Paypal Manager Account Hijack

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Content

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Author Mark Litchfield - mark[at]Securatary[dot]com For all new vulnerabilities http://twitter.com/securatary PayPal Manager Admin Account Hijack

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What is PayPal Manager PayPal Manager is used to manage your Payflow account Summary:

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This attack required a number of steps and obstacles to overcome in order to hijack another Admins merchant account by means of changing their password. PayPal had gone to considerable lengths (more so than others) to ensure the security of this portal. In short the hack consisted of: 1) Enumeration of account information requiring a valid Partner ID and Vendor ID to request a new password. We needed valid account information 2) After entering valid credentials you are then prompted for a security question in-order for an email to be sent contianing the password reset link. So we need an attack to bypass the security question 3) After entering the correct information, and email is sent to the registered address containing a link. We needed an attack to be able to get this link / bypass / the email link process 4) Once you have successfully changed you password, you are then presented with another security screen asking for yet another security question as (based on a live hack), you are logging in for the ifrst time from a diferent IP address. So we needed an attack to bypass the security question or IP address restriction 5) Once in, you have access to the administrators PII and their customers. And seeing as my last few attacks allow for free shopping, why stop there. Place an order, then using the virtual terminal go and credit your money back to your account / credit card Alternatively you could just manually create your

own order and charge yourself a $1.00. The Hack: Step (1) - Account Enumeration At this point we select Customize and Preview and catch our request within Burp

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Send your GET request to Intruder In our example, we are simply going to use the builtin username dictionary that comes with Burp

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Start your enumeration If a response contains a length of around 1800 2010 bytes we do not have a winner, as shown below.

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Lengths greater than 2010 are winners

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So looking at a login screen, we can now fill two of the required three parameters Step (2) Bypassing the Security Question To do this, we need to first reset our own password. The following screens show this process.

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At this point, catch your POST request and send to Repeater to be used again shortly

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Continue to Login, but select Forgot password feature. In this example, we are attacking another merchant account I set up Here is the POST request, what is important to note is we are re-using the same token. So once hackthis

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We are then returned the security question. Just for good measure, we enter any arbitrary answer to ensure the token is 100% set with HackThis. For ease also, send this request to repeater You are all set, by loading repeater with the above mentioned requests you have just bypassed the Security question Step-(3) Changing the Password Now we go to repeater copy the cookie value from the Hackthis request we just made Now we go to our original request we also sent to repeater for changing our own password. We replace the cookie value for good measure, and ALSO REMOVE the HTTP Referer header field. Submit your request.

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