Hotlink prevention, security enhancement and feature addition via short url functionality

Status
- Open

Subject
Hotlink prevention, security enhancement and feature addition via short url functionality

Version
16.x

Category
- Feature request

Feature
File Gallery (elFinder or standard UI)

Resolution status
New

Submitted by
Niel Hirjee

Lastmod by
Niel Hirjee

Rating
★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★ ★★★★★ (0) entiful

Description
Since the short Url feature is being added to Tiki, could it not be combined with file galleries such that a file in a gallery is linked or displayed by using a short Url instead of the file Id?

This will enhance security and add new functionality to Tiki. Currently the value of fieldId is sequentially generated and is therefore predictable: visitors can easily scrape off files from a tiki install by using tiki_download and incrementing the value of fieldId inside a loop. Additionally, files can be hotlinked.

To fortify tiki against this, all that needs to be done is to combine the new short Url functionality with file galleries: if plugin files is used with a parameter, say "mask" or "obfuscate", then the fieldId will be substituted with a short code. For example, the user enters tiki-download_file.php?fileId=1 in the wiki text editor, just as before, but if the obfuscate="y" parameter is used then the html will show tiki-download_file.php?fileId=RandomShortURLhghgftrdfgnj

As an additional feature, if the duration (life / validity) of the short code can be user defined per gallery
/ file / plugin files parameter, then tiki-download_file.php?fileId=RandomShortURLhghhgftrdfgnj will stop serving fileId=1 after that time. Tiki could then be made to serve content via perishable and non predictable file names - just like the big CDN companies such as Akamai do.

I imagine this would be fairly simple to implement and would add a very useful feature to Tiki.

For a simple implementation of this idea, see:
https://github.com/spatie/url-signer

Importance
2

Easy to solve?
8

Priority
16

Demonstrate Bug
Please demonstrate your bug on show2.tikiwiki.org

Version: trunk
Create show2.tikiwiki.org instance

Ticket ID
6238

Created
Tuesday 10 January, 2017 21:56:49 GMT-0000

LastModif
Thursday 02 February, 2017 12:23:05 GMT-0000

Comments

Attachments

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No attachments for this item

The original document is available at
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