

Lecture Notes 13:
Private-Key Encryption in Practice

Recommended Reading.

- Katz–Lindell, Chapter 5.
- FIPS publication describing DES (link on webpage).
- FIPS publication describing AES.

1 Stream Ciphers vs. Block Ciphers

- Unlike what we've seen, private-key (aka symmetric) encryption schemes used in practice generally
 - are not based on nice computational problems
 - are not proven secure via reductions
 - are designed for a particular input length (so can only be treated with concrete security)
 - but are extremely efficient
- Stream Ciphers
 - Essentially meant to be pseudorandom generators, used for stateful encryption.
 - Examples: linear feedback shift registers (not secure, but used as component in better stream ciphers), RC4, SEAL, ...
 - Extremely simple and fast
 - Practical issues: can generate pseudorandom bits offline and decrypt very quickly without buffering, but requires synchronization
- Block ciphers
 - For every key $k \in \{0, 1\}^n$, $E_k : \{0, 1\}^\ell \rightarrow \{0, 1\}^\ell$ is a permutation, and both E_k and E_k^{-1} can be computed quickly given k . (n = key length, ℓ = block length)
 - Examples: DES, AES/Rijndael, IDEA, ...
 - Main tools for private-key encryption in practice.
 - Have both stateless modes and stateful/stream-like modes.
- How are they designed?
 - More of an art than science. Intuition/experience of designers, public critique important.

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