



SNS COLLEGE OF ENGINEERING

Kurumbapalayam(Po), Coimbatore – 641 107

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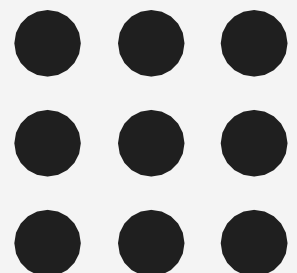
DEPARTMENT OF INFORMATION TECHNOLOGY

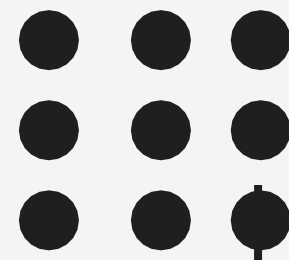
Course Code and Name : 19IT602– CRYPTOGRAPHY AND CYBER SECURITY

III YEAR / VI SEMESTER

Unit 1: INTRODUCTION TO NETWORK AND CYBER SECURITY

Topic : Security Policies



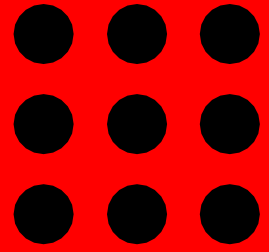


Why do we do all the below?



Security



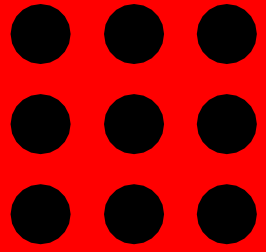


How to develop a Policy



- Identify sensitive information and critical systems
- Incorporate local, state, and federal laws, as well as relevant ethical standards
- Define institutional security goals and objectives
- Set a course for accomplishing those goals and objectives
- Ensure that necessary mechanisms for accomplishing the goals and objectives are in place





What does a Security Policy include?



- What is the reason for the policy?
- Who developed the policy?
- Who approved the policy?
- Whose authority sustains the policy?
- Which laws or regulations, if any, are the policy based on?
- Who will enforce the policy?
- How will the policy be enforced?
- Whom does the policy affect?



What does a Security Policy include?

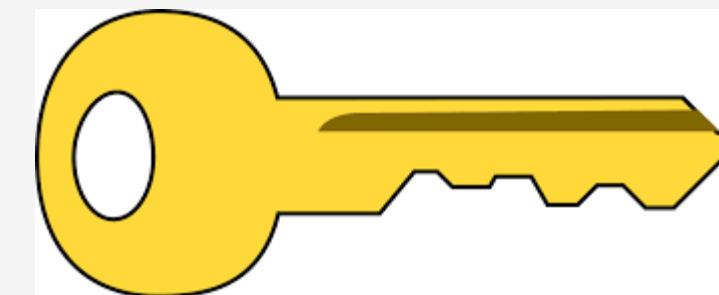
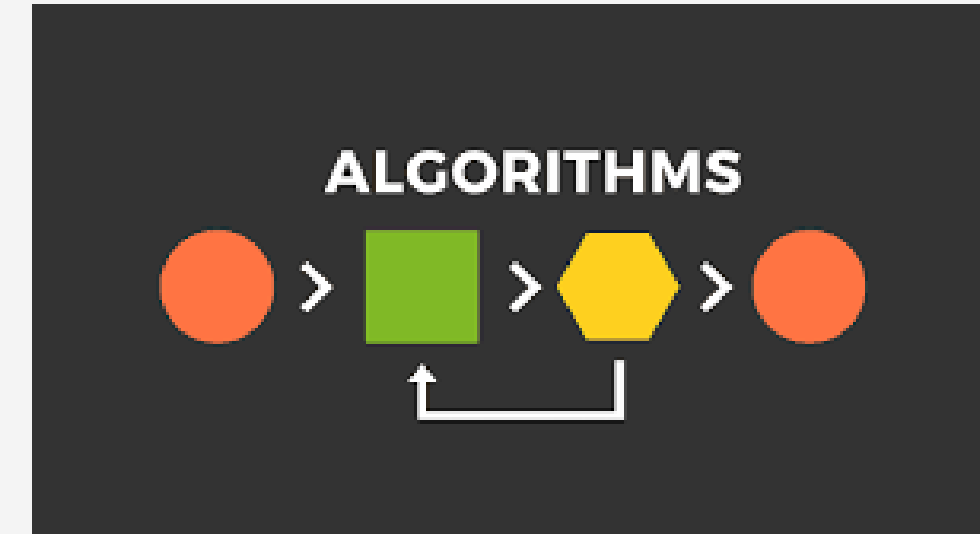


- Be **concise**--focus on expectations and consequences, but explain the underlying rationale when appropriate
- **Don't temper** the message--truth is, you're not asking but telling, so don't propose, suggest, or insinuate unless that is specifically what you mean to do
- Use **simple, straightforward language** as is possible
- **Define** any **term** that could potentially **confuse** a reader--no need to make things more difficult than need be
- Be **creative--presentation** should never interfere with content, but checklists and reference cards increase utility



Four basic tasks in designing a particular security service

- Design a suitable algorithm for the security transformation
- Generate the secret information (keys) used by the algorithm
- Develop methods to distribute and share the secret information
- Specify a protocol enabling the principals to use the transformation and secret information for a security service





References

- William Stallings, Cryptography and Network Security: Principles and Practice, PHI 3rd Edition, 2006.
- Behrouz A. Foruzan, Cryptography and Network Security, Tata McGraw Hill 2007.