

Ethical Hacking Day #5

HTTP Methods:

GET – POST – PUT – OPTIONS – HEAD – DELETE

HTTP Request

Method + URL + Headers

POST request → + Body

GET

parameter in URL

limited length

POST

parameters in body

Unlimited Length

HTTP Request

Method /endpoint

Request Headers

Host

User-Agent

Origin

Referer

Sessions → Token , key , dummy value, encrypted value, encoded value → relate to ur account

Session related Vulnerabilities

- Session Misconfiguration

Vulnerability: Concurrent Sessions

User can have many active sessions in the same time

Vulnerability: Session take a long time to expire

Vulnerability: Session Fixation

Vulnerability: Session Token Revealed in URL

JWT → JSON Web Token

APIs →

- JSON →

- XML →

Cryptography

Plain → Cyber Security is important

key = ITI

- Encryption

- Symmetric:

Plain → encrypt using Key → Encrypted

Encrypted → decrypt Key → Plain

- Asymmetric:

Plain → encrypt using Private Key → Encrypted

Encrypted → decrypt using public key → Plain

- Hashing → One way encryption

Data cannot be decrypted

- MD5 algorithm
- SHA1 algorithm

Rainbow Table

123456789

Salting

ITI+passwords →

123456789 -> ITI123456789

- Get password from the user in the login page
- Add the salt value to the password
- MD5 hash for the (salt+password)
- compare the generated hash value with the hash value in the DB

- Encoding

URL Encoding

HTML Encoding

Base64 Encoding

Phishing

