# Password Disclosure in RuoYi-Vue≤ 3.8.9

#### **Basic Information**

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**Affected Version:** RuoYi-Vue ≤ 3.8.9

**Vendor:** RuoYi-Vue GitHub Repository

Software: RuoYi-Vue

#### **Vulnerability Files:**

• ruoyi-ui/jsencrypt.js and ruoyi-ui/login.vue

**Description:** If user checked rememberMe in login page, the cookie will carry encrypted password in all of the following requests. However, the private key which can be used to decrypt the password is hard coded in jsencrypt.js, attacker can get encrypted password from cookie and decrypt the password with the private key.

**CWE:** CWE-315 and CWE-539

**Attack Type:** Remote

Impact: Information Disclosure, Identity Theft and Unauthorized Access

## **Analysis**

1. In jsencrypt.js, the privateKey is hard coded, and there is a function decrypt we will use to decrypt password.

2. In login.vue, the function handleLogin check whether the rememberMe is true,	
2. In login.vue, the function handleLogin check whether the rememberMe is true, if it is, the function will set encrypt password in cookie. The cookie will be carried	
if it is, the function will set encrypt password in <code>cookie</code> . The cookie will be carried	
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3. For more, there is no strategy to protect cookie. It can be attacked easily.

### **PoC**

The decrypt script is as follows, public key, private key and cookie can be found in web page using f12.

```
const JSEncrypt = require('node-jsencrypt'); const publicKey = '' const
privateKey = '' const passwd = '' function encrypt(txt) { const
encryptor = new JSEncrypt() encryptor.setPublicKey(publicKey) return
encryptor.encrypt(txt) } function decrypt(txt) { const encryptor = new
JSEncrypt() encryptor.setPrivateKey(privateKey) return
encryptor.decrypt(txt) } console.log(decrypt(passwd))
```