

# STRONG AUTHENTICATION

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AUTHENTICATION IN WEB INDUSTRY

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01

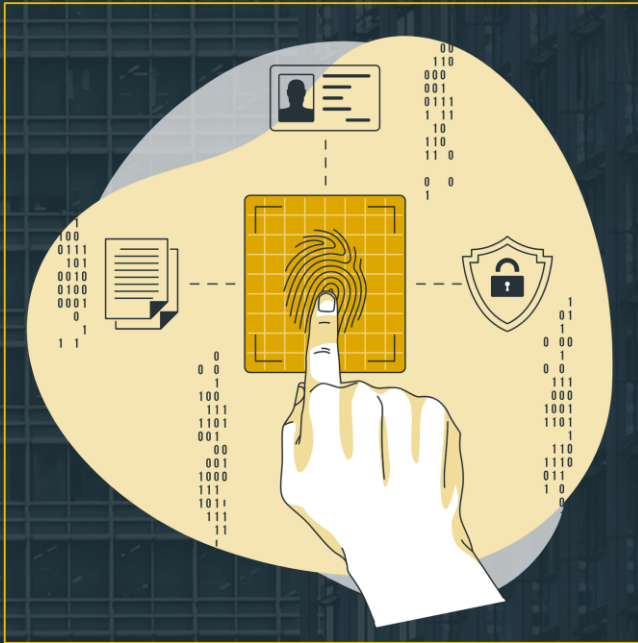
# INTRODUCTION WEB AND AUTHENTICATION

# WHAT IS ..? AUTHENTICATION

Authentication is the process of confirming that a user is who they say they are. This ensures only those with authorized credentials gain access to secure systems.

Authentication is part of a three-step process for gaining access to digital resources:

1. **Identification:** Who are you ?
2. **Authentication:** Prove it.
3. **Authorization:** Do you have permission ?



# WHAT IS ...? WEB ENV





# 02

## AUTHENTICATION

- AUTHENTICATION IMPORTANCE
- AUTHENTICATION FACTORS
- AUTHENTICATION TYPES

# 02

## AUTHENTICATION

- AUTHENTICATION IMPORTANCE
- AUTHENTICATION FACTORS
- AUTHENTICATION TYPES



# AUTHENTICATION IN CYBER SECURITY

The importance of authentication in cybersecurity is paramount. Authentication serves as a fundamental element in any cybersecurity strategy, acting as a crucial line of defense against unauthorized access and potential security breaches.

Here are the key reasons why authentication is crucial in the field of cybersecurity :



**ACCESS CONTROL**



**DATA PROTECTION**



**NETWORK SECURITY**



**SECURE TRANSACTIONS**



# AUTHENTICATION FACTORS

An authentication factor is a special category of security credential that is used to verify the identity and authorization of a user attempting to gain access, send communications, or request data from a secured network, system, or application.



## KNOWLEDGE FACTORS

Something You Know

- Passwords
- Security Question
- Personal Identification Number PIN



## POSSESSION FACTORS

Something You Have

- Smart Card
- Security Token
- One-Time Password



## INHERENCE FACTORS

Something You Are

- Fingerprint Scan
- Facial Image
- Iris Scan



## LOCATION FACTORS

Somewhere You Are

- Geo-Fencing
- IP Address Verification

# AUTHENTICATION TYPES

01

**SINGLE-FACTOR  
AUTHENTICATION**

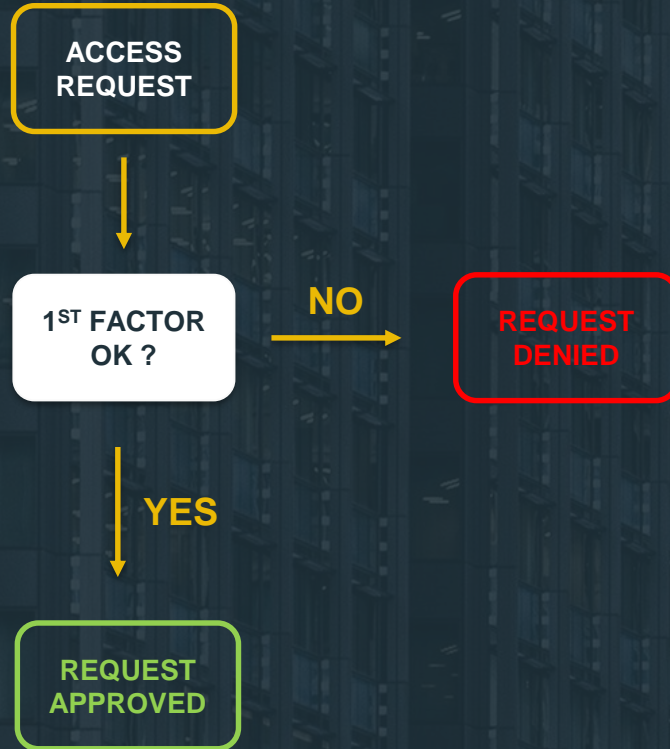
02

**MULTI-FACTOR  
AUTHENTICATION**

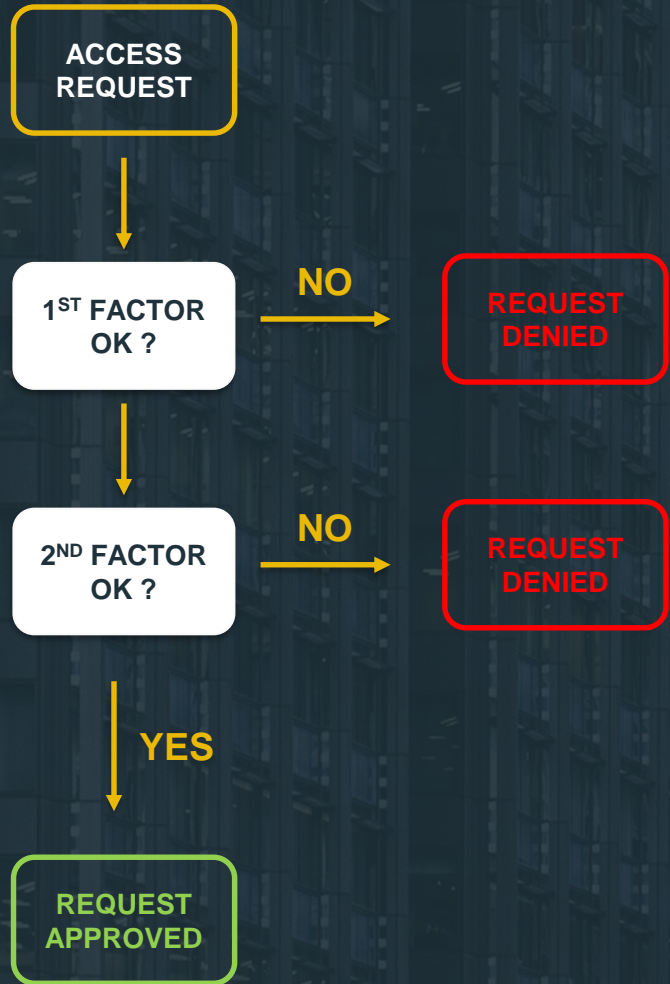
03

**SINGLE SIGN-ON  
AUTHENTICATION**





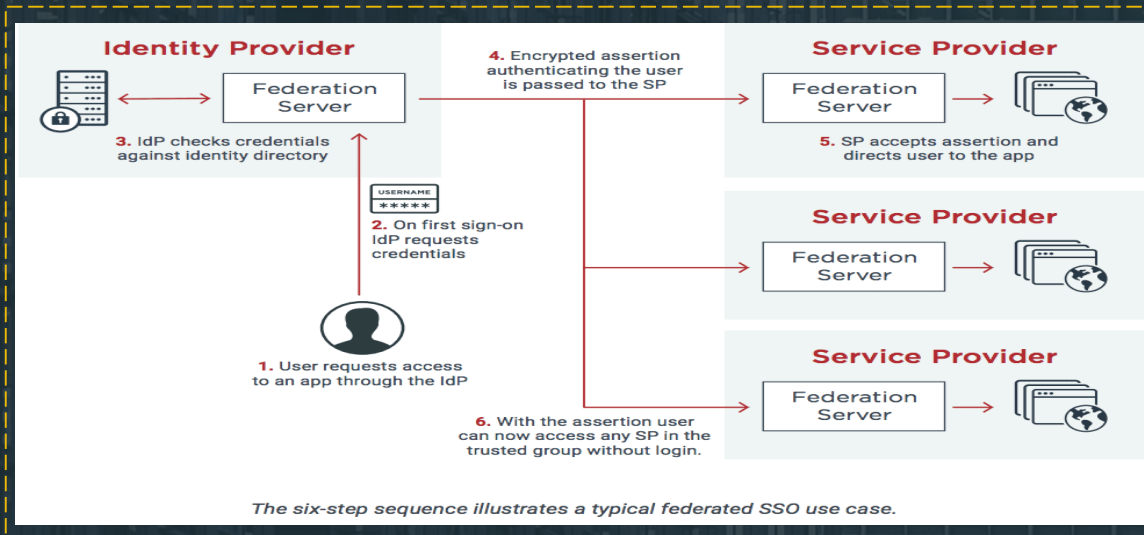
# SINGLE FACTOR



# MULTI FACTORS



# S-S-O



# AUTHENTICATION PROTOCOLS

**01** DIFFERENCE BETWEEN  
PROTOCOLS AND  
METHODS

**02** FAMOUS  
AUTHENTICATION  
PROTOCOLS



# 01 DIFFERENCE BETWEEN PROTOCOLS AND METHODS

Authentication methods are tools like 2FA, MFA, and SSO used to secure user identity. Authentication protocols form a broader ecosystem ensuring security and integrity in the authentication process, involving various elements to prevent unauthorized access. Protocols incorporate authentication methods for achieving a robust security goal.

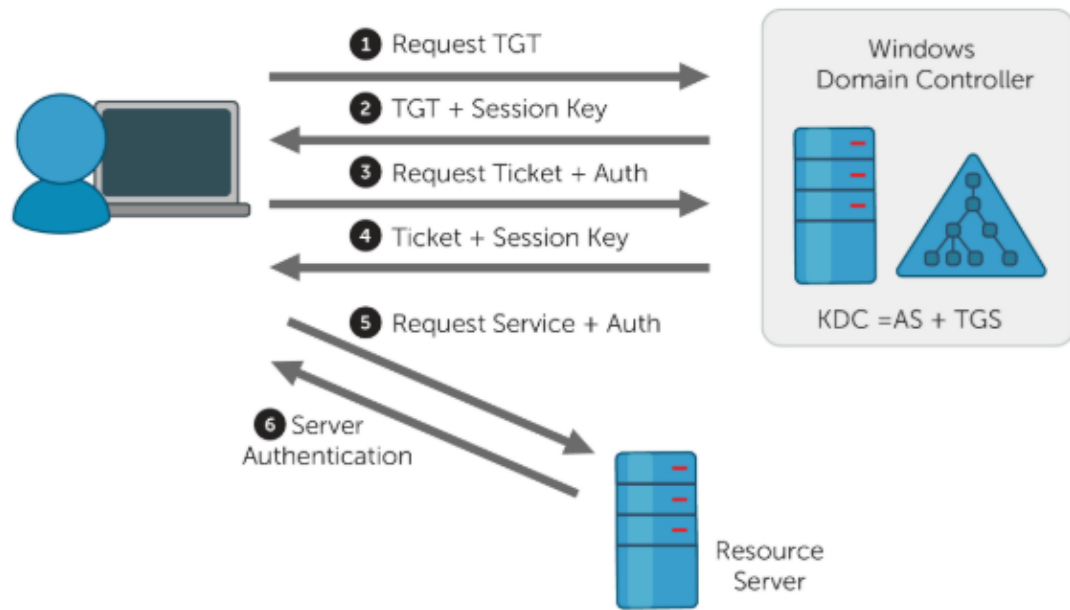
# 02 FAMOUS AUTHENTICATION PROTOCOLS

In this passage we will talk about some of the popular and widely used authentication protocols.



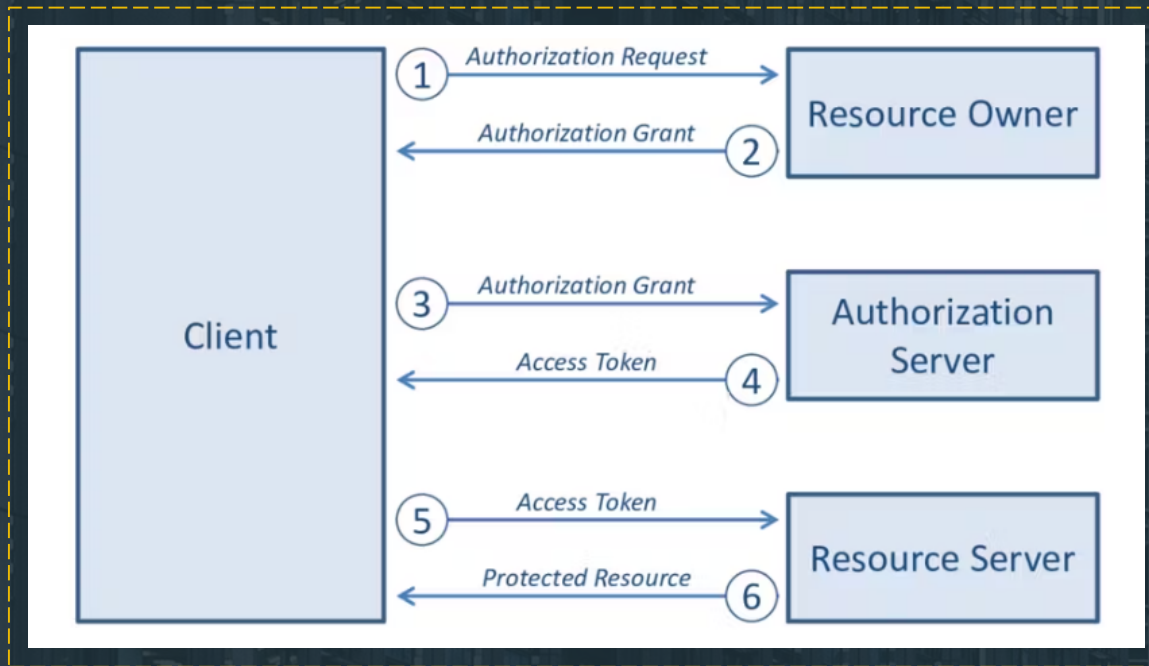
01

# KERBEROS



02

# OAUTH2.0





# CONCLUSION





# NOW IT'S TIME



FOR **QUIZ**




# Q: AUTHENTICATION VS AUTHORIZATION ?



**Q:** A PIECE OF DATA THAT  
REPRESENTS USERS IDENTITY ?



# THANKS



The image shows a top-down view of a business meeting. Five people are seated around a light-colored wooden table. They are dressed in business casual attire. The table is cluttered with various items: a laptop, several sheets of paper with charts and graphs, sticky notes, pens, and three coffee cups. One person is pointing at a tablet, while others are looking at documents or writing. The overall atmosphere is professional and collaborative. A large, bold, yellow 'Q & A' text is superimposed over the center of the image.

# Q & A