## Kryptografi

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KSA (Key Scheduling Algorithm)

Inisilisas: 1 So = Si ... Szer = 255

Key = Sopulcas -> length key = 8

Iteras Ke-0

i=0 j=0 8=115

J= (j+ SCi] + + [i mod len (x)] mod 216

35 pom [[B 60m 0] x+0+0)=

= (0 + k [0]) mag see

= (0+112) mad see

= 115 mod 256

= 117

(wap = S Ci], S[j] = S [0], S[115] S = 115,2,11,5,6,7, ..., 114,0,116, ..., 255

Herosi Ke-1 i=1 ]=115 a=97 j = (j + S[i] + K[; mod len [=]) mod 256 = (112+1+ + [i mod 8]) mod 520 = ( 116 + K [1]) MOd 256 = (116 + 97) mod 256 213 mod 256

= 213 Swap = & [i], S(j], = S[13, S[213] = 115, 213, 3, 4 5, ..., 114, 0, 116 212,1,2 ... , 255

Itorasi Ke-2 i=2 j=213 P=112 i= (1 + 5 Ci ] + + Ci mod len (x) I mod 276 = (512 + 5 + K (5 mod 87) mod 526 = (512 + K [5]) mog sep = ( 512 + 115) mod SEC = 327 mod 256 1 = 71 Swap = 8 [1] , 5 [] 2, 5 [2] , 5 [71] S = 115, 213, 71, 3, 4, 5, ..., 70, 2, 72, ..., 114, 0, 116 , .... 212 Iterasi Ke-3 1=3 1=71 U=117 J = (j + 801 + + [i mod len CK)] mod 256 = (71 +3 + K[3 mod 8]) Mod 256 = 74 + K [3]) mod 256 = (74 + 117) mod 256 7 = 191 = 191 may 25 t

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Sual = SCi3, sCj3 = SC33, S[191]
S=115, 213, 71, 191, 4,5, ..., 70,2,73,..., 114,0,116,
    .... , 190 , 3 , 192, .... , 212 , 1 , 214 , ... , 255
iterasi ke-4
1=4 J=191 E=116
1 = (3+8(i] + K[i mod len [k] mod 216
  = (191 + 4 + K [4 mod 8 ]) mod 206
   = (195 + 116) mod 256
  = 311 mod 256
   1 = 55
Sway = SCIJ, SCJ] = SC4], 5 C55 ]
8 = 115, 213, 71, 191, 55, 5, ...., 54, 4, 56, ..., 70, 2, 72, ....
   114,0,116,..., 190,3,192, .... 212,1,214, ..., 255
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Iteras: Ke-5 1=5 ]=55 [= 114 J= (J+ SCIJ+ K [i mod lon C+J) mod 286 =(22+2+ K[2 mod 8) mod 326 = (co + 114) mod 256 = 174 mad 256 7= 174 Swap = SIIJ, SIJJ = S(S), 5 [174] 8 = 15,213,71,191,55,174,6,...,54,4,56,...,70, 2,72, ..., 114, 0, 116, ..., 190, 3, 192, ..., 212, 1, 214 1... 255 Itorasi Ke-6 1=6 J=174 a=g7 J= (j+i+ K[i mod len [x]) mod 256 = (174+6+ K[6 mod 8]) mod 256 200 tom (FC + 081) = = 277 mod 256 1 = 21

## ENOS = 8 CI) '2 CI] = 2 [6] '2 (51) 8= 115,213, 71, 191, 55,74,21,7, ..., 20,6,22,..., 24,4,56 10.5.45 .... 1410 119 .... 173 2 HZ .... 180.3, 105 255 ... , 212 , 1, 215 lterar kg. 7 1=7 3=21 1=49 j= (128 Ei] + Ei mod len (K) mod 256 for bow (8 pom + ] x + f + 45) = = (28 + 49) mad 246 325 pain ff = [ FF = C Swap = 8 Ci], 8 Ci] = 8 C+3, 8 L77] 8= 115, 213, 71, 19, 155, 74, 21, 77, 8 ..., 20, 6, 22, 54, 4, 56, ..., 70, 2, 72, ..., 76, 7, 78, ..., 114, 0, 116, --, 173, 5, 175, ..., 190, 3, 192, ..., 212, 1, 214 ..., 255

Salap = 8[1] & [1] & [213] 7 = (S[1] + S[3]) mod Ut6 U = 8 [t] = (1 + 213) mod 256 = 219 mod 256 t = 214 -> = 8 [ 214 ] C=U D P [0] = 214 02 => Bincircy => 214 => 11010110 00110010 11100100 -> 220 => Iterasi ke-z i=(1+1) mod 26 = 2 mod 256 for Index = 0 to 4 1= (i+1) mod 206

Iterasi Ke-3 1=2 ]=28 for 1dx = 0 to 4 do 1 = (5+1) mod 526 i = 3 mod 256 1 = 3 J = (J + & [i]) mod 356 = 58+181) way Ste = 219 mod 25 E 3 = 219 8wap = 8 [i], S [i] = 8 [3], 8 [219] L= (S [3] + S [219]) wood 256 = (219 + 191) mod 256 = 410 mod 256 = 154 U = 8 [154] 10011010 C=U00 0 0 11 00 00 , Dec = 170 167D 010101

Iterasi ke-4 1=3 ] = 219 For 1dx = 0 to 4 do 1= (341) mod 256 3 = ( ] 4 S [i] mod 256 = (219 + 55) mod 256 = 274 mad 056 81 = [ Essay = 8 [1], 8 [1] = 8 [4], 8 [1] + = (S[4] +5[18]) mod 256 = (18 +22) mod 216 = 73 U = 8 ( 73 C 2 U & P [3] = 73 0 7 Binarry = 10011010 De simal: 173 00110111 0 ascii = i 10101101

Iterasi Ke-2 1=4 )=18 For 1dx = 0 to 4 do 1 = (4+1) mod 256 = 5 325 pam (AFI + BI) = j - 192 mod 256 => 3 = 192 Swax = 8 [i ], 8 [j] = 5 [5], 8 [192] t = (192+174) mad 256 -(366) mod 206 f = 110 U = & [ 110] 110 Q 7 C = U & P [A] = 0110 1110 @ Dosimal = 84 00110111 Ascii = Y ( Kapitai) 01011001