Esecurity: secure internet & e-passports, summer 2011

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6. Exercise sheet Hand in solutions until Sunday, 15 May 2011, 23:59

Exerc	cise 6.1 (IKEv2 parameter).	(4 points)	
(i)	Read RFC 5996.		
(ii)	Which block cipher algorithms can be used in IPsec/IKEv2?		1
, ,	Describe the groups for the Diffie-Hellman key exchange that can IKEv2.	an be used	3
Exerc	cise 6.2 (IPsec and IKEv1 criticism).	(8 points)	
,,	At http://www.schneier.com/paper-ipsec.html you IPsec and IKEv1 criticism of Niels Ferguson and Bruce Schne and summarize it. (What are their recommendations? What major reasons? Do they say whether IPsec/IKE is secure or how it secure?)	eier. Read t are their	4
(ii)	Reconsider their arguments in the presence of IKE version 2 discussed in the course).	2 (that we	4
Exerc	Exercise 6.3 (SSL and SSH). (6 points)		
Choose whether you consider TLS/SSL or SSH for this exercise.			
(i)	Where is your chosen protocol located in the OSI-model? What and cons of this placement?	at are pros	2
(ii)	How is the start of a communication specified and how is the change done in your chosen protocol?	ne key ex-	4