

CYBERSECURITY WORKSHOP



A Little About Me

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Cryptography

Securing communication to allow only sender and receiver to view the message content.



Cryptography (Base64)

- Base64 - A group of binary to text encoding schemes that represent binary data in an ASCII string format.
- Tools - <https://www.base64encode.org>
- Convert “hello” to base64



Cryptography (rot13)

- rot13 - A simple letter substitution cipher that replaces a letter with the 13th letter after it in the alphabet.
- Tools - <https://rot13.com>
- Convert “hello” to rot13



Cryptography (hex)

- hex - A system based on base 16 structure.
- Tools - <https://cryptii.com/pipes/hex-decoder>
- Convert “hello” to hex



Cryptography (morse code)

- Morse code - Encode text characters as standardized sequences of two different signal durations, called dots and dashes
- Tools - <https://morsecode.world/international/translator.html>
- Convert “hello” to morse code



OSINT(Open Source Intelligence)

Methodology for collecting, analyzing and making decisions about data publicly available to be used in an intelligence context.



OSINT(Open Source Intelligence)

- Google
(<https://owasp.org/www-chapter-ghana/assets/slides/owasp-presentation-on-googling.pdf>)
- Image Search (<https://tineye.com> | <https://images.google.com/>)
- Flight (<https://www.airportia.com>)



Forensics

Establishing evidence and facts for a specific task



Forensics

- Wireshark - Investigate network traffics (<https://www.wireshark.org/>)
- Exiftool - Read, write and edit file metadata (<https://exiftool.org>)
- Volatility - Investigate memory dumps
(<https://www.volatilityfoundation.org>)
- Foremost - Extract particular kind of files using headers
(<https://www.kali.org/tools/foremost/>)
- Eyes to see



Thank You

