

# A Developer Diary

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July 29, 2015 By [Abhisek Jana](#) — [8 Comments \(Edit\)](#)

## How to easily encrypt and decrypt text in Java



Cryptography in java is a separate subject altogether. Probably we will go in detail another time. However there is always a need for simple encryption and decryption process which we can easily incorporate in our code with out many dependency. While looking for such solution I came across this simple **Blowfish** implementation, which is very easy to understand and implement.

[the\_ad id="763"]

Here is the most simple solution on how to easily encrypt and decrypt text in Java.

## Encryption:

Find the **encrypt** method here. This takes the clear text and a key as the input.

```
public static String encrypt(String strClearText,String  
strKey) throws Exception{  
    String strData="";  
  
    try {  
        SecretKeySpec skespec=new
```

```
SecretKeySpec(strKey.getBytes(),"Blowfish");
        Cipher
cipher=Cipher.getInstance("Blowfish");
        cipher.init(Cipher.ENCRYPT_MODE,
skeyspec);

        byte[]
encrypted=cipher.doFinal(strClearText.getBytes());
        strData=new String(encrypted);

    } catch (Exception e) {
        e.printStackTrace();
        throw new Exception(e);
    }
    return strData;
}
```

## Decryption:

Here is the `decrypt` method. This takes the encrypted text and the same key as the input.

```
public static String decrypt(String strEncrypted,String
strKey) throws Exception{
    String strData="";

    try {
        SecretKeySpec skeyspec=new
SecretKeySpec(strKey.getBytes(),"Blowfish");
        Cipher
cipher=Cipher.getInstance("Blowfish");
        cipher.init(Cipher.DECRYPT_MODE,
skeyspec);

        byte[]
```

```
decrypted=cipher.doFinal(strEncrypted.getBytes());
    strData=new String(decrypted);

    } catch (Exception e) {
        e.printStackTrace();
        throw new Exception(e);
    }
    return strData;
}
```

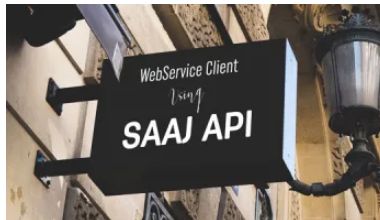
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Pratik says

April 16, 2017 at 4:59 am

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thanks for this program.....this is really help me a lot.....

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[simplyencrypt](#) says

May 4, 2017 at 2:07 am

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[simplyencrypt](#) says

June 7, 2017 at 6:06 am

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**simplyencrypt** says

June 21, 2017 at 3:15 am

(Edit)

I have recently started commenting on blogs and I guess I have learned lot of things by commenting on blogs and also connected with many bloggers.

Thanks for sharing this awesome tips.

Reply



**Hiral Patel** says

June 21, 2017 at 12:22 pm

(Edit)

Thanks for the article. I was looking for this.

Reply

**Vikar** says



July 11, 2017 at 5:25 am

(Edit)

Thanks,

How to store encrypted byte to string in database? if i don't want use byte data type in database

Reply



Carlos Macasaet says

September 21, 2017 at 5:42 pm

(Edit)

Vikar, you can Base64-encode the encrypted data to turn it into a string. Here is an example of doing that to implement the Fernet standard in Java: <https://github.com/l0s/fernet-java8/blob/master/src/main/java/com/macasaet/fernet/Token.java#L242>

.

Reply



Sergio says

September 18, 2017 at 5:42 pm

(Edit)

What jar files & imports are necessary for this to run?

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