

main ▾

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[claroline-CVEs](#) / [rce](#) / rce_file_upload.md

matthieu-hackwitharts Update rce_file_upload.md

[History](#)

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Remote code execution via arbitrary file upload (CVE-2022-37159)

Claroline Connect app presents a RCE vulnerability because of the possibility to upload an arbitrary php file. This vulnerability is present on many upload forms, so I've personally choosed the resource icon section.

The route `core/Controller/APINew/FileController.php` filters the upload image type by using the `getMimeType()` function from Symfony :

```
public function uploadImage(Request $request): JsonResponse
{
    $files = $request->files->all();

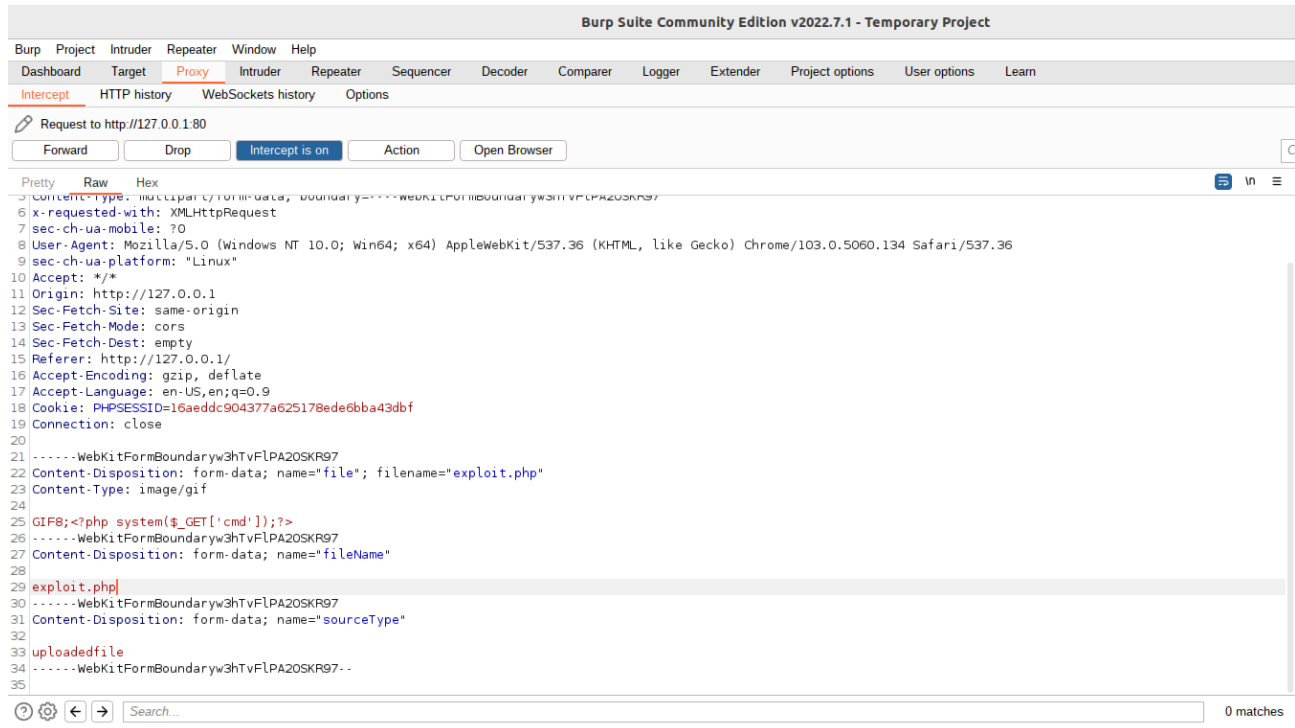
    $objects = [];
    foreach ($files as $file) {
        if (0 !== strpos($file->getMimeType(), 'image')) {
            throw new InvalidDataException('Invalid image type.');
```

```

    return new JsonResponse($objects);
}

```

It is possible to trick this function by adding some magic bytes like `GIF8;` which corresponds to the GIF image file type. The mime type `image/gif` should be also applied.



Then it is possible to get RCE by using the upload php shell :



Fix suggestions : Enhance file upload checks by adding real mime type verification (file content, bytes, size, etc).