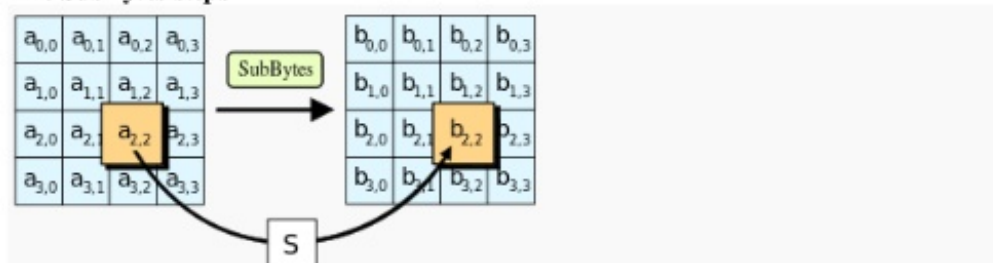[Hindsight 20 20 Crack Serial Key](#)

Each round consists of several processing steps, each containing four similar but different stages, including one that depends on the encryption key itself. A set of reverse rounds are applied to transform ciphertext back into the original plaintext using the same encryption key.

High-level description of the algorithm

1. KeyExpansions—round keys are derived from the cipher key using Rijndael's key schedule. AES requires a separate 128-bit round key block for each round plus one more.
2. InitialRound
   1. AddRoundKey—each byte of the state is combined with a block of the round key using bitwise xor.
3. Rounds
   1. SubBytes—a non-linear substitution step where each byte is replaced with another according to a lookup table.
   2. ShiftRows—a transposition step where the last three rows of the state are shifted cyclically a certain number of steps.
   3. MixColumns—a mixing operation which operates on the columns of the state, combining the four bytes in each column.
   4. AddRoundKey
4. Final Round (no MixColumns)
   1. SubBytes
   2. ShiftRows
   3. AddRoundKey.

The SubBytes steps

In the SubBytes step, each byte in the state is replaced with its entry in a fixed 8-bit lookup table, S; $b_{ij} = S(a_{ij})$.

In the SubBytes step, each byte $a_{i,j}$ in the *state* matrix is replaced with a SubByte $S(a_{i,j})$ using an 8-bit substitution box, the Rijndael S-box. This operation provides the non-linearity in the cipher. The S-box used is derived from the multiplicative inverse over $\mathbf{GF}(2^8)$, known to have good non-linearity properties. To avoid attacks based on simple algebraic properties, the S-box is constructed by combining the inverse function with an invertible affine transformation. The S-box is also chosen to avoid any fixed points (and so is a derangement), i.e., $S(a_{i,j}) \neq a_{i,j}$, and also any opposite fixed points, i.e., $S(a_{i,j}) \oplus a_{i,j} \neq 0xFF$. While performing the decryption, Inverse SubBytes step is used, which requires first taking

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