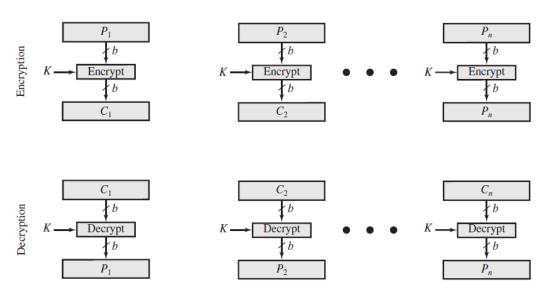


Figure 2.1 Simplified Model of Symmetric Encryption

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(a) Block cipher encryption (electronic codebook mode)

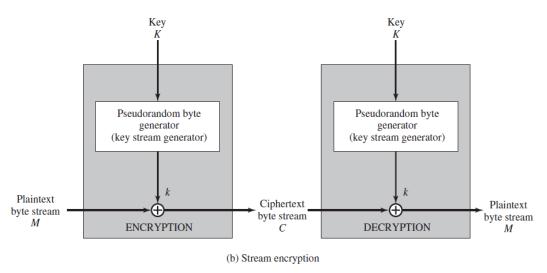


Figure 2.2 Types of Symmetric Encryption

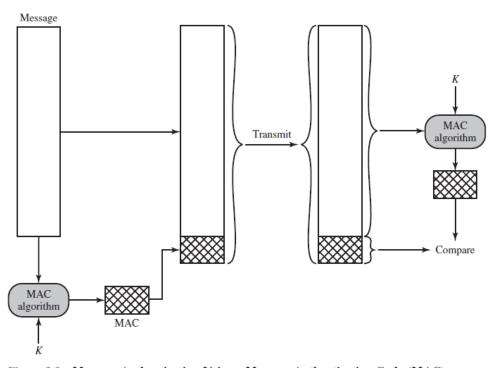
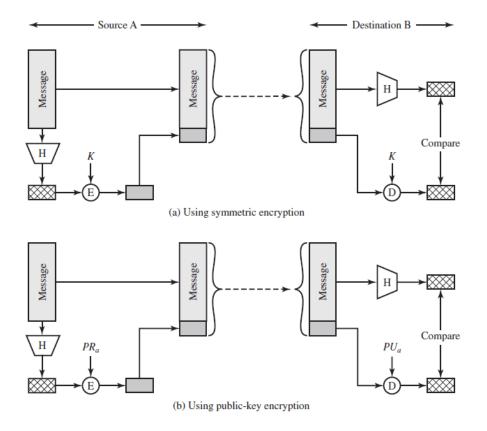


Figure 2.3 Message Authentication Using a Message Authentication Code (MAC)

Authentication approaches other than mac



(b) Using public-key encryption

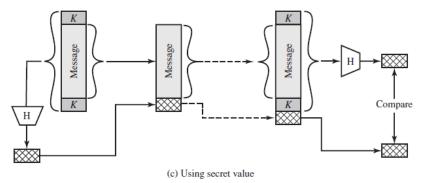
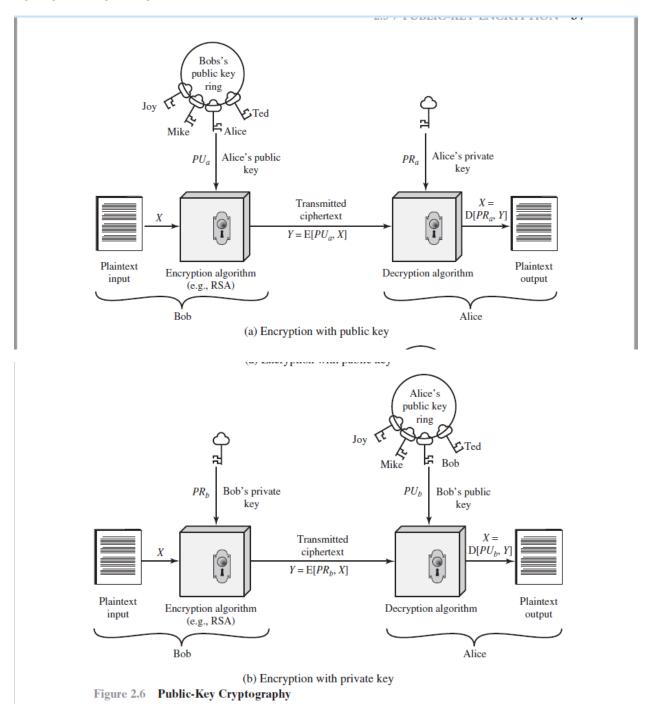


Figure 2.5 Message Authentication Using a One-Way Hash Function



First is related to confidentiality, 2<sup>nd</sup> is for integrity

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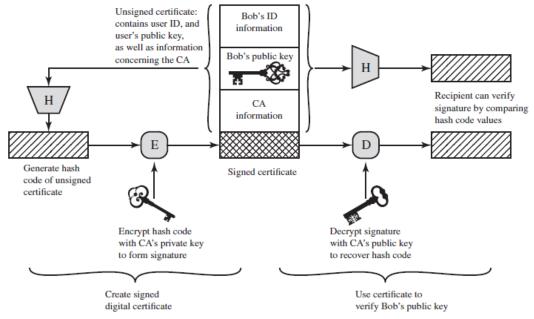
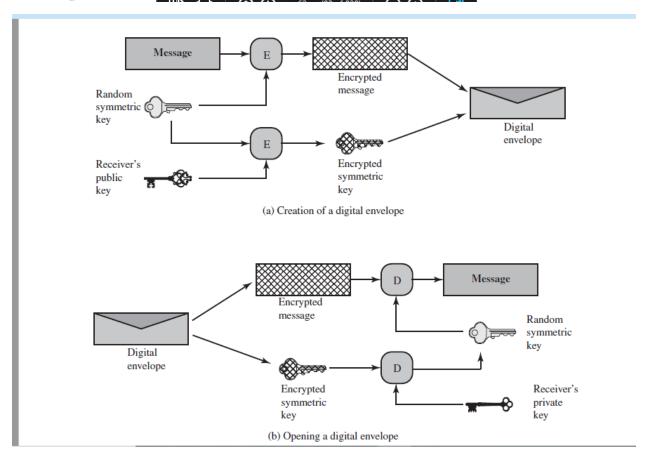
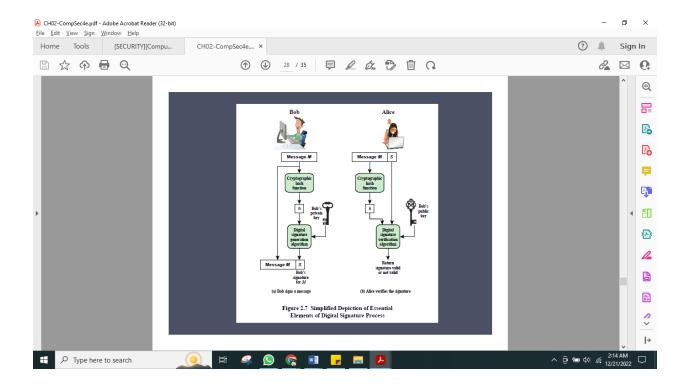


Figure 2.7 Publication of the control of the contro





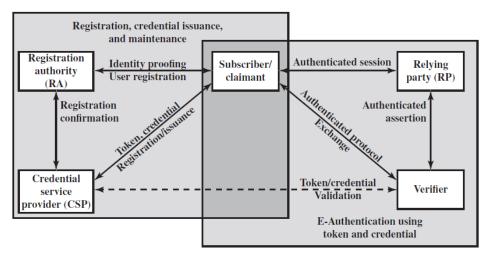
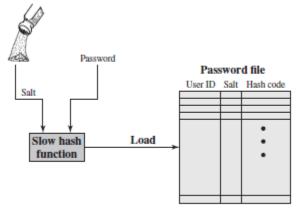


Figure 3.1 The NIST SP 800-63-2 E-Authentication Architectural Model



(a) Loading a new password

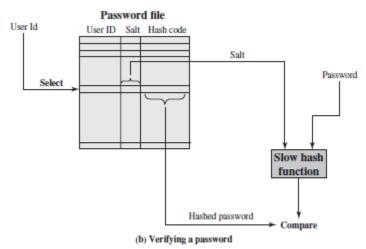


Figure 3.2 UNIX Password Scheme

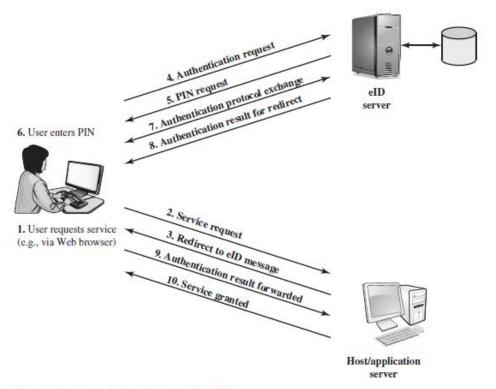
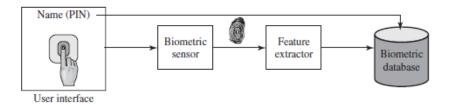
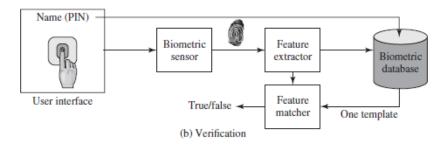
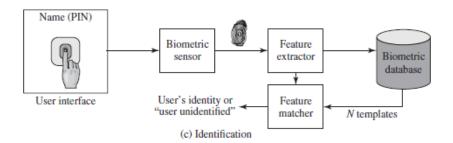


Figure 3.6 User Authentication with eID



(a) Enrollment





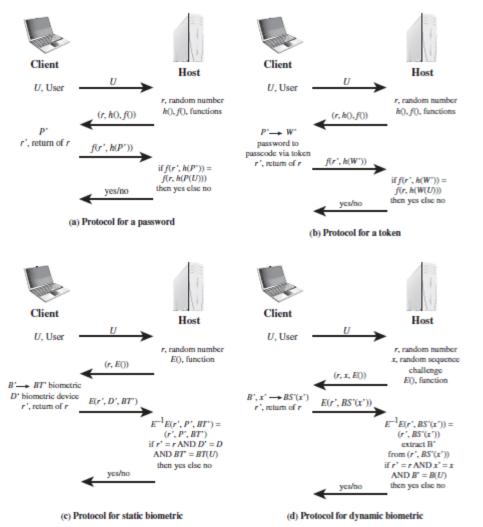
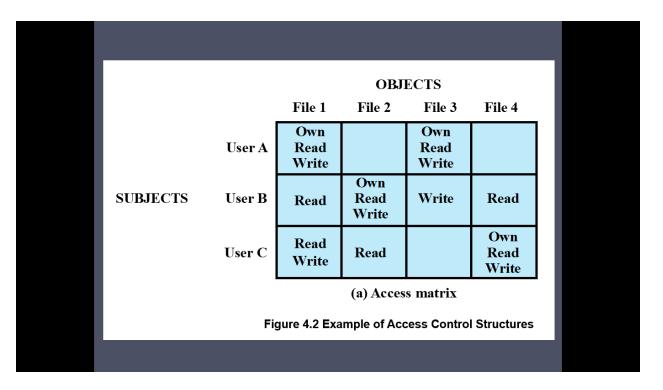
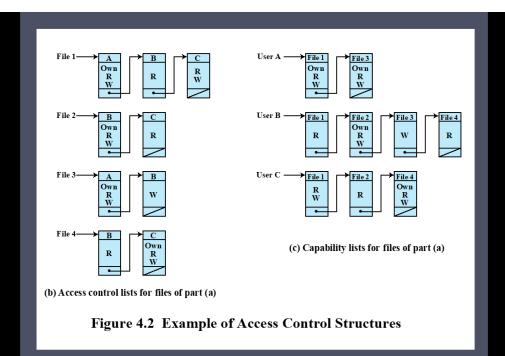


Figure 3.12 Basic Challenge-Response Protocols for Remote User Authentication Source: Based on [OGOR03].





Subject	A ccess Mode	Object	
A	Own	File 1	Tak
A	Read	File 1	
A	Write	File 1	
A	Own	File 3	Auth
A	Read	File 3	ר
A	Write	File 3	
В	Read	File 1	for Fig
В	Own	File 2	Fig
В	Read	File 2	118
В	Write	File 2	
В	Write	File 3	
В	Read	File 4	
С	Read	File 1	
C	Write	File 1	
C	Read	File 2	
С	Own	File 4	
С	Read	File 4	(T-1-1- :
С	Write	File 4	(Table is on page

Table 4.2

Authorization Table for Files in Figure 4.2

(Table is on page 113 in the textbook)

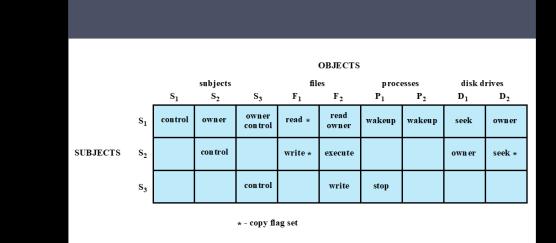


Figure 4.3 Extended Access Control Matrix

