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# CHAPTER 3

## Google Hacking

Using internet search engine as a  
tool to find information related to

1 of 34

# 3 google hacking

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## 3 google hacking

1. CHAPTER 3 Google Hacking Using internet search engine as a tool to find information related to creativity & innovation 1

2. INTRODUCTION • Google Hacking refers to the technique of using Google Search to find security holes in the configuration and code that websites use. • Searches can reveal sensitive information, such as username/passwords, internal documents, etc. The techniques are commonly used during penetration testing. • Google Hacking is based on using structured searches with advanced operators to quickly and accurately obtain results. 2

3. WE will cover..... 3 ▾ Google Introduction & Features ▾ Google Search Technique ▾ Google Basic Operators ▾ Google Advanced Operators

4. • Google Search Technique – Just put the word and run the search • You need to audit your Internet presence – One database, Google almost has it all! • One of the most powerful databases in the world • Consolidate a lot of info • Usage: – Student ... – Business ... – Al'Qaeda ... • One stop shop for attack, maps, addresses, photos, technical information 4 Google Hacking

5. 5

6. • Google Operators: – Operators are used to refine the results and to maximize the search value. They are your tools as well as hackers' weapons • Basic Operators: +, -, ~, ., \*, "", |, OR • Advanced Operators: – allintext:, allintitle:, allinurl:, bphonebook:, cache:, define:, filetype:, info:, intext:, intitle:, inurl:, link:, phonebook:, related:, rphonebook:, site:, numrange:, daterange 8 Google Hacking

7. • Basic Operators – (+) force inclusion of something common – Google ignores common words (where, how, digit, single letters) by default: Example: Star Wars Episode – (-) exclude a search term Example: apple -red – ("") use quotes around a search term to search exact phrases: Example: "Robert Masse" – Robert masse without "" has the 309,000 results, but "robert masse" only has 927 results. Reduce the 99% irrelevant results 9 Google Hacking

8. • Basic Operators – (~) search synonym: Example: ~food – Return the results about food as well as recipe, nutrition and cooking information – ( . ) a single-character wildcard: Example: m.trix – Return the results of M@trix, matrix, metrix..... – ( \* ) any word wildcard 10 Google Hacking

9. • Advanced Operators: "Site:" – Site: Domain\_name – Find Web pages only on the specified domain. If we search a specific site, usually we get the Web structure of the domain – Examples: site:ca site:gosecure.ca site:www.gosecure.ca 11 Google Hacking

10. 12

11. Further refining the search: • After site:pacific.edu, type in login | logon and run the search. • login | logon finds login pages associated with any particular website – the significance of this is that login pages are the "front door" and often reveal the nature of the operating system, software, and even offer clues for gaining access to the site. 13

12. 14

13. • Several variations of basic Google searches like the login | logon are:.. – username | userid | employee.ID | "your username is" – admin | administrator – password | "your password is" – error | warning 15

14. • Advanced Operators: "Filetype:" – Filetype: extension\_type – Find documents with specified extensions – The supported extensions are: - HyperText Markup Language (html) - Microsoft PowerPoint (ppt) - Adobe Portable Document Format (pdf) - Microsoft Word (doc) - Adobe PostScript

(ps) - Microsoft Works (wks, wps, wdb) - Lotus 1-2-3 - Microsoft Excel (xls) (wk1, wk2, wk3, wk4, wk5, wki, wks, wku) - Microsoft Write (wri) - Lotus WordPro (lwp) - Rich Text Format (rtf) - MacWrite (mw) - Shockwave Flash (swf) - Text (ans, txt) – Example: Budget filetype: xls 16 Google Hacking

15. • Advanced Operators – A budget file we found ..... 17 Google Hacking

16. 18

17. • Advanced Operators “Intitle:” – Intitle: search\_term – Find search term within the title of a Webpage – Allintitle: search\_term1 search\_term2 search\_term3 – Find multiple search terms in the Web pages with the title that includes all these words – These operators are specifically useful to find the directory lists – Example: Find directory list: Intitle: Index.of “parent directory” 19 Google Hacking

18. 20

19. Examples of other uses of intitle: • intitle:index.of mp3 jackson – Brings up listings of files and directories that contain “mp3” and “jackson.” • intitle:index.of passwd passwd.bak – similar for password files • intitle:error/intitle:warning – Finds error, warning pages, often revealing server version numbers 21

20. • Advanced Operators “Inurl:” – Inurl: search\_term – Find search term in a Web address – Allinurl: search\_term1 search\_term2 search\_term3 – Find multiple search terms in a Web address – Examples: Inurl: cgi-bin Allinurl: cgi-bin password 22 Google Hacking

21. 23

22. • Advanced Operators “Intext:” – Intext: search\_term – Find search term in the text body of a document. – Allintext: search\_term1 search\_term2 search\_term3 – Find multiple search terms in the text body of a document. – Examples: Intext: Administrator login Allintext: Administrator login 24 Google Hacking

23. 25

24. • Advanced Operators: “Cache:” – Cache: URL – Find the old version of Website in Google cache – Sometimes, even the site has already been updated, the old information might be found in cache – Examples: Cache: www.gosecure.com 26 Google Hacking

25. 27

26. • Advanced Operators “Link:” – Link: URL – Find the Web pages having a link to the specified URL – Related: URL – Find the Web pages that are “similar” to the specified Web page – info: URL – Present some information that Google has about that Web page – Define: search\_term – Provide a definition of the words gathered from various online sources – Examples: Link: gosecure.ca Related: gosecure.ca Info: gosecure.ca Define: Network security 28 Google Hacking

27. 29

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29. 31

30. • Advanced Operators “phonebook:” – Phonebook – Search the entire Google phonebook – rphonebook – Search residential listings only – bphonebook – Search business listings only – Examples: Phonebook: robert las vegas (robert in Las Vegas) Phonebook: (702) 944-2001 (reverse

search, not always work) The phonebook is quite limited to U.S.A 32 Google Hacking

31. 33

32. 34

33. • Google, Friend or Enemy? – Google is everyone’s best friend (yours or hackers) – Information gathering and vulnerability identification are the tasks in the first phase of a typical hacking scenario – Passive, stealth and huge data collection – Google can do more than search – Have you used Google to audit your organization today? 35 Google Hacking

34. Class Tutorial • Create a specific search for something, adding search operators to narrow the results. Show the search you used to get the most specific results. \_\_\_\_\_ • Google for yourself. Can you find any images of yourself? Any pages that list your address, phone, etc.? Any that you were not aware of? \_\_\_\_\_ • There are at least two ways to keep Google from indexing content. What are they? • What was the most interesting search you tried, and why? 36

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