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DSA specifies that if the signature generation process results in a value of S=0,
a new value of K. Should be generated and the standard be
recalculated. Why?
=> Karena saat penggung menghasilkan signature dengan nilai S=0, matca secarz
tizlak conoxic totah menanyakapkan kunci private x ke persamaan.
Large of the first
S = ((th (M) + xr)) mod 9 1 x = - H(M) = mod 9.
After distriction that the second of the Boolea to
Dimana M dan r dapat diperoich dasi pesan melgiui Jamnsan. Dan 9 adaiah
Komponen yang berijat public global yang mane dapat diketahui samus orang
Shingsa, nijai ban ki akan digenerate dan dihitung wang Signaturenye. Dikarenakan
traak mungton inai dazi r=0 atau s=0 sika signaturenye benar.
What happens if all k value like m creating a DSA Signature is compromised?
=> Kunci private dazi uver di kompromikan jika mai te ditemukan:
$S = (K-1)(H(M) + XL)) \mod Q \Rightarrow X = \frac{K-HM}{K-HM} \mod Q$
CEST SEL SE CONTRACTOR
Niligi HCM) Troso dapato diperoleh divi pesan merarui jaungan dan a merupatan
Komponen berritat public global Maka ziku niai to diketahui, akan mudah
meng etahui Kanci private X
2 grad on 12000 display 400001 - 37135650 - Field - of 43
3] In an REA disital stylnature scheme, both signs mussage vi and sonds them together
with the signatures st and her public key to Alice. Bob's public key is the pair
(n.e); her provate key is di Oscar can perform man- m-the-middle-attacts,
i.e., he can replace Bob's public bery by his own on the channer. His goal
1) to alter mescages and provide these with a divital figurature which will check
out correctly on Aure's size, show everything that organ must do for a successful
attack.
=> Tang hums dilahukan oleh Oscar:
0) Oscar menoring pesan anture Bob and Ayre
0) Peran yang ditanna, atan drubuh oleh oscar dun munandatangani peran terrebut
denson private key Jang milih oscar
or Kemudan, oscar akun munsimm peran ban yang telah dirubuh dan yang telah
olitumbah clonson signature clan pubur kay sesuai [e!, n') dari eri Aice
(yang salah satunya dari Oscat)
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The signature of the message 15 x 2 10 verify the signature of the message 15 x 2 10 to verify the signature of the message 15 E banky our morning andwards that $\dot{q} = (\alpha =) \dot{h} = \alpha \pi$ mod \dot{q} . 5050 = (MADA , 551 = X) . a) show that this scheme works. That is show that the verification process produces an equality if the exquature is vaived Ly Untuk mem ventiteusi erynature, inser mem ventiteur bahwa (gz) h = grimod P. (187 - 1976) (= 1957 Sinky (= (3117) b) Show that the schume is unacceptuble by describing a simple technique for progray a user's engineering on on directory message to Ly Untuk manaxutikan signatur pada pesan difemulan hashiya hi-law, mod (p-1). Kenvetzin , q 4h = g. Jadi diliture y more momentum yh = 1 gryh = g mod p. Sehinssa (h, grh) adaigh signature yours vourd dan lawan dapat 23 (4 - (x) pis , essy = x) (i minghitung 9 my schagai (9 m) y. (4 1011) X & 81X) NB (7 TRIP (2014) ESSU 3 181 (2014)