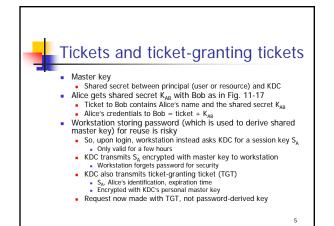


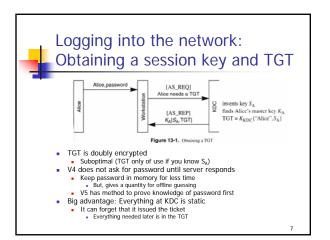


Mediated authentication with KDC (secret key trusted intermediary) Problems • KDC's overhead to contact Bob

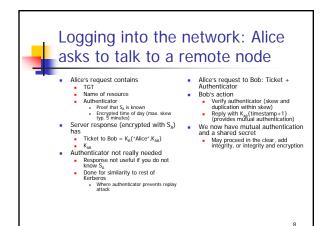
- RDCS Overhead to contact Box
- Bob receives spurious messages
- Bob may receive data before key
- Probably still want to authenticate
 - Sec 11.2

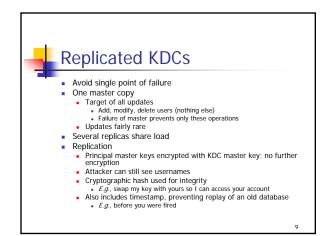


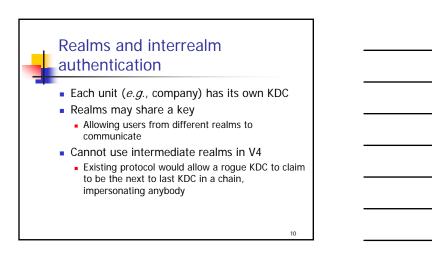
Configuration KDC master key – the secret known only by the KDC Encrypts other master keys Encrypts TGTs Is not derived from a password All current Kerberos implementations use DES V5 has fields for choosing algorithms Only recently leveraged (RFC 3962, 2/2005)

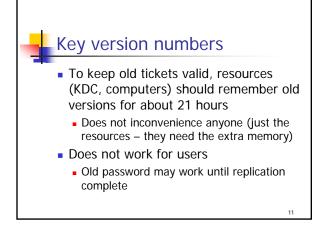


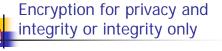












- V4 supports C+I with some limitations
 - Swapping packets garbles message, but I failure not detected
- V4 supports I, but has potential problems
 - Weak checksum choice
 - May be reversible
 - *E.g.*, possible to derive key from message and checksum

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