Crash Course on How to Install OpenSSL

CS 458/558: Introduction to Computer Security

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OpenSSL (1)

- **Step 1**: Download the tar ball (e.g., **openssl-1.0.2-beta3.tar.gz**) from https://www.openssl.org/source/

OpenSSL (2)

- **Step 2**: Based on the computer architecture you are using, build the code.
  - For example, on my mac: ./Configure --prefix=/Users/ghyan/Software/test/openssl-1.0.2-beta3/compiled **darwin64-x86_64-cc**
    - If unsure about the os-compiler, run ./Configure to see all options
  - Run: make
  - Run: make install
  - Now you should be able to see in directory /Users/ghyan/Software/test/openssl-1.0.2-beta3/compiled the following subdirectories:
    - bin, include, lib, ssl

OpenSSL (3)

- **Step 3**: When compiling your c/c++ code, you need to specify the include path and library path
  - On MacOS, for instance, the command I used is:
  - gcc -isystem /Users/ghyan/Software/test/openssl-1.0.2-beta3/compiled/ main.cc -lcrypto -o ./exec
  - On a Linux machine, you may want to use the following:
  - gcc –I/Users/ghyan/Software/test/openssl-1.0.2-beta3/compiled/include -L/Users/ghyan/Software/test/openssl-1.0.2-beta3/compiled/lib main.cc -lcrypto -o ./exec
    - Option –I: specify the path to the header files (Include)
    - Option –L: specify the path to the library files (Library)

End