



# Protection and Security

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# Definitions

- **Security**: policy of authorizing accesses
  - Prevents intentional misuses of a system
- **Protection**: the actual mechanisms implemented to enforce the specialized policy
  - Prevents either accidental or intentional misuses

# [ Security Goals ]

- ***Data confidentiality***: secret data remains secret
- ***Data integrity***: unauthorized users should not be able to modify data
- ***System availability***: nobody can make a system unusable