Security

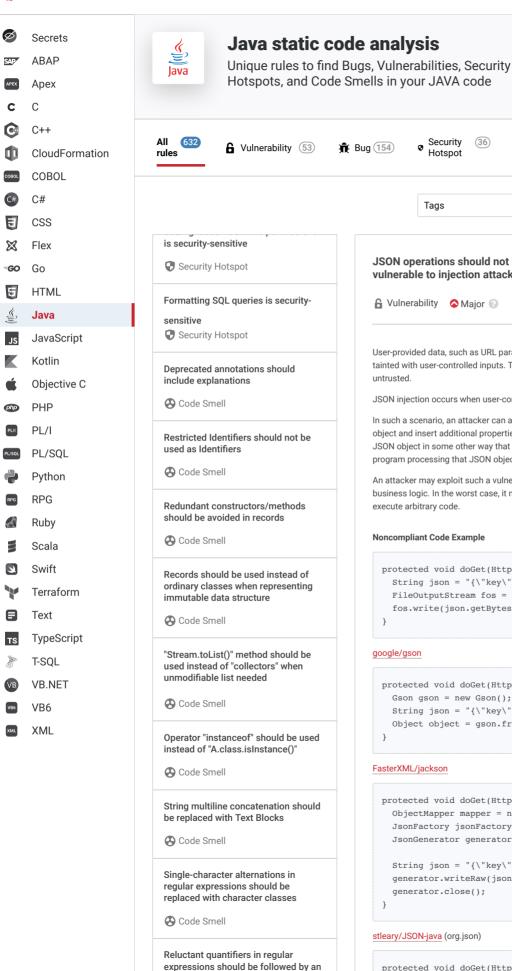
Hotspot

(36)



Products ✓

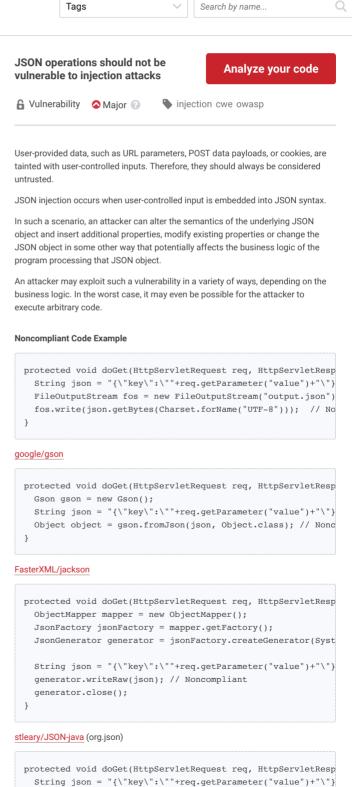
O Quick 42 Fix



expression that can't match the empty

string

Code Smell



JSONObject jo = new JSONObject(json); // Noncompliant

(389)

Constructors of an "abstract" class should not be declared "public"

Code Smell

Similar tests should be grouped in a single Parameterized test

Code Smell

Tests should be stable

A Code Smell

Test methods should not contain too many assertions

Code Smell

### **Compliant Solution**

```
protected void doGet(HttpServletRequest req, HttpServletResp
String value = req.getParameter("value");
if(value.matches("^[A-Za-z0-9_]+$")) {
   String json = "{\"key\":\""+value+"\"}";
   FileOutputStream fos = new FileOutputStream("output.json fos.write(json.getBytes(Charset.forName("UTF-8")));
}
}
```

# google/gson

```
protected void doGet(HttpServletRequest req, HttpServletResp
   Gson gson = new Gson();
   JsonObject json = new JsonObject();
   json.addProperty("key", req.getParameter("value"));
   Object object = gson.fromJson(json, Object.class);
}
```

## FasterXML/jackson

```
protected void doGet(HttpServletRequest req, HttpServletResp
  ObjectMapper mapper = new ObjectMapper();
  JsonFactory jsonFactory = mapper.getFactory();
  JsonGenerator generator = jsonFactory.createGenerator(Syst
  generator.writeStartObject();
  enerator.writeFieldName("key");
  generator.writeString(req.getParameter("value"));
  generator.close();
}
```

### stleary/JSON-java (org.json)

```
protected void doGet(HttpServletRequest req, HttpServletResp
   JSONObject jo = new JSONObject();
   jo.append("key", req.getParameter("value"));
}
```

### See

- OWASP Top 10 2021 Category A3 Injection
- OWASP Top 10 2017 Category A1 Injection
- MITRE, CWE-20 Improper Input Validation
- MITRE, CWE-76 Improper Neutralization of Equivalent Special Elements

### Available In:

```
sonarcloud  sonarqube Developer Edition
```

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