#BugBounty — How I was able to download the Source Code of India's Largest Telecom Service Provider including dozens of more popular websites!

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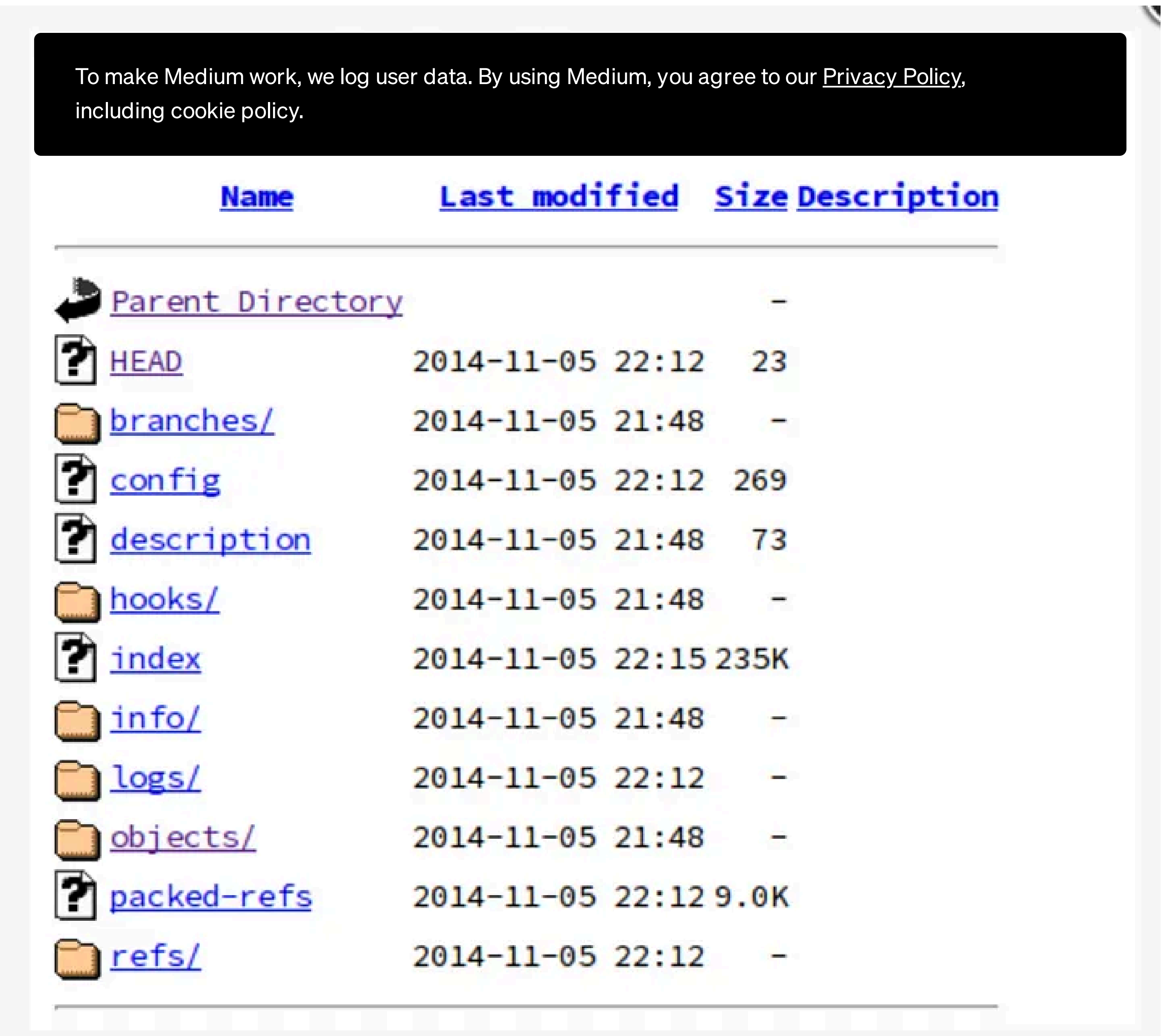
Hi Guys,

Recently, we came across a news of source code leakage of Snapchat where hacker downloaded the complete source code of the website and put it over Github. *In the last couple of years, a widespread misconfiguration has come into the picture and being exploited hugely where inexperienced web application developers happened to inadvertently leave key components of their Git repositories publicly accessible — potentially giving anyone access to sensitive source code, access keys, passwords and more.* So under the same light, I started working to discover and find vulnerabilities related to the same Git misconfiguration and through which I was able to access the source code of



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Name	Last modified	Size	Description
Parent Directory		-	
HEAD	2014-11-05 22:12	23	
branches/	2014-11-05 21:48	-	
config	2014-11-05 22:12	269	
description	2014-11-05 21:48	73	
hooks/	2014-11-05 21:48	-	
index	2014-11-05 22:15	235K	
info/	2014-11-05 21:48	-	
logs/	2014-11-05 22:12	-	
objects/	2014-11-05 21:48	-	
packed-refs	2014-11-05 22:12	9.0K	
refs/	2014-11-05 22:12	-	

Git directory exposed

In order to recursively download every file from the repository, **wget** do this awesomely — wget –r https://www.example.com/.git. Now once you are able to download the complete .git folder, a little git command line knowledge could be fetching the git objects for you. Some of the sites for the reference are-

https://en.internetwache.org/dont-publicly-expose-git-or-how-wetool- Sublist3r which basically enumerate subdomain of a parent domain fr

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directory named as Git-dumper which in actual checks whether the .git directory is being indexed and then download the git directory. I basically merged the code of both the scripts, made some small changes in the code named it as *git-domian.py* and which does the following things for me —

1. git-domain.py expect a file as an input containing the list of all the main domains separated by a line.
2. It traverses each domain(line) one by one to find it's subdomain and check for .git directory if publically exposed or not in each of the subdomains.
3. If yes, then it recursively downloads the complete git folder of the particular subdomain and saves it in a folder.

So this is what I did, prepared a list of various large, medium, and small scaled popular companies having public/private bug bounty program/responsible disclosure policies, give it to git-domain.py —

```
(avi) ➜ git-domain git:(0540930) ✗ python3 git-domain.py domain_list.txt
```

and rest what I got is the complete git folder downloaded of dozens of

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complete source code of their website some of which had their main domain source code leaked while some of them have the same misconfiguration in their subdomain.

Git directory files

Source code access

Mitigation Step

Web server administrator or developers have to make sure that the .git directory is not being indexed and the directory, sub-directories, and all files are inaccessible using server permission rules. Furthermore, the .gitignore file should be used to ensure sensitive files are properly ignored and not mistakenly added. The simplest way to mitigate this is to just deny access to `.git` folders.

> *<DirectoryMatch "^/.*/\.git/">*
>
> *Require all denied*

Written by Avinash Jain (@logicbomb)

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