Wisec - The WIse SECurity

Wisec - The WIse SECurity - Stefano Di Paola, wisec.it.

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Wisec@23rd.CCC Congress in Berlin - 29th Dec. 2006 - Subverting Ajax.

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Wednesday, August 29, 2007, 17:24

Scanning internal Lan with PHP remote file opening.

Even if some website is still vulnerable to remote file inclusion (RFI), this is becoming a quite rare scenery. Nonetheless, much more often it happens that some of the php functions allowing http or ftp protocol wrappers are exposed to user control. A perfect example for this tecnique is a fully controlled getsizeimage() function with allow_url_fopen. No RFI, no data returned, it could be just used for DoS.

<? getimagesize($_GET['image']); ... ?>

Obviously there's no RFI, and until yesterday probably nobody would care about check,inspect or exploit it. This article explains that some kind of attack could still be accomplished:

Lan scanning and Drive by Pharming with error matching or time analisys.

If the php error display is set to On, a simple request like:

http://victim.ltd/flawed.php?image=http://127.0.0.1:22/check

will display: Warning: getimagesize(http://127.0.0.1:22/check): failed to open stream: Connection refused in...**

This means it's a closed port.

Indeed, an open port will be displayed as:

**Warning: getimagesize(http://127.0.0.1:22): failed to open stream: HTTP request failed!... ftp :// protocol could obviously be used, too.

If there's no error on output, timing attacks could be accomplished too.

Infact we could get timing result if a port is closed: **http://victim.ltd/flawed.php?image=ftp://127.0.0.1:3306/check

real 0m0.057s user 0m0.032s sys 0m0.020s Or if a port is opened : **http://victim.ltd/flawed.php?image=ftp://127.0.0.1:3306/check

real 0m5.095s user 0m0.032s sys 0m0.020s

So, what can be done?

If the right conditions are satisfied:

1. Drive By Pharming

2. Bruteforcing routers.
3. Full Lan Scan.

Last, Ascii wrote a nice php script for Lan Scan. You can find it here...

Ah... did I mentioned that php remote file supports HTTP Basic Authentication? :)

As usual, the next move is up to you

No comments yet.
