security, 2001, John Wiley & Sons, Page 43

NEW QUESTION # 423

What can be defined as a digital certificate that binds a set of descriptive data items, other than a public key, either directly to a subject name or to the identifier of another certificate that is a public-key certificate?

- A. An attribute certificate
- B. A digital certificate
- C. A descriptive certificate
- D. A public-key certificate

Answer: A

Explanation:

Explanation/Reference:

Explanation:

The US American National Standards Institute (ANSI) X9 committee developed the concept of attribute certificate as a data structure that binds some attributes values with the identification information about its holder.

According to RFC 2828 [24], an attribute certificate is "a digital certificate that binds a set of descriptive data items, other than a public key, either directly to a subject name or to the identifier of another certificate that is a public-key certificate.

One of the advantages of attribute certificate is that it can be used for various other purposes. It may contain group membership, role clearance, or any other form of authorization.

Incorrect Answers:

A: An attribute certificate can be used to supplement a public-key certificate by storing additional information or attributes.

However, an attribute certificate, not a public-key certificate is what is described in the question.

C: A digital certificate is another name for a public key certificate. It is an electronic document used to prove ownership of a public key. This is not what is described in the question.

D: A descriptive certificate is not a defined certificate type.

NEW QUESTION # 424

Cryptography does NOT concern itself with which of the following choices?

- A. Integrity
- B. Confidentiality
- C. Validation
- **D. Availability**

Answer: D

Explanation:

Explanation/Reference:

Explanation:

Cryptography ensures the integrity of data, the confidentiality of the data and the validation of the sender and receiver of the data.

Cryptography does not ensure the availability of the data.

Modern cryptography concerns itself with the following four objectives:

1. Confidentiality (the information cannot be understood by anyone for whom it was unintended)
2. Integrity (the information cannot be altered in storage or transit between sender and intended receiver without the alteration being detected)
3. Non-repudiation (the creator/sender of the information cannot deny at a later stage his or her intentions in the creation or transmission of the information)
4. Authentication (the sender and receiver can confirm each other's identity and the origin/destination of the information.

Incorrect Answers:

B: Cryptography does concern itself with integrity of data.

C: Cryptography does concern itself with confidentiality of data.

D: Cryptography does concern itself validation (of the source and destination of the data).

References:

<http://searchsoftwarequality.techtarget.com/definition/cryptography>

NEW QUESTION # 425

Which term below MOST accurately describes the Trusted Computing Base (TCB)?

- A. A piece of information that represents the security level of an object
- **B. The totality of protection mechanisms within a computer system**
- C. A computer that controls all access to objects by subjects
- D. Formal proofs used to demonstrate the consistency between a systems specification and a security model

Answer: B

Explanation:

The Trusted Computing Base (TCB) The totality of protection mechanisms within a computer system, including hardware, firmware, and software, the combination of which is responsible for enforcing a security policy. A TCB consists of one or more components that together enforce a unified security policy over a product or system. The ability of a trusted computing base to correctly enforce a security policy depends solely on the mechanisms within the TCB and on the correct input by system administrative personnel of parameters (e.g., a users clearance) related to the security policy.

*Answer "A computer that controls all access to objects by subjects" describes the reference monitor concept. The reference monitor is an access control concept that refers to an abstract machine that mediates all accesses to objects by subjects. The Security Kernel consists of the hardware, firmware, and software elements of a Trusted Computing Base (or Network Trusted Computing Base partition) that

implement the reference monitor concept. It must mediate all accesses, be protected from modification, and be verifiable as correct.

*Answer "A piece of information that represents the security level of an object" refers to a sensitivity label. A sensitivity label is a piece of information that represents the extra security level of an object and describes the sensitivity (e.g., classification) of the data in the object.

Sensitivity labels are used by the TCB as the basis for mandatory access control decisions.

*Answer "Formal proofs used to demonstrate the consistency between a systems specification and a security model" describes formal verification. This is the process of using formal proofs to demonstrate the consistency (design verification) between a formal specification of a system and a formal security policy model or (implementation verification) between the formal specification and its program implementation. Source: DoD 5200.28-STD

Department of Defense Trusted Computer System Evaluation Criteria

NEW QUESTION # 426

Which of the following BEST describes how access to a system is granted to federated user accounts?

- A. With the federation assurance level
- B. With the identity assurance level
- C. Based on defined criteria by the Identity Provider (IdP)
- D. Based on defined criteria by the Relying Party (RP)

Answer: D

Explanation:

In a federated identity system, access is granted by the Relying Party (RP) based on the identity and attributes asserted by the Identity Provider (IdP). The RP defines the criteria and policies (e.g., required roles, group memberships, assurance levels) for granting access to its resources.

NEW QUESTION # 427

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