



Hillai Ben-Sasson @hillai Wed Mar 29 18:33:13 +0000 2023

I hacked into a @Bing CMS that allowed me to alter search results and take over millions of @Office365 accounts.

How did I do it? Well, it all started with a simple click in @Azure... ■

This is the story of #BingBang ■■■■ <https://t.co/9pydWvHhJs>

BEFORE
AFTER

My research started when our Research Team at @wiz_io first noticed a strange configuration in Azure. A single checkbox is all that separates an app from becoming “multi-tenant” – which by default, allows ALL USERS to log in.

<https://t.co/B8EgUEENod>

Identity provider * Microsoft

App registration

An app registration associates your identity provider with your app. Enter the app registration information here, or go to your provider to create a new one. [Learn more](#)

App registration type *

- Create new app registration
- Pick an existing app registration in this directory
- Provide the details of an existing app registration

Name * hillai-appsvc-test

Supported account types *

- Current tenant - Single tenant
- Any Azure AD directory - Multi-tenant
- Any Azure AD directory & personal Microsoft accounts
- Personal Microsoft accounts only

I found a Microsoft app configured like this, and... just logged in ■■■■■■

My user was immediately granted access to this “Bing Trivia” page. Don’t let the name fool you – it controls much more than just trivia. In fact, as I came to find out, it can control ACTUAL SEARCH RESULTS ■ <https://t.co/fhBvwtCQ7q>

Here you can see my personal inbox being read on our “attacker machine”, using the exfiltrated Bing token:
<https://t.co/f6aHiXYWvD>

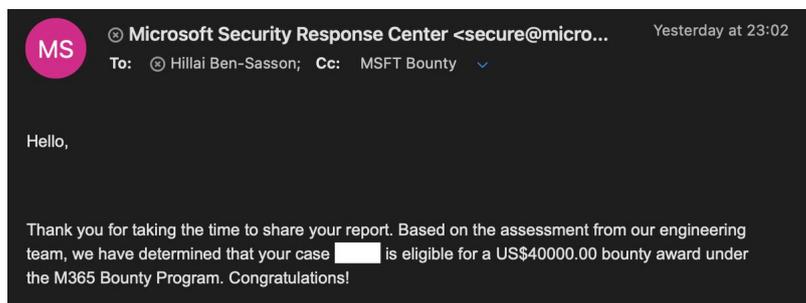
```
bing -- python get_mails.py
From: Sagi Tzadik <sagi.tzadik@wiz.io>
To: Hillai Ben-Sasson
Subject: Something only you should know
Date: 2023-02-02T12:25:05.4865264Z
It is important to keep this as a secret ...

From: Microsoft Security Response Center <secure@microsoft.com>
To: Hillai Ben-Sasson
Subject: MSRC - Acknowledgement Notification VULN-[REDACTED] CRM: [REDACTED]
Date: 2023-01-31T19:59:51.1433381Z
Hello, Thank you for contacting the Microsoft Security Response Center (MSRC). Your report has been received and you should receive a follow-up message from the case manager once ...

From: Microsoft Security Response Center <secure@microsoft.com>
To: Hillai Ben-Sasson
Subject: MSRC Case [REDACTED] CRM: [REDACTED]
Date: 2023-01-31T21:22:56.7184965Z
Thank you for contacting the Microsoft Security Response Center (MSRC). I've opened a case for this issue: MSRC Case [REDACTED] Please use this email thread--do not modify or remove the...

From: Sagi Tzadik <sagi.tzadik@wiz.io>
To: Hillai Ben-Sasson
Subject: Very Important message
Date: 2023-02-02T12:24:21.6238186Z
This is very important ...
```

[@msftsecresponse](#) quickly responded to our report, fixed the vulnerable applications, and introduced some AAD product and guidance changes to help customers mitigate this issue. For this, they awarded us with \$40,000 bug bounty, which we will donate <https://t.co/sV4rtTiqCy>



Read the full technical details here >>

<https://www.wiz.io/blog/azure-active-directory-bing-misconfiguration>

Check out our full attack flow here >>

<https://youtu.be/hctqRgQW4IU>