# 암호학 기초 https://youtu.be/Mcd0nnAigXc



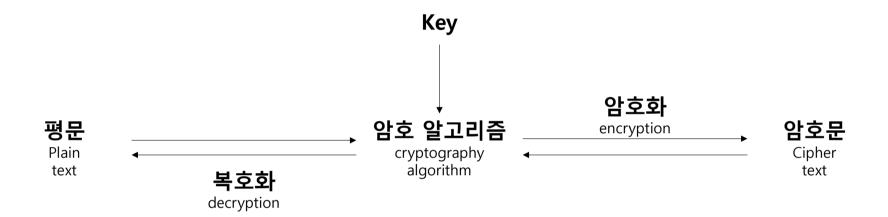


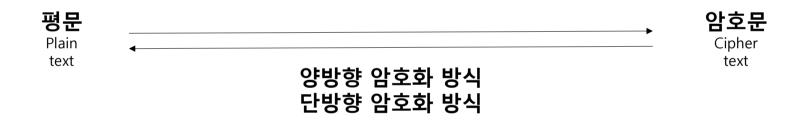
양방향 암호화 방식

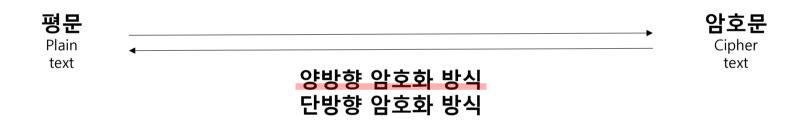
단방향 암호화 방식

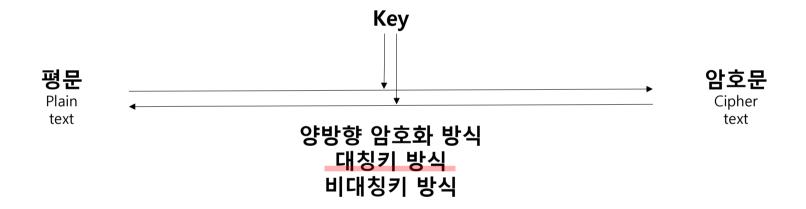
#### Crypto + graphy

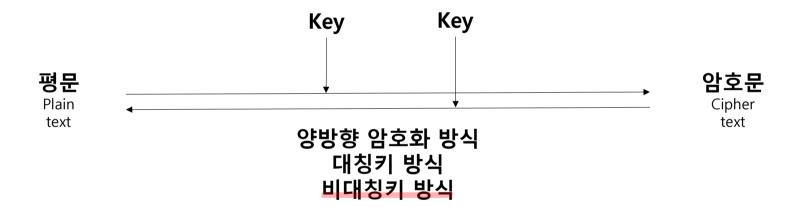
기밀성(Confidentiality), 무결성(Integrity), 인증(Authentication)

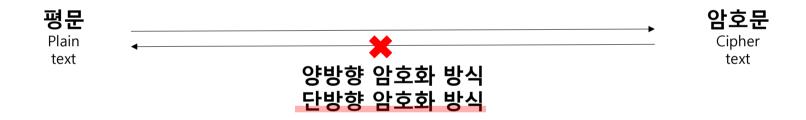










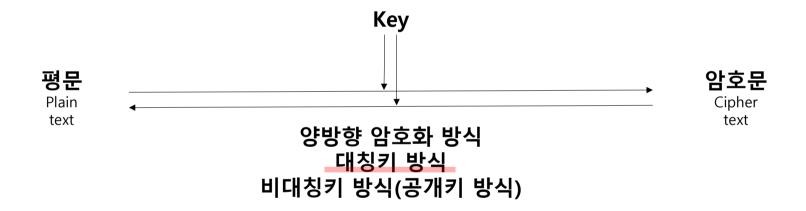


#### **HASH**

CRC, MD5, RIPEMD160, SHA-1, SHA-256, SHA-512

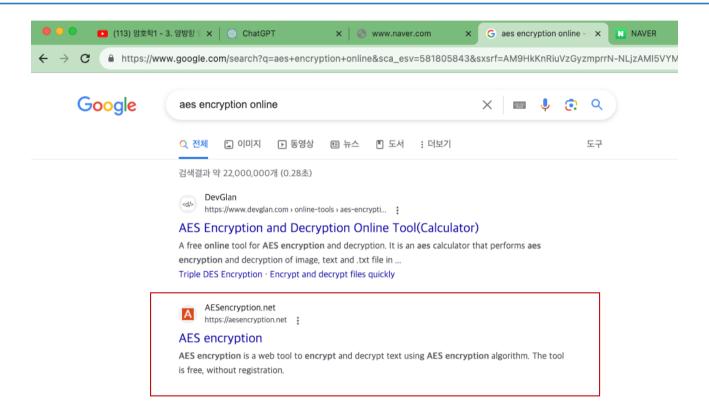


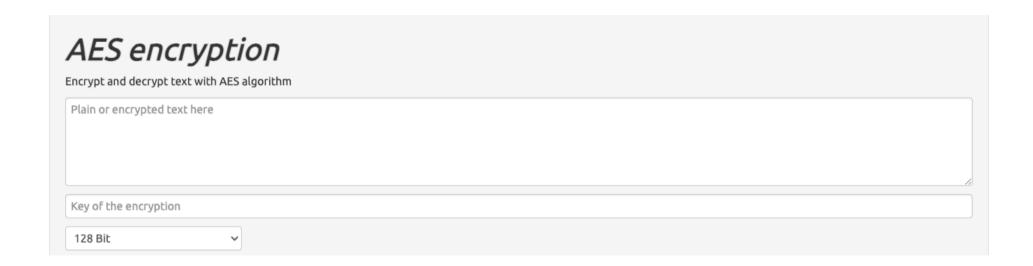
macOS 13 (ARM, 64-bit), DMG Archive	8.2.0	567.1M	Download
(mysql-8.2.0-macos13-arm64.dmg)	N	ID5: f25feb218eb99e4ef50e0651	8402b330   Signatu
macOS 13 (x86, 64-bit), DMG Archive	8.2.0	572.3M	Download
(mysql-8.2.0-macos13-x86_64.dmg)	M	ID5: 50586d3e5ab582a65aed8719	358a931a   Signatu
macOS 13 (ARM, 64-bit), Compressed TAR Archive	8.2.0	180.4M	Download
(mysql-8.2.0-macos13-arm64.tar.gz)	N	ID5: c6d8b46d8921d030b28dd0d4	18862775   Signatu
macOS 13 (x86, 64-bit), Compressed TAR Archive	8.2.0	184.8M	Download
mysql-8.2.0-macos13-x86_64.tar.gz)	M	ID5: ccb6c86bc5c4b84522b6c196	e48ac174   Signatu
macOS 13 (ARM, 64-bit), Compressed TAR Archive	8.2.0	386.5M	Download
Test Suite  mysql-test-8.2.0-macos13-arm64.tar.gz	M	ID5: cf20fcbff35457ca033d2005	09ae36d8   Signatu
macOS 13 (x86, 64-bit), Compressed TAR Archive Test Suite	8.2.0	387.1M	Download
mysql-test-8.2.0-macos13-x86_64.tar.gz)	M	D5: 40a8acd173fd43725cae7dfb	c0b1f449   Signatu
nacOS 13 (ARM, 64-bit), TAR	8.2.0	584.1M	Download
mysql-8.2.0-macos13-arm64.tar)	M	ID5: 16fafe84a351d7ad4fa36830	2b05e105   Signatu
macOS 13 (x86, 64-bit), TAR	8.2.0	590.1M	Download
mysql-8.2.0-macos13-x86_64.tar)	N	D5: c84b733de811c1ee1444faf8	1f9c6679   Signatu
We suggest that you use the MD5 checksums and GnuPG sign	natures to verify the	integrity of the packages you	download.

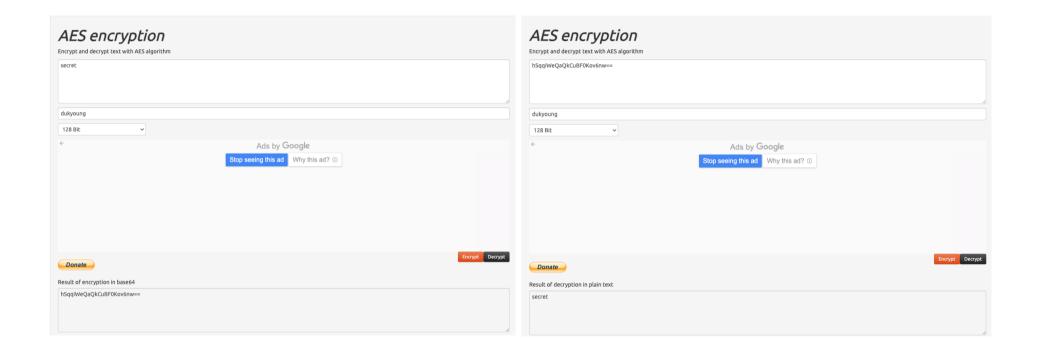


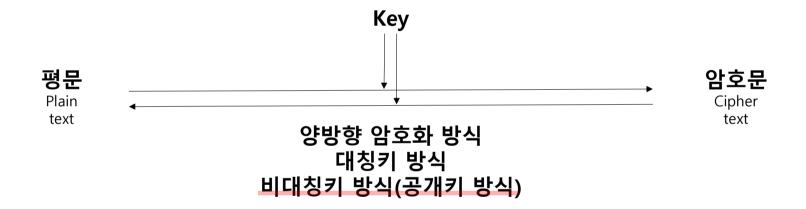
Twofish, Serpent, Blowfish, CAST5, Kuznyechik, RC4, DES, 3DES, Skipjack, Safer+/++(Bluetooth), IDEA, AES

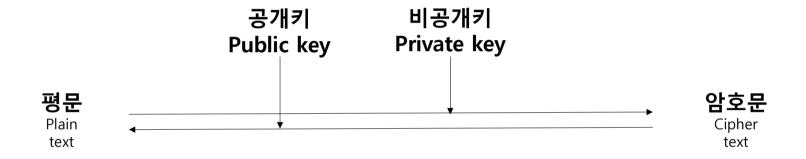
#### **AES**



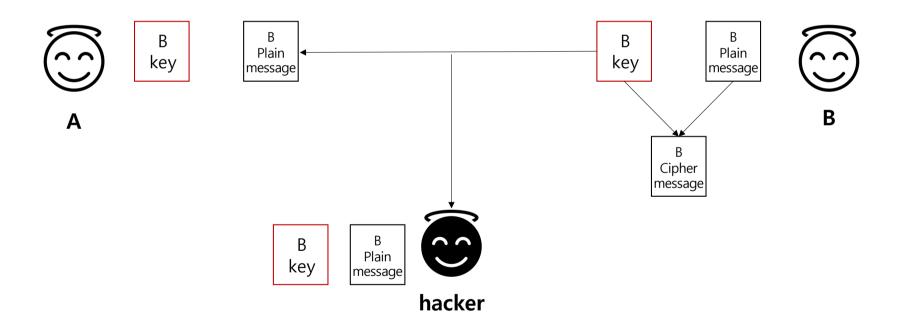


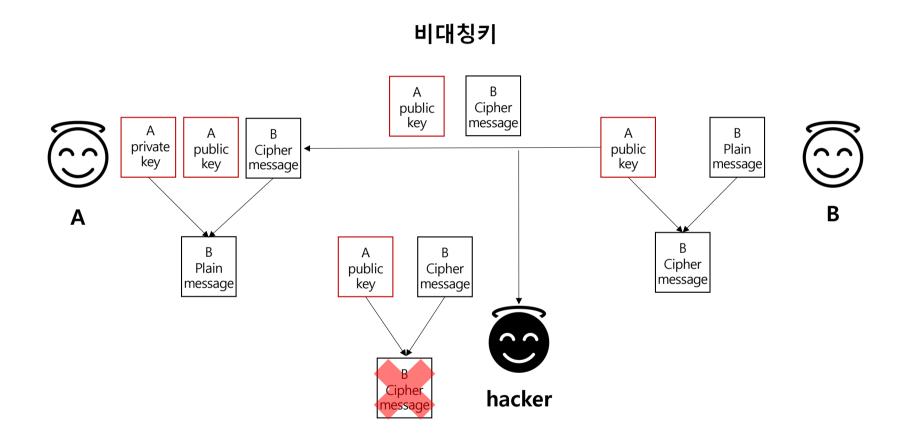






#### 대칭키(공개키) 방식의 문제점





# Q & A