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NoSQL-Injection discloses S3 File Upload URLs



SUMMARY BY ROCKET.CHAT



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A NoSQL-Injection vulnerability in the getS3FileUrl Meteor server method can disclose arbitrary file upload URLs to users that should not be able to access.

Description

The fileId argument of the getS3FileUrl Meteor server method is not validated and can contain a regular expression.

The File Upload lookup result in app/file-upload/server/methods/getS3FileUrl.js#L18 is returned to the requesting user, regardless of the users ability to access the file.

```
Code 318 Bytes

1  Meteor.methods({
2    async getS3FileUrl(fileId) {
3        if (protectedFiles && !Meteor.userId()) {
4            throw new Meteor.Error('error-invalid-user', 'Invalid user', { method:
5        }
6            const file = await Uploads.findOneById(fileId);
7            return UploadFS.getStore('AmazonS3:Uploads').getRedirectURL(file);
9        },
10    });
```

The S3 storage URL is secret because no further access checks occur so that disclosure of the URL also discloses the file contents.

Releases Affected:

• 0.53.0

Steps To Reproduce (from initial installation to vulnerability):

- 1. Login to Rocket. Chat instance with \$3 storage enabled
- 2. Run PoC to access the first file matching the Regular Expression pattern

Supporting Material/References:

Proof of Concept

Suggested mitigation

- Check access to a files room
- Require fileld to be a string

Impact

Authenticated users can enumerate and access arbitrary file uploads they should not have access to.

Fix

Fixed in versions 4.7.5, 4.8.2 and 5.0>

TIMELINE

gronke submitted a report to Rocket.Chat.

Jan 22nd (10 months ago)

— mrrorschach Rocket.Chat staff changed the status to • Triaged.

Jan 26th (10 months ago)

— mrrorschach Rocket.Chat staff posted a comment.

Jan 31st (10 months ago)

— mrrorschach Rocket.Chat staff closed the report and changed the status to • Resolved.

Jul 25th (4 months ago)



— mrrorschach Rocket.Chat staff disclosed this report.

Sep 22nd (2 months ago)