

COMPUTER SECURITY STRATEGY

SUMMARY

Matched Branch: 0
Partially Matched Branch: 0
Mismatched Branch: 16
Extra Branch: 1
Total Match: 3.92 %
Concept Match: 3.12 %
Link. Phr. Match: 5.26 %
Misconception: 100.0 %
Hierarchy Match: 0.0 %

Grade: 1.29%

aspects of security strategy

Implementation and Mechanisms

illustrated by

Method used by the security scheme

portrayed by

Security Implementation

involves these four complementary courses of action

Prevention

Response

Detection

Recovery

for example

Secure Encryption Algorithms

with the result of

Prevent unauthorized access to encryption keys

with the purpose of

Upon detection, being able to halt an attack and prevent further damage

for instance

Intrusion Detection Systems (IDS)

with the purpose of

Detection of denial of service (DoS) attacks

for instance

Use of backup systems

Correctness and Assurance

characterized by

Viability of security scheme

composed of

Assurance

encompasses

Both the system design and system implementation

defined by

Degree of confidence one has that the security measures work as intended to protect the system and the information it processes

Specification and Policy

represented by

Purpose of the security scheme

elaborated by

Security Policy

Evaluation

involves

Testing and formal analytic or mathematical techniques

described by

Process of examining a computer system with respect to certain criteria

depicted by

Formal statement of rules and practices that specify or regulate how a system or organization provides security services to protect sensitive and critical system resources

considering these trade-offs

Ease or use versus security

Cost of security versus cost of failure and recovery

deliberating these factors

Potential threats and the likelihood of attacks

Value of the assets being protected

Vulnerabilities of the system