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## Upload delay resulting in DoS #33

🔔 Open mmmds opened this issue on Feb 17, 2020 · 3 comments

mmmds commented on Feb 17, 2020

There is a vulnerability which allows to perform DoS attack against the application server. The problem lies in handling `delay` parameter when upload is initiated ( `gwtupload.server.UploadServlet#parsePostRequest` ). Value from this parameter is used as an argument for `Thread.sleep` invocation. Malicious user can specify even max integer value 2147483647, which would cause a thread to sleep for almost 25 days ( `gwtupload.server.AbstractUploadListener#update` ). Additionally, the value from `delay` parameter is assigned the field which in case of servlets behaves as a global variable. It means every further request will use this value and also will be put to sleep. Putting a thread to sleep excludes it from a limited set of available threads, so after a suitable number of upload requests (Tomcat by default has limit of 200 threads) the whole application will become unresponsive and will not accept any new requests.

<https://github.com/manolo/gwtupload/blob/master/core/src/main/java/gwtupload/server/UploadServlet.java>

```
protected String parsePostRequest(HttpServletRequest request, HttpServletResponse response) {  
  
    try {  
        String delay = request.getParameter(PARAM_DELAY);  
        String maxFileSize = request.getParameter(PARAM_MAX_FILE_SIZE);  
        maxSize = maxFileSize != null && maxFileSize.matches("[0-9]*") ? Long.parseLong(maxFileSize) : maxSize;  
        uploadDelay = Integer.parseInt(delay);  
    } catch (Exception e) { }  
    [...]  
    protected AbstractUploadListener createNewListener(HttpServletRequest request) {  
        int delay = request.getParameter("nodelay") != null ? 0 : uploadDelay;  
        if (isAppEngine()) {  
            return new MemoryUploadListener(delay, getContentLength(request));  
        } else {  
            return new UploadListener(delay, getContentLength(request));  
        }  
    }  
}
```

<https://github.com/manolo/gwtupload/blob/master/core/src/main/java/gwtupload/server/AbstractUploadListener.java>

```
// Just a way to slow down the upload process and see the progress bar in fast networks.  
if (slowUploads > 0 && done < total) {  
    try {  
        Thread.sleep(slowUploads);  
    } catch (Exception e) {  
        exception = new RuntimeException(e);  
    }  
}
```

The same way the servlet accepts `maxFileSize` parameter, but its abuse will only prevent from uploading files; the server won't suffer.

mmmds commented on Jun 7, 2020

Author<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-13128>🔗 Mik317 mentioned this issue on Jun 18, 2020**[Fix DOS issue] Updating the AbstractUploadListener.java file 418sec/gwtupload#1**🔗 Merged🔗 jduo added a commit to jduo/gwtupload that referenced this issue on Jun 19, 2020 🔔🔗 Fix [manolo#33](#), [CVE-2020-13128](#), DOS attack due to delay param ...

e05acf5

🔗 jduo mentioned this issue on Jun 19, 2020**Fix #33, CVE-2020-13128, DOS attack due to delay param 418sec/gwtupload#2**🔔 Closed

huntr-helper commented on Jun 19, 2020

🔗 A fix has been provided for this issue. Please reference: [418sec#1](#)🔥 This fix has been provided through the <https://huntr.dev/> bug bounty platform.🔗 huntr-helper mentioned this issue on Jun 19, 2020

➔ Merged

csware commented on Feb 14, 2021

Contributor

Fix merged, can be closed



luchua-bc mentioned this issue on Sep 19, 2021

[Java] CWE-400: Query to detect uncontrolled thread resource consumption [github/securitylab#431](#)

🔒 Closed

📋 1 task



github-actions (bot) mentioned this issue 2 weeks ago

Add a PR check to ensure query IDs are unique [github/codeql#11574](#)

➔ Merged

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

No branches or pull requests

3 participants

