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IIS 5.1 Directory Authentication Bypass

Introduction:

Although IIS5 is very old, finding one is not impossible! Therefore, I want to introduce a technique to bypass the IIS authentication methods on a directory.

Description:

This vulnerability is because of using Alternate Data Stream to open a protected folder. All of IIS authentication methods can be circumvented (Fig. 1). In this technique, we can add a ":\$i30:\$INDEX_ALLOCATION" to a directory name to bypass the authentication.

Figure 2 shows a protected folder - "AuthNeeded" – which includes "secretfile.asp".

It is possible to run "secretfile.asp" by using:

"/AuthNeeded:\$i30:\$INDEX_ALLOCATION/secretfile.asp" (Fig. 3)

Instead of:

"/AuthNeeded/secretfile.asp"

Authentication Methods					
Anonymous access No user name/password required to access this resource.					
Account used for anonymous access:					
<u>U</u> ser name:	TEST		Browse		
Password:	•••••		1		
	Allo <u>w</u>	IIS to control password	-		
Authenticated access For the following authentication methods, user name and password are required when - anonymous access is disabled, or - access is restricted using NTFS access control lists ✓ Digest authentication for Windows domain servers ✓ Basic authentication (password is sent in clear text)					
Default <u>d</u> o	main:		Select		
<u>R</u> ealm:		TEST	S <u>e</u> lect		
✓ Integrated Windows authentication					
OK Cancel <u>H</u> elp					



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If you believe you should be able to page, please contact the Web site a e-mail address or phone number lis www.victim.com home page. HTTP 401.2 - Unauthorized: Logon failed du Internet Information Services		
 Technical Information (for support personnel) Background: This is usually caused by a server-side script not sending the proper www-Authenticate header field. Using Active Server Pages scripting this is done by using the AddHeader method of the Response object to request that the client use a certain authentication method to access the resource. More information: Microsoft Support 		

Figure 2- Protected Directory

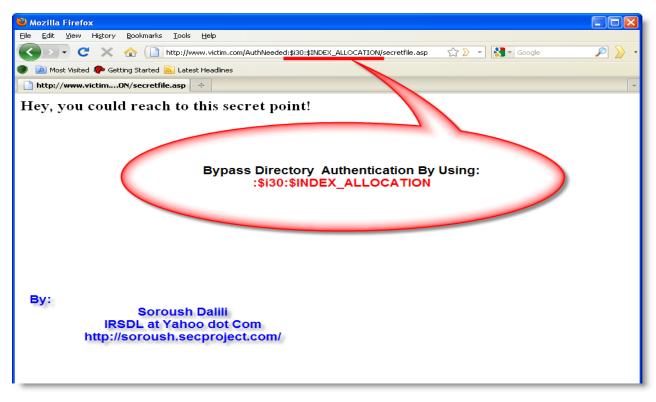


Figure 3- Bypassing the authentication by using ADS