

# THE XDEDIC MARKETPLACE

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# **Executive summary**

Over last two years a new kind of underground market has flourished, and xDedic is a perfect example.

"xDedic" is a trading platform where cybercriminals can purchase any of over 70,000 hacked servers from all around the internet. It appears to be run by a Russian-speaking group of hackers.

The forum provides members with tools to patch RDP (Remote Desktop Protocol) servers to support multiple user logins, as well as other hacking tools, such as proxy installers and sysinfo collectors. The main goal of the xDedic forum is to facilitate the buying and selling of credentials for hacked servers which are available through RDP.

From governmental networks to corporations, it is possible to find almost anything on xDedic for as little as 6 USD per server. This one-time cost provides a malicious "customer" with access to all the data on the server and endless other possibilities, such as using the access to launch further attacks.

To investigate xDedic, Kaspersky Lab teamed up with a European ISP. This research allowed us to collect data about the victims and the way the marketplace operates.

#### This report in a nutshell:

- Description of the xDedic marketplace and its offering.
- Statistics about servers for sale and their profile.
- How the attackers get access to the servers.
- What tools and Trojans they install in the hacked servers.
- High profile victims with hacked servers on the market.
- Attribution of the administrators of the forum.

For more information contact: <a href="mailto:intelreports@kaspersky.com">intelreports@kaspersky.com</a>



# The Marketplace

The marketplace is located at the domain xdedic[.]biz and anyone can register to use it. New members need to use their account within 72 hours of registration, otherwise the account is automatically removed unless they pay a fee of 10 USD.

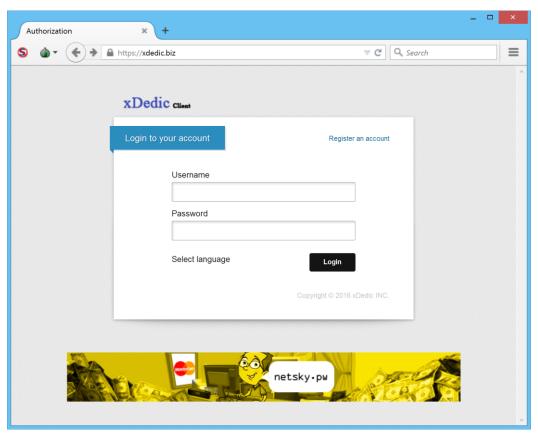


Figure 1. xDedic main login

During registration, the user is asked to provide either an e-mail address or a Jabber account. In the case of Jabber-account based registration, a confirmation code is sent in order to validate the account.

We strongly advice not to register to the xDedic marketplace, as any activity in the marketplace might be in dangerous or even illegal.

According to an analysis of the information available in the marketplace, the service was started some time in 2014 and gained major popularity in the middle of 2015 when over 3,000 servers were added to the marketplace. Since then many new offerings have been posted and re-posted on the forum.



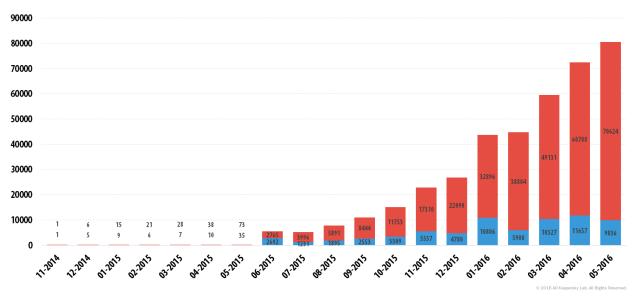


Figure 2. Marketplace activity in number of new server offerings

Once logged into the forum, the user can access a Dashboard with general news as well as a page with a list of servers available for purchase.

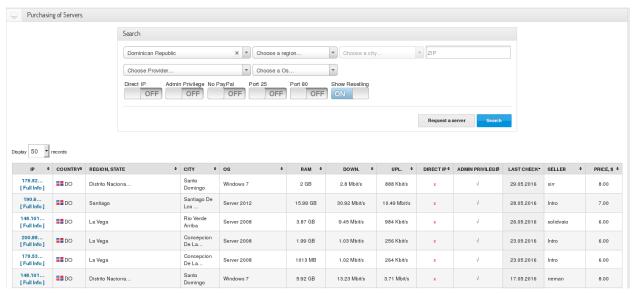


Figure 3. Servers purchase form

For each server, detailed information such as price, location, speed, anti-virus installed, etc. is provided.



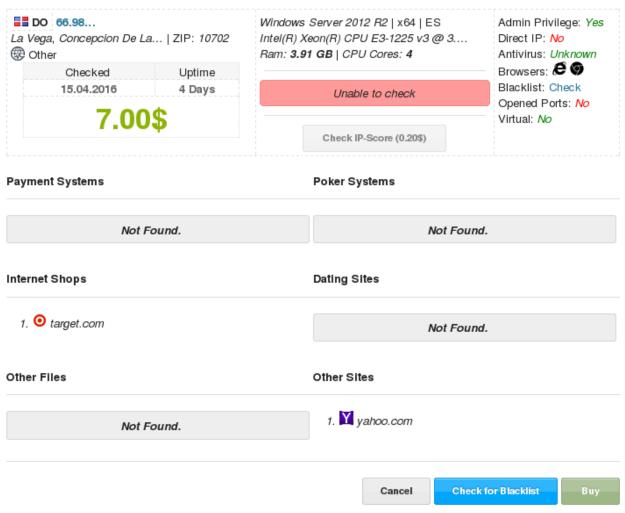


Figure 4. Additional server details

The owners of xdedic[.]biz claim not to be related to the sellers of hacked server access, but only to provide a secure trading platform for others. It is possible to see the seller's nickname in the list of available servers (see Figure 2).

As of May 2016, access to 70,624 dedicated servers worldwide was offered for sale.



78.40 [ Full Info ]	SS GB	England	Manchester	Server 2012 R2
50.207 [ Full Info ]	<b>■</b> US	Georgia	Atlanta	Server 2008 R2
64.60 [ Full Info ]	<b>■</b> US	California	Torrance	Windows 7
78.40 [ Full Info ]	SIS GB	England	Manchester	Server 2012 R2

Showing 1 to 50 of 71,160 records

Figure 5. Number of servers available

# **Detailed statistics of available servers**

In March 2016, the sales inventory included access to **51,752 servers** from **183 countries**, located in **11,050** different **subnets**. There were **425 unique sellers** on the marketplace.

In May 2016, we counted **70,624** servers from **416** unique sellers in **173** affected countries. This shows that the database of users and servers is carefully maintained.

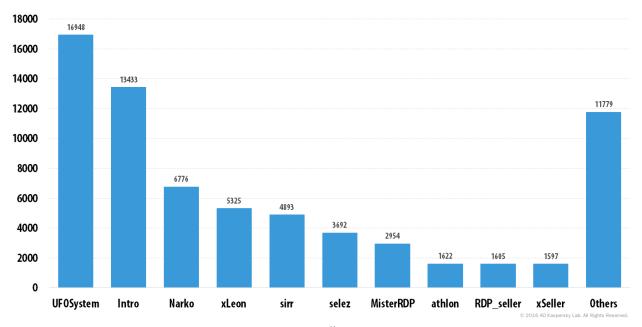


Figure 6. Top 10 sellers - May 2016



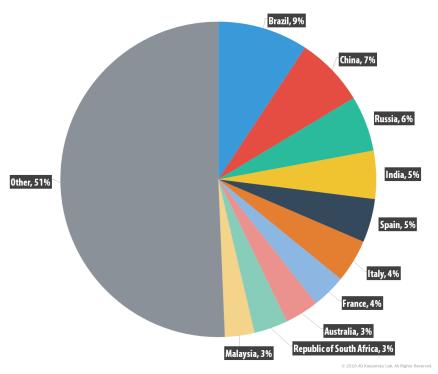


Figure 7. Top 10 countries with servers on sale - May 2016

Detailed information on the TOP 20 affected countries (as of May 2016) is provided below:

Num of offerings	Country Code
6540	BR
5023	CN
4020	RU
3488	IN
3155	ES
3119	IT
2474	FR
2448	AU
2438	ZA
2140	MY
1767	GB
1460	MX
1413	CO
1395	US
1296	DE
1292	PL
1236	TW
1224	UA
1217	AR
1204	TR
22275	Other



The RDP servers can be used by cybercriminals in many different ways. That's why the marketplace tags the RDP servers that have been proven, through specific testing, not to have been blacklisted by certain online resources. The owners of xDedic owners have developed a tool that can automatically collect information about the system, including websites that are available from it, any software installed and so on.



Figure 8. RDP server tags

The tags provide a broad overview of the cybercriminals' focus in 2016.

Online Gambling and Betting	Online Shops and Trading	Banks and Payment Systems
Online Gambling and Betting  188bet.com 21novacasino.com 32redpoker.com 770.com 888poker.com Amateurmatch.com bet365.com betfair.com boylepoker.com bwin.com es.towertorneos.com fulltiltpoker.com ipoker.com keller.sports.de leonbets.net	airbnb.com amazon.com bestbuy.com bhphotovideo.com craiglist.org ebay.com farfetch.com lowes.com newegg.com officedepot.com qvc.com sears.com steampowered.com store.apple.com target.com	aib.ie barclaycardus.com capitalone.com chase.com chaseonline.chase.com coinbase.com entropay.com liqpay.com money.yandex.ru open24.ie payeer.com paysurfer.com perfectmoney.com
luckyacepoker.com mansion.com	walmart.com	qiwi.com suntrust.com



match.com partypoker.com poker.paddypower.com

pokerstars.eu redstarpoker.eu sportingbet.com sportingbet.ru titanpoker.com unibet.com williamhill.com skrill.com webmoney.ru wellsfargo.com westernunion.com

Dating Websites	Ad Networks	ISP/Cell phone operators
amateurmatch.com cupid.com date.com datehookup.com meetic.com meetme.com zoosk.com	adwords.google.com exoclick.com juicyads.com plugrush.com popads.net zeropark.com	att.com business.att.com sprint.com verizonwireless.com vzw.com verizon.com

E-Mail providers	Browsers and IM	Other
gmail.com hotmail.com yahoo.com	Chrome Firefox Internet Explorer Opera Skype Steam	indeed.com sendspace.com skype.com starbucks.de swiftunlocks.com ups.com whoer.net

In addition to the lists of public websites and common software, there is specific link to software that could be used as a source of fraudulent money. While the criminals sometimes install additional software in the controlled system (for newly created users only) the list of software below was preinstalled by the legitimate owner of the system. In the case of some proxifiers or mass-email sending software, these pre-installed features can be leveraged by the criminals to send out spam or use proxy software without arousing suspicion.

There is a strong interest in accounting, tax reporting and point-of -sale (PoS) software which apparently opens up many opportunities for fraudsters.



Spam and Attacking Tools	Gambling and Financial Software	POS Software
Advanced Mass Sender Bitvise Tunnelier DU Brute LexisNexis Spam Soft LexisNexis Proxifier Proxifier Spam Soft	Full Tilt Poker iPoker Network UltraTax 2010 (2011,,2015) Abacus Tax Software CCH tax14 (tax15) CCH Small Firm Services ChoicePoint ProSeries TAX (2014,2015) ProSystem fx Tax TAX Software 2015 Tax Praparation Tax Management Inc. Lacerte Tax	PosWindows BrasilPOS POS AccuPOS POS AccuPOS POS Active-Charge POS Amigo POS Catapult POS Firefly POS ePOS POS EasiPos POS Revel POS Software (Generic) POS Toast POS QBPOS PosTerminal POS kiosk.exe POS roi.exe POS PTService.exe POS pxpp.exe POS w3wp.exe POS DpsEftX.ocx POS AxUpdatePortal.exe POS CallerIdserver.exe POS YPS.exe POS XPS.exe POS XChgrSrv.exe

We counted **453 servers** from **67 countries** with PoS software installed:



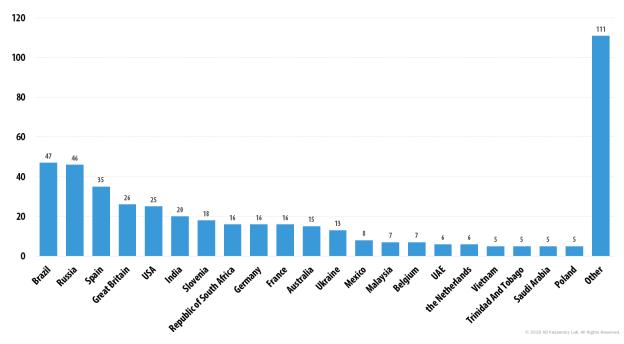


Figure 9. Servers for sale with Point-of-Sale software - May 2016

#### The xDedic validator tool

There is a separate portal for the so-called "partners" of the xDedic forum. These are essentially the sellers who are offering the hacked servers on the market. The partners' portal is password-protected and can be found at "partner.xdedic[.]biz":

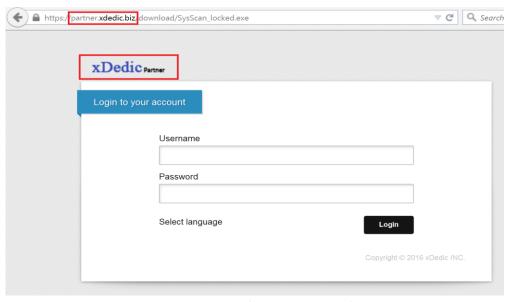


Figure 10. xDedic partners portal



The partner's portal has a different set of tools available for download. From these, the most interesting is "SysScan". "SysScan" is a validator tool used by xDedic partners to profile servers which are to be made available for sale on the main forum.

We were able to find several versions of "SysScan", listed below by their MD5s:

- fac495be1c71012682ebb27092060b43
- e8cc69231e209db7968397e8a244d104
- a53847a51561a7e76fd034043b9aa36d
- e8691fa5872c528cd8e72b82e7880e98
- F661b50d45400e7052a2427919e2f777

The "SysScan" tool connects to a C&C server in order to report information about the system once it is executed. The information reported includes:

- Server\_ID, Username
- Windows version
- System Language
- if system is 64 bits or not
- size of installed memory
- CPU type
- if ports 25 and 80 are open
- if the system is virtual or physical
- what type of VM software is used
- Antivirus software, if any

Then it checks the server's upload and download speeds using a set of speed-check scripts. Finally, it checks what kind of software is installed in the system (see the list of available software above).

# Copied! Press enter key... PavSched.exe=Panda, WasAgent.exe=Panda, psksvc.exe=Panda, WASLPMNG.exe=Panda, WASLPMNG.ex s.exe=McAfee, fsm32.exe=FSecure, kavfs.exe=Kaspersky, kavfswp.exe=Kaspersky Tax=Intuit Inc.:5, W-2 Pro=1099 Pro Inc.:5, Abacus Tax Software=Abacus Tax Software:5, CFS TaxToo tware:5, barnetPOS.exe=POS Software:5, Catapult.exe=POS Software:5, CozyPOS.exe=POS Software:5, Opera.exe=Opera:7, opera.dll=Opera:7, Firefox.exe=Firefox:7, FirefoxPortable.exe=FirefoxPortable:7, ChuckyAcePoker.exe=luckyacepoker.com:2, creditcardservice.exe=PosTerminal:5, ackterm.exe=PosTerm=32redpoker.com:2, swiftunlocks.com=swiftunlocks.com:3, amateurmatch.com=amateurmatch.com:2, sson.no=betsson.no:2, chase.com=chase.com:1, chaseonline.chase.com=chaseonline.chase.com=chase.com:1, most of the properties o

Figure 11. Example of software information gathered



After gathering all this information, the SysScan tool encrypts it with AES using a hardcoded derived password (- k8iJGx3oGo) and posts the data to the C&C in the /manual\_result path.

This tool also checks if the RDP service is available and patches it if needed. It also adds the following modifications to the Windows registry:

 $\label{thmsystem} $$HKLM\SYSTEM\CurrentControlSet\Control\Terminal\ Server\WinStations\RDP-Tcp" /v UserAuthentication /t REG_DWORD /d$ 

HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\TerminalServer\WinStations\RDP-Tcp" /v UserAuhentication /t REG DWORD /d 1 /f& reg delete

HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System" /v
legalnoticecaption /f& reg delete

HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System" /v
legalnoticetext /f

The following is a list of all the known C&Cs that Syscan uses to send its results:

- http://37.49.224[.]144:8189/manual\_result
- http://37.49.224[.]144/ptest.php
- http://37.49.224[.]144/sp.php
- http://37.49.224[.]144/test\_servers.xml
- http://37.49.224[.]144/gfileset.php
- hxxp://5.56.133[.]145
- http://191.101.31[.]126/ptest.php
- http://191.101.31[.]126/sp.php
- http://191.101.31[.]126/test\_servers.xml
- http://191.101.31[.]126/gfileset.php
- http://191.101.31[.]126:8189/manual\_result

Interestingly, the C&C server at 191.101.31[.]126 has a very specific banner on port 8189:



Figure 12. xDedic C&C banner



# Hacking the servers

When we started our investigation, the assumption was that xDedic partners use brute-forcing attacks in order to get access to the servers they control. On a machine where the xDedic validator tool (sysscan.exe) was detected, we also found tools that specialized in performing brute-force attacks against RDP servers, such as DUBrute and XPC (detected as Hacktool.Win32.Bruteforce). Later, we were able to confirm this hypothesis with one of the victims.

# The SCCLIENT Trojan

Thanks to a partner in our investigation, we were able to analyse a server that had been hacked and put up for sale on the xDedic market. This section provides some information about the very interesting malware found on it.

Once the server was compromised by the attackers through RDP password brute-forcing, they installed a custom piece of malware in the path "/Windows/System32/scclient.exe" and registered it as a service that would start automatically upon system boot. Interestingly, the attackers also installed bitcoinmining software, to use the idle time while they waited for a buyer for the server.

This SCClient Trojan connects to one of eight C&C servers:

- q968787.ignorelist[.]com:32973
- q968787.mooo[.]com:32973
- q968787.homenet[.]org:32973
- q968787.strangled[.]net:32973 SINKHOLED by Kaspersky Lab
- q96b7b7.ignorelist[.]com:32973
   SINKHOLED by Kaspersky Lab
- q96b7b7.mooo[.]com:32973 SINKHOLED by Kaspersky Lab
- q96b7b7.homenet[.]org:32973 SINKHOLED by Kaspersky Lab
- q96b7b7.strangled[.]net:32973 SINKHOLED by Kaspersky Lab

We were able to sinkhole five of them, which allowed us to collect information about other hacked servers running the same malware. During the first 12 hours, we received connections from over 3600 unique IPs.



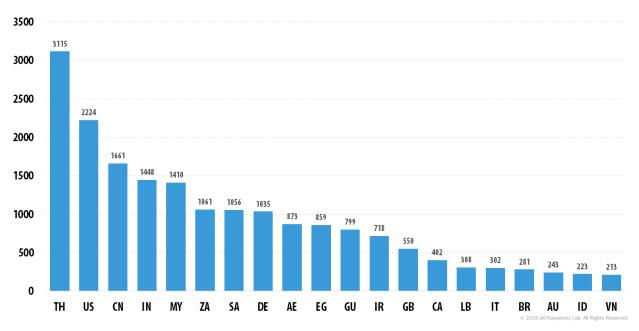


Figure 13. Victim servers hitting our sinkhole during the first 12 hours

We were able to identify some high profile victims such as Governmental entities and universities. During the investigation, we worked with several partners which allowed us to notify some of the victims about the infections in their networks.

# **xDedic Socks System tool**

In one of the topics opened by the xDedic team in the forum vor[.]ac, another piece of software was introduced. They call it the xDedic Socks System:

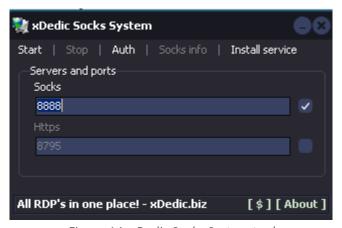


Figure 14. xDedic Socks System tool

This is actually a wrapper for a popular proxy tool known as "3proxy tiny proxy". The xDedic Socks System can install the 3proxy tool in the system with the click of a button.



The tool basically opens the chosen ports (by default 8975 for SOCKS and 8795 for HTTPS) on the infected server, turning it into a SOCKS or HTTPS proxy, with or without password-protection.

The tool could be run as a service. In order to do that, it simply drops an instance of 3proxy as \AppData\Local\Temp\pxsrvc\pxsrvc.exe and runs it with "shell execute" as a process or service, with portnames set by the user via GUI.

#### **xDedic RDP Client**

The xDedic team also developed their own RDP Client for Windows:

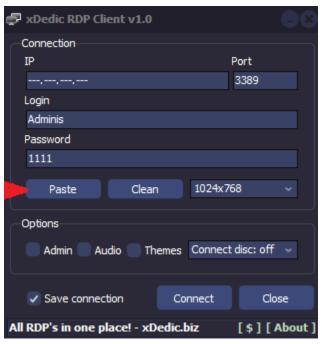


Figure 15. xDedic RDP client

#### According to them:

"xDedic RDP Client is primarily designed to make life easier for our customers. Copying ip, login, password into a rdp conection window takes long time. Now just go to your purchase history, and click "Copy" on the contrary the server to which you want to log in. Then switch to program, press the button "Paste", information about RDP will be inserted into the fields, then simply press a Connect button."



## xDedic tools: KSN statistics

We were able to get statistical information about the geographical distribution of all the xDedic tools described above from Kaspersky Security Network.

The first chart provides the geographical distribution based on all detections:

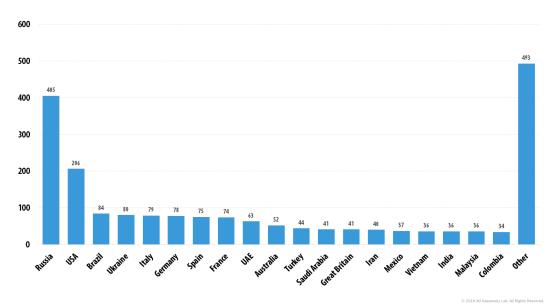


Figure 16. xDedic detections, geographical distribution

The second chart provides geographical detection for servers:

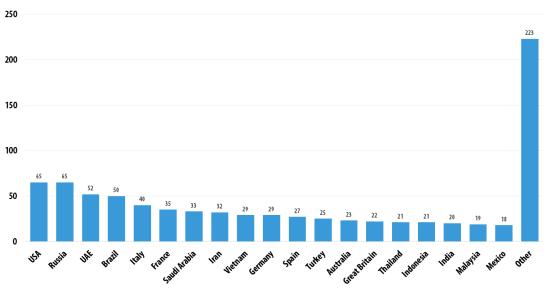
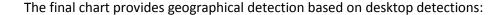


Figure 17. xDedic server detections, geographical distribution

016 AO Kaspersky





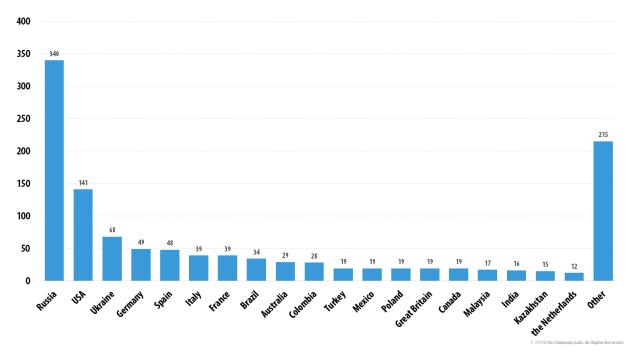


Figure 18. xDedic desktop detections, geographical distribution

As can be seen above, there are more detections on desktop users than on servers, as antivirus is much more popular on desktops.

Detections of xDedic tools on servers prevail in three regions: Europe, US and Middle East. In total we found these tools on servers from more than 50 different countries.

Desktop detection statistics are very interesting in two countries: Russia and Ukraine. This supports the theory that this service was initially founded by Russian-speaking people.

Kaspersky Labs products detect this set of tools as Hacktool.Win32.Rpdpatch.gen

### **Attribution**

The Whois for the xdedic[.]biz (хдедик) domain is registered to:

Registrant Name: Mikhail Mikhail

Registrant Organization: Mikhail

Registrant Address1: str.Molova 21

Registrant City: Moscow Registrant State/Province: Moscow Registrant Postal Code: 193350



Registrant Country: Russian Federation

Registrant Country Code: RU

Telephone: 78122842923
Fax: 78122842923
Created: 09/11/2014
Expired: 09/10/2016

Email: support@e-investhost.com

#### and currently resolves to:

- 104.28.18.107 (CloudFlare)
- 104.28.19.107 (CloudFlare)

Last year the forum was hosted on a different IP which was found via Passive DNS. The following IPs appear to point to the forum backends behind CloudFlare:

- 144.76.82.238 (Apache web server, shared hosting, old), Hetzner AG, Germany
- 136.243.130.185 (nginx), Hetzner AG, Germany.
  - Content from latest xdedic[.]biz confirmed from the server certificate.

#### Server certificate:

subject: C=AU; ST=Some-State; O=Internet Widgits Pty Ltd; CN=xdedic.biz;

emailAddress=qwe@xdedic.biz <mailto:emailAddress=qwe@xdedic.biz>

start date: 2015-12-08 14:26:01 GMT expire date: 2016-12-07 14:26:01 GMT

issuer: C=AU; ST=Some-State; O=Internet Widgits Pty Ltd; CN=xdedic.biz;

emailAddress=qwe@xdedic.biz <mailto:emailAddress=qwe@xdedic.biz>

SSL certificate verify result: self signed certificate (18), continuing anyway.

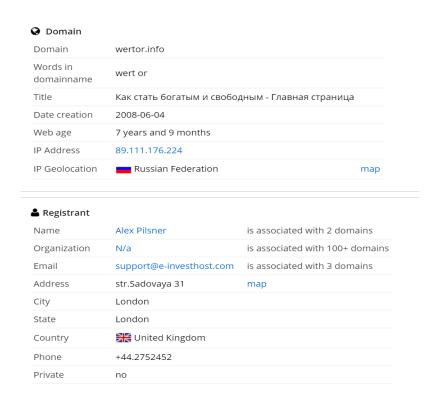
The service also provides a Jabber server for support, running on xdedic[.]tk (87.236.215[.]18). This server (87.236.215[.]18) is known for spreading malware in the past.

The previous email at e-investhost[.]com was also used to register other domains, such as Xdedic[.]biz, viagra-purchase[.]org, wertor[.]info, omerta[.]cc, pharmaplus[.]biz, qualitypillsnorx[.]com. The person behind them uses different Russian addresses and telephone numbers.



Name	Mikhail Mikhail	is associated with 59 domains
Organization	Mikhail	is associated with 99 domains
Address	str.Molova 21	map
City	Moscow	
State	Moscow	
Country	Russian Federatio	n
Phone	+7.8122842923	
Private	no	
C List of domai	n names registred by <b>su</b>	pport@e-investhost.com
Domain Name	Create Date	Registrar
Domain Name xdedic.biz	<b>Create Date</b> 2014-09-12	Registrar (registration services) iisp.com
	2014-09-12	

Wertor[.]info (scam website) and viagra-purchase[.]org domain information provide a different name: Alex Pilsner.



Pivoting on this new name, we find a new interesting domain:



```
Domain Name: OMERTA.CC
Registry Domain ID: 96489781_DOMAIN_CC-VRSN
Registrar WHOIS Server: whois.1api.net
Registrar URL: http://www.1api.net
Updated Date: 2016-02-19T07:48:20Z
Creation Date: 2011-03-29T10:46:04Z
Registrar Registration Expiration Date: 2018-03-29T10:46:04Z
Registrar: 1API GmbH
Registrar IANA ID: 1387
Registrar Abuse Contact Email: abuse@1api.net
Registrar Abuse Contact Phone: +49.68416984x200
Reseller: IISP.com, Inc. iisp.com
Domain Status: ok - http://www.icann.org/epp#OK
Registry Registrant ID:
Registrant Name: Alex Pilsner
Registrant Organization: Private Person
Registrant Street: Sadovaya 27
Registrant City: SPB
Registrant State/Province:
Registrant Postal Code: 193059
Registrant Country: RU
Registrant Phone: +7.81228492929
Registrant Phone Ext:
Registrant Fax: +7.81228492929
Registrant Fax Ext:
Registrant Email: omerta.sup@gmail.com
```

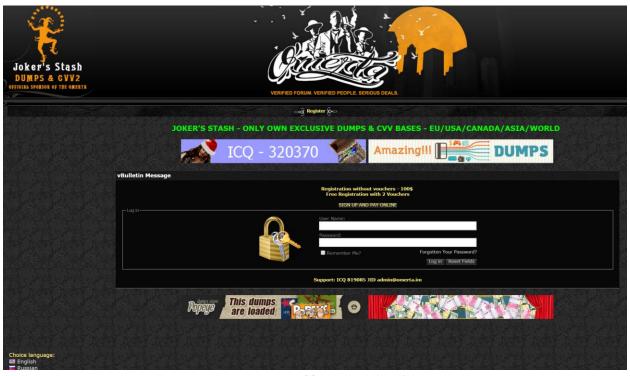


Figure 19. Omerta[.]cc – A carders forum



With the new Omerta email address we find yet more new domains and a new alias (Chi Cha):

amerta.sup@gmail.com is associated to this person		
Chi Cha	is associated with 3 domains	
Cha Chi	is associated with 3 domains	
1 Wang Yuen Street	map	
Hong Kong		
HK		
China		
+852.291294546		
no		
	Cha Chi  1 Wang Yuen Street  Hong Kong  HK  China  +852.291294546	

#### ② List of domain names registred by omerta.sup@gmail.com

Domain Name	Create Date	Registrar
omertadns.biz	2016-02-14	(registration services) eranet.com
cc101.biz	2015-12-28	(registration services) eranet.com

Regarding the domain used in the original registration email, the website "E-Investhost[.]com" is a well-known bullet-proof hosting site for Russian cybercriminals. An excerpt from the website description (translated from Russian):

"BulletProof Hosting - for hyip, surf, warez, adult websites DDOS Protection (DDOS protection). Protect your site, coordinate already under DDOS attack! We register Abuse-resistant domains (blocking probability is minimal)".



### **Conclusion**

The existence of shady forums dedicated to cybercrime is old news. However, it is interesting to see how the main focus of cybercriminals has changed over the last few years, the high degree of specialization achieved by the administrators of the forums and what the relevance of such services might be in the era of APTs.

We will start with the last point. The vast amount of servers for sale on the xDedic marketplace offers a very likely alternative for APT actors with low resources, willing to fly under the radar or having difficulties in getting a foothold in any of its victims. 8 USD is a very cheap price to pay for full access to potential high profile targets. Usually overlooked, servers that have been hacked using brute-force methods might present an opportunity for APT actors that doesn't arouse suspicion.

Other than the implications for APTs, the marketplace's statistics show a consistent number of servers available for sale in very different locations. The tagging system makes it easy for opportunistic attackers to find new targets according to their needs, and the bitcoin mining might be a nice side-line for the criminals.

All in all, not only can this successful model be easily replicated, but we expect to see even more specialized marketplaces appear where APT-as-a-service becomes a reality.



# **Appendix I – Indicators of Compromise**

#### Hashes

#### SysScan

fac495be1c71012682ebb27092060b43 e8cc69231e209db7968397e8a244d104 a53847a51561a7e76fd034043b9aa36d e8691fa5872c528cd8e72b82e7880e98 F661b50d45400e7052a2427919e2f777

#### Registry entries

 $\label{thmsystem} $$HKLM\SYSTEM\CurrentControlSet\Control\Terminal\ Server\WinStations\RDP-Tcp" /v UserAuthentication /t REG_DWORD /d$ 

HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\TerminalServer\WinStations\RDP-Tcp" /v UserAuhentication /t REG\_DWORD /d 1 /f& reg delete

HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System" /v
legalnoticecaption /f& reg delete

HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System" /v
legalnoticetext /f

#### C&Cs

```
http://37.49.224[.]144:8189/manual_result
http://37.49.224[.]144/ptest.php
http://37.49.224[.]144/sp.php
http://37.49.224[.]144/test servers.xml
http://37.49.224[.]144/gfileset.php
hxxp://5.56.133[.]145
http://191.101.31[.]126/ptest.php
http://191.101.31[.]126/sp.php
http://191.101.31[.]126/test_servers.xml
http://191.101.31[.]126/gfileset.php
http://191.101.31[.]126:8189/manual_result
q968787.ignorelist[.]com:32973
q968787.mooo[.]com:32973
q968787.homenet[.]org:32973
q968787.strangled[.]net:32973
                                - SINKHOLED by Kaspersky Lab
q96b7b7.ignorelist[.]com:32973
                                - SINKHOLED by Kaspersky Lab
q96b7b7.mooo[.]com:32973
                                - SINKHOLED by Kaspersky Lab
q96b7b7.homenet[.]org:32973
                                       - SINKHOLED by Kaspersky Lab
q96b7b7.strangled[.]net:32973
                               - SINKHOLED by Kaspersky Lab
```



# **SCCLIENT** installation file path

%SystemRoot%\System32\scclient.exe

#### Yara rules

```
rule xDedic SysScan unpacked {
meta:
      author = " Kaspersky Lab"
      maltype = "crimeware"
      type ="crimeware"
      filetype = "Win32 EXE"
      date = "2016-03-14"
      version = "1.0"
      hash = "fac495be1c71012682ebb27092060b43"
      hash = "e8cc69231e209db7968397e8a244d104"
      hash = "a53847a51561a7e76fd034043b9aa36d"
      hash = "e8691fa5872c528cd8e72b82e7880e98"
      hash = "F661b50d45400e7052a2427919e2f777"
strings:
      $a1="/c ping -n 2 127.0.0.1 & del \"SysScan.exe\"" ascii wide
      $a2="SysScan DEBUG Mode!!!" ascii wide
      $a3="This rechecking? (set 0/1 or press enter key)" ascii wide
      $a4="http://37.49.224.144:8189/manual result" ascii wide
      $b1="Checker end work!" ascii wide
      $b2="Trying send result..." ascii wide
condition:
      ((uint16(0) == 0x5A4D)) and (filesize < 5000000) and
      ((any of ($a*)) or (all of ($b*)))
}
import "pe"
rule xdedic_packed_syscan {
      meta:
             author = "Kaspersky Lab"
             company = "Kaspersky Lab"
             $a1 = "SysScan.exe" nocase ascii wide
      condition:
             uint16(0) == 0x5A4D
             and any of ($a*) and filesize > 1000000 and filesize <1200000 and
pe.number_of_sections == 13 and pe.version_info["FileVersion"] contains "1.3.4."
```