

Think Encryption occurren data by enercypting and decrypting information at every node on network owitch it painten through reather just at the end pointr. This ensures that all data including headers and routing inforemation is protected Dinadvantige: Maso Soutah & Mennage duprypt 20,900 221 & Address MAIN TO MITTEN Header (2001) GOAT Memorage Minercable 201 Mety, Moder Tink To a Firtur Key THE 14 DOB ZEG > End To End Energy (ESEE) > Mennage travel the network without being darypted. Advantage: O Router powitchen and networks operation can't Dee your data. O Protecto your date pro From expoduoppino (Ullyprio) Even it the network 'y inscence. (III) Lepro Key management compared to link enercyption. only one Key per pender receiver poin.

Uning Both Link and EZEE'S - Greenton Security 14 to a) maring 1) Link Energytion securer the entire racket during transminnion descon back network negment. Router 1 Link Dearypt Router 2 Link Deardpt
Read Headen
Link Everypt (Again Link Brerypt) Follows Shirt

Key Distributions Fore Symmential Enercyption both menders and treceiver need to use same neces Key to encrypt and decrypt message. Key must be protected boxon The main challenge is wharing the key to parties. A DA nelector a key and phynically delivere it to B.

Third Pardy below the Key and phynically deliven it to A and B.

Third A and B have proviously receptly wed akey, one party can transmit The new Key to other, enoughted wing old Key. MAT A and B each has an energipted connection to a third party C. C can deliver a key on the encrypted links to A and B. On producally Holder State That Date The 100 Node street G12 Con The (Key distribute Ago 201)

KDe (Key distribution Center) way to

Has be velow Keyn are used.

Manteriday > Mosa were Seronion Key temporary Key.

Manteriday > Mosa were Seronion Key temporary Key. > Leconion key weather used for the durate in of a loykal connection. > Serion Keyro are transmitted in energipted form wing a montar Key that is shorted by the key distrabution center and an endoynam > N entities seroion key N(N-1) marsten Key N. > 20 frequently sension key change 1/18 to calair, troy wash Tray Age was reboom K 6'ow 200 taken Resource estato 200,

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nutives that a start is at eat part part bright by a do a of

Key distribution scenardo. Sort de dar 1 pm The recentral approprient that each weres where a unique marrier key with the Key distribution center. (KD). Det aprouve a winher to establish a logical connection with B and require a one time nession key to protect duta transmitted over the connection. A has a master Key Ka Known only to itself and the KDC.

Bun n n n n n n n n n The following steps occur: O A innuer a request to the KDe force newsion key to protect a logical connection to B. This mennage include AB and unique identifier. NI for this transaction. Which we refer to as a nonce. A should be difference monce > Himentamp/countery random number The KDC reenponds with a mennage enarryied wing Ka.

Manage included > O one time nession key is.

Manage included > O The original reequest may soluding nonce. to enable A to match this reepponse we with appropriate request, In addition the message includes two itemy dirichded for B.

> The one dime session key Ko to be used for the session. I get it's

An identifier of A. A solonces the session key for use in the upcoming session and for wards to B the information senerated at the KDC for B. Because this information is energy to I with It it prooted from excess chapping B now knows the session key ks, know the othe party A is A (front I) and knows that the information originated at the KDC. At this point a nession key his been necurred deliverced to a A and Bard they may repin their projected exchange