# hutool by dromara has SPEL Expression injection

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vendors:

Hutool — A set of tools that keep Java sweet.

dromara/hutool: A set of tools that keep Java sweet. (github.com)

Vulnerability scope: hutool <=5.8.11

Vulnerability File: hutool-all-5.8.11.jar!\cn\hutool\extra\expression\engine\spel\SpELEngine.class

When the eval parameter is controllable, it causes SPEL expression injection remote code execution

```
Number-claim Sality are an induced central expression regime spell @ Spilingine | Spilingine class | Spiling
```

# **Environment build**

- SpringBoot 3.0.1
- JDK 17

## pom.xml

```
<artifactId>hutool</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <name>hutool</name>
    <description>hutool</description>
    cproperties>
        <java.version>17</java.version>
    </properties>
    <dependencies>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-web</artifactId>
        </dependency>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
        </dependency>
        <dependency>
            <groupId>cn.hutool</groupId>
            <artifactId>hutool-all</artifactId>
            <version>5.8.11
        </dependency>
    </dependencies>
    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>
</project>
```

#### Create a test class **Person**

```
package com.example.hutool;

public class Person {
    public String name;
    public Person(String name) {
        this.name=name;
    }
}
```

```
| Power Cornel | No. | Control | Decision |
```

#### Create controller

```
package com.example.hutool.controller;
import cn.hutool.extra.expression.engine.spel.SpELEngine;
import com.example.hutool.Person;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import java.util.HashMap;
@Controller
public class TestController {
   @GetMapping("/a")
    public void test(String a){
        Person kk = new Person("kk");
        HashMap<String,Object> m = new HashMap<>();
        m.put("1",kk);
        SpELEngine spELEngine = new SpELEngine();
        spELEngine.eval(a,m);
   }
}
```

```
| Description | Fig. | Description | Descrip
```

### 运行项目

## **POC**

## 运行poc, 弹出计算器

