Diffie Hellman exercise



Generate DH parameters of 2048-bit using the command line tool. Write a dh.cpp program, which:

- Generate an ephemeral DH pair using the parameters previously generated (you can paste the parameters inside the code);
- 2. Writes the public key into a file (let the user choose the name);
- Loads the peer public key from a file (let the user choose the name)
- Derives a shared secret from the generated private key and the peer public key.
- 5. Encrypt an existing file for the peer using the first 16 bytes of the shared secret using AES-128 in cbc mode.
- Decrypt the file encrypted by the peer

Write a single source file and then try it by launching two different processes from the terminal.

Every 15 minutes the solution for a checkpoint will be revealed.