

Hashed Password

- [Description](#)
- [Formula](#)
- [Sample Code \(Java\)](#)

Description

- Used in JSON API authentication and JavaScript Single Sign ON (SSO)
- Prevents a user's password from being directly exposed during authentication

Formula

```
md5(username + ":" + md5Base16(password));
```

E.g.: Assuming that the username is "admin" and the password is "admin", the resulting hash should be "**14ACD782DCFEB2BCDE2B271CCD559477**".

Sample Code (Java)

```
public static String md5(String content) {  
    try {  
        MessageDigest m = MessageDigest.getInstance("MD5");  
        byte[] data = content.getBytes();  
        m.update(data, 0, data.length);  
        BigInteger i = new BigInteger(1, m.digest());  
        return String.format("%1$032X", i);  
    } catch (Exception ex) {}  
    return "";  
}  
  
public static String md5Base16(String content) {  
    try {  
        MessageDigest md = MessageDigest.getInstance("MD5");  
        byte[] bytes = md.digest(content.getBytes());  
        StringBuffer sb = new StringBuffer();  
        for (int i = 0; i < bytes.length; i++) {  
            byte b = bytes[i];  
            String hex = Integer.toHexString((int) 0x00FF & b);  
            if (hex.length() == 1) {  
                sb.append("0");  
            }  
            sb.append(hex);  
        }  
        return sb.toString();  
    } catch (Exception e) {}  
    return "";  
}
```