

# Classic session-based authentication



# Basic auth



# Basic auth - client side

username:password



Base64 encoding

dXNIcm5hbWU6cGFzc3dvcmQ=

**Authorization: Basic dXNIcm5hbWU6cGFzc3dvcmQ=**

# Basic auth - server side

Authorization: Basic dXNIcm5hbWU6cGFzc3dvcmQ=

dXNIcm5hbWU6cGFzc3dvcmQ=



Base64 decoding

username:password

# Base64 Encoding

dXNlcm5hbWU6cGFzc3dvcmQ=

This is **not** secure!

---

Always over HTTPS

Security is not the intent of the encoding step. Rather, the intent of the encoding is **to encode non-HTTP-compatible characters** that may be in the user name or password into those that are HTTP-compatible.

[https://en.wikipedia.org/w/index.php?title=Basic\\_access\\_authentication&oldid=339510542](https://en.wikipedia.org/w/index.php?title=Basic_access_authentication&oldid=339510542)

# Advantages

- Simple
- Stateless server
- Supported by all browsers

# Disadvantages

- Requires HTTPS
- Subject to replay attacks

# Better Solutions

- Digest access authentication

([https://en.wikipedia.org/wiki/Digest\\_access\\_authentication](https://en.wikipedia.org/wiki/Digest_access_authentication))

- Asymmetric cryptography

([https://en.wikipedia.org/wiki/Public-key\\_cryptography](https://en.wikipedia.org/wiki/Public-key_cryptography))

- OAuth

(<https://en.wikipedia.org/wiki/OAuth>)

- JSON Web Tokens