Hybrid Implementation of Two fish, AES, ElGamal and RSA Cryptosystems

Here we ensure high-security level there are different types of cryptographic methods. The proposed scheme presents implementation and analysis of new hybrid cryptosystems. We have to provide new hybrid algorithms using combination of both symmetric and asymmetric cryptographic algorithm such as Twofish, AES, RSA and ElGamal. The results show that the proposed hybrid algorithm AES+RSA is significantly secure. However, Twofish + RSA hybrid has other advantages like better computation time, the size of cipher text, and the memory consumption. When it comes to hardware requirements, AES is very efficient than Twofish. Although, to encrypt data AES requires less memory and fewer cycles.Symmetric cryptography, Asymmetric cryptography, Ciphertext, Plaintext, Hybrid encryption.

Domain: Cloud Computing
Technology: Java