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Owner

Hardcoded-key vulnerability usage of static salt #190



New issue

Open LennonCMJ opened this issue on Feb 19, 2019 · 1 comment

```
LennonCMJ commented on Feb 19, 2019 • edited ▼
Application uses static key when performing encryption which makes it easier for an attacker to conduct brute force password guessing.
   Affected \ URL: \ https://github.com/doramart/DoraCMS/blob/9fee40914eccfd06dc225ebdd3e7c4bff0be799f/server/lib/utils/crypto.js
   const AESkey = "doracms_";
   const MD5key = "dora";
export default {
              AES: {
                        encrypt: (message) => {//加密
return CryptoJS.AES.encrypt(message, AESkey, {
mode: CryptoJS.mode.CBC, _
                                               padding: CryptoJS.pad.Pkcs7
                                   }).toString();
                         },
   Affected URL:
   https://github.com/doramart/DoraCMS/blob/9fee40914eccfd06dc225ebdd3e7c4bff0be799f/server/lib/controller/user.js
     if (fields.password) {
                    userObj.password = service.encrypt(fields.password, settings.encrypt_key);
}
   Solution usage of a random salt :
    Solution usage of a random salt :
this.encrypt = function(message, password) {
   var salt = forge.random.getBytesSync(128);
   var key = forge.pandom.getBytesSync(128);
   var iv = forge.random.getBytesSync(166);
   var cipher = forge.cipher.createCipher('AES-CBC', key);
   cipher.start({iv: iv});
   cipher.update(forge.util.createBuffer(message));
   sishes_fisish();
              cipher.finish();
              var cipherText = forge.util.encode64(cipher.output.getBytes());
return {cipher_text: cipherText, salt: forge.util.encode64(salt), iv: forge.util.encode64(iv)};
https://auth0.com/blog/adding-salt-to-hashing-a-better-way-to-store-passwords/\\
https://www.thepolyglotdeveloper.com/2014/10/implement-aes-strength-encryption-javascript/
https://cwe.mitre.org/data/definitions/329.html
```

Thank you, I will confirm that No one assigned Labels

Projects

No milestone

Development

No branches or pull requests

doramart commented on Feb 22, 2019

2 participants

