### huntr

# Improper Restriction of XML External Entity Reference in detekt/detekt



✓ Valid ) Reported on Jan 16th 2022

### Description

The read() function makes use of SAXParser generated from a SAXParserFactory with no FEATURE\_SECURE\_PROCESSING set, allowing for XXE attacks. In https://github.com/detekt/detekt/blob/08eac68caa24ced140cc017d4de3b258a470232b/detek t-core/src/main/kotlin/io/gitlab/arturbosch/detekt/core/baseline/BaselineFormat.kt#L20-L22

```
val reader = SAXParserFactory.newInstance().newSAXParser()
val handler = BaselineHandler()
reader.parse(it, handler)
```





## **Proof of Concept**

Extracted out the key function mentioned above to showcase how it can be exploited.

```
import javax.xml.parsers.SAXParser;
import javax.xml.parsers.SAXParserFactory;
import org.xml.sax.HandlerBase;
import java.io.ByteArrayInputStream;
public class Poc {
    public static void main(String[] args) {
        try {
            String xmlpoc = "<?xml version=\"1.0\"?><!DOCTY"</pre>
                                                                  Chat with us
            SAXParser saxParser = SAXParserFactory.newInstal.
            saxParser.parse(new ByteArrayInputStream(xmlpoc.getBytes()), ne
```

```
} catch (Exception e) {
            e.printStackTrace();
    }
}
```

Causes an SSRF to http://127.0.0.1

## **Impact**

This vulnerability is capable of XXE to disclose data/conduct SSRF attacks etc.

### Occurrences



BaselineFormat.kt L20-L22

#### CVE

#### Vulnerability Type

CWE-611: Improper Restriction of XML External Entity Reference

#### Severity

#### Visibility

#### Status

#### Found by



#### ready-research



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We are processing your	r report and will contact	the detekt team	within 24 hours	10 months ago
vve are processing your		the detent team	I VVILIIII ZT HOUIS.	

We created a GitHub Issue asking the maintainers to create a SECURITY.md 10 months ago

Chao Zhang validated this vulnerability 10 months ago

ready-research has been awarded the disclosure bounty 🗸

The fix bounty is now up for grabs

Chao Zhang marked this as fixed in 1.20.0 with commit c965a8 7 months ago

The fix bounty has been dropped 🗶

This vulnerability will not receive a CVE x

BaselineFormat.kt#L20-L22 has been validated 🗸

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