

# Network Security

## Exercises Question 3

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### **Explain the difference between security services and security mechanisms.**

A **security service** describes the whole process of ensuring one of the goals of network security (or security in general). A **security mechanism** describes one single component of this security service, which aims at increasing security or decreasing loss of a breach. Thus, the relation between a security service, and a security mechanisms can be stated as follows: A **security service** tries to secure communication or data by employing one, or many **security mechanisms** A few examples for **Security Services**

- Authentication and Authorization
- Encryption
- Physical Device Security and Access Restrictions

A few examples for **Security Mechanisms** (corresponding to the above security services):

- OAuth2.0 or JWT
- RSA Encryption
- Physical locks on doors to the server room