UNIVERSITY of WASHINGTON

Hacking 310

Lesson 3: Non-Invasive Reconnaissance

Learning Objectives

After completing this lesson, students will be able to:

1. Conduct a Google Search of an organization for exposed files and/or information.
2. Conduct a Whois lookup of a domain and understand the results.
3. Conduct an extended sub-domain search and identify additional targets.
4. Use the basic functions of Maltego to create a case.

Exposed Files and/or Information

Open source recon tools:

- Google Hacking Database (GHDB) aka Google Dorking aka Google Search Parameters
- Whois.net / GoDaddy Domain Search
- Pentest-Tools.com
- SearchDiggity from Bishop Fox
- FOCA / Evil FOCA from ElevenPaths

Challenge: Google Hacking

Navigate to the Google Hacking Database and identify a Google Dork that would be helpful in discovering information that a company may not want to be discovered. Copy and paste that Google Dork into chat with an explanation of what it finds and why it's bad.

How could an organization use these Google Dorks to help defend their internet presence?

What is a WhoIs Lookup?

WhoIs standard:

- Public Domain Entities
- Private Domain Registrars

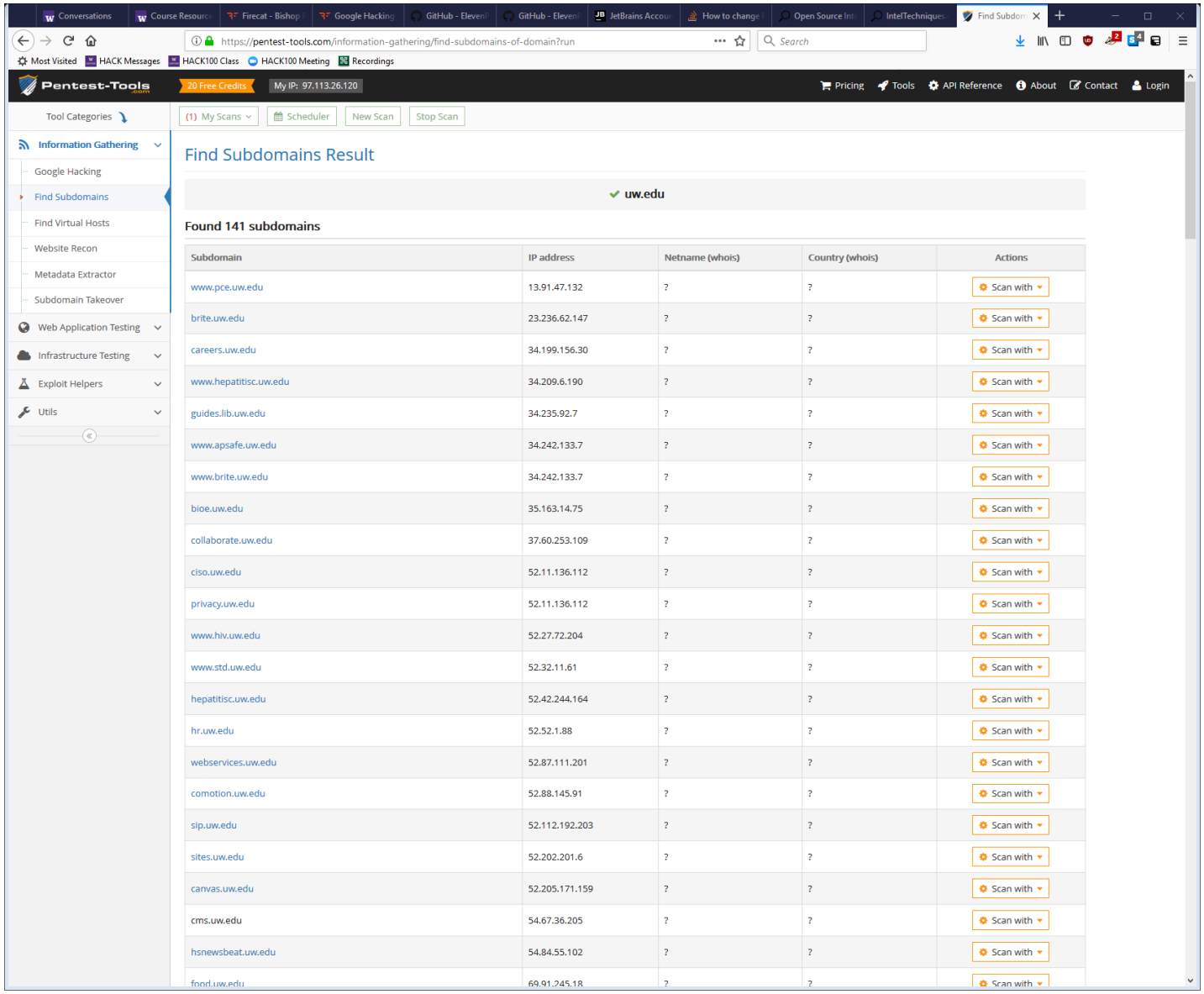
WhoIs: uw.edu

```
Domain Name: UW.EDU

Registrant:
   University of Washington
   4545 15th Ave NE
   Suite 400
   Seattle, WA 98105-4527
   UNITED STATES

Administrative Contact:

   UW Network Operations Center
   University of Washington
   4545 15th Avenue NE
   Box 354840 UW-IT NOC
   Seattle, WA 98105-4527
   UNITED STATES
   (206) 221-6000
   uw-noc@uw.edu

Technical Contact:

   UW Network Operations Center
   University of Washington
   4545 15th Avenue NE
   Box 354840 UW-IT NOC
   Seattle, WA 98105-4527
   UNITED STATES
   (206) 221-6000
   uw-noc@uw.edu

Name Servers:
   HANNA.CAC.WASHINGTON.EDU
   MARGE.CAC.WASHINGTON.EDU
   HOLLY.S.UW.EDU                173.250.227.69,
     2607:4000:301:1::69

Domain record activated:    05-Mar-1999
Domain record last updated: 14-Jul-2015
Domain expires:             31-Jul-2018
```

WhoIs: scarletsecurity.com

```
Domain Name: scarletsecurity.com
Registry Domain ID: 1835877116_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.gandi.net
Registrar URL: http://www.gandi.net
Updated Date: 2017-10-15T00:29:16Z
Creation Date: 2013-11-18T07:01:23Z
Registrar Registration Expiration Date: 2018-11-18T07:01:23Z
Registrar: GANDI SAS
Registrar IANA ID: 81
Registrar Abuse Contact Email: abuse@support.gandi.net
Registrar Abuse Contact Phone: +33.170377661
Reseller: Amazon Registrar, Inc.
Domain Status: clientTransferProhibited
      http://www.icann.org/epp#clientTransferProhibited
Domain Status:
Domain Status:
Domain Status:
Domain Status:
Registry Registrant ID:
Registrant Name: Domain Contact
Registrant Organization: Scarlet Security LLC
Registrant Street: Obfuscated whois Gandi-63-65 boulevard Massena
Registrant City: Obfuscated whois Gandi-Paris
Registrant State/Province: Paris
Registrant Postal Code: 75013
Registrant Country: FR
Registrant Phone: +33.170377666
Registrant Phone Ext:
Registrant Fax: +33.143730576
Registrant Fax Ext:
Registrant Email: 144c878b0b3b33d3a52a454f7d6d1f4e-
      4346891@contact.gandi.net
Registry Admin ID:
Admin Name: Domain Contact
Admin Organization: Scarlet Security LLC
Admin Street: Obfuscated whois Gandi-63-65 boulevard Massena
Admin City: Obfuscated whois Gandi-Paris
Admin State/Province: Paris
Admin Postal Code: 75013
Admin Country: FR
Admin Phone: +33.170377666
Admin Phone Ext:
Admin Fax: +33.143730576
Admin Fax Ext:
Admin Email: 144c878b0b3b33d3a52a454f7d6d1f4e-4346891@contact.gandi.net
Registry Tech ID:
Tech Name: Domain Contact
Tech Organization: Scarlet Security LLC
Tech Street: Obfuscated whois Gandi-63-65 boulevard Massena
Tech City: Obfuscated whois Gandi-Paris
Tech State/Province: Paris
Tech Postal Code: 75013
Tech Country: FR
Tech Phone: +33.170377666
Tech Phone Ext:
Tech Fax: +33.143730576
Tech Fax Ext:
Tech Email: 144c878b0b3b33d3a52a454f7d6d1f4e-4346891@contact.gandi.net
Name Server: NS-616.AWSDNS-13.NET
Name Server: NS-1619.AWSDNS-10.CO.UK
Name Server: NS-418.AWSDNS-52.COM
Name Server: NS-1172.AWSDNS-18.ORG
Name Server:
Name Server:
Name Server:
Name Server:
Name Server:
Name Server:
DNSSEC: Unsigned
```

Sub-Domain Search: uw.edu



Maltego

Introduction to Maltego:

- Maltego Transforms
- Maltego Automated Machines

User Guide: https://docs.paterva.com/en/user-guide/