

# The dark side of Online Advertising

Daniel Checkik, Rami Kogan



**DRUDGE REPORT**



**YAHOO!**



The Pirate Bay



THE HUFFINGTON POST

Daily Mail

**POF**



REALTOR®

Answers.com®

{LIFE}BUZZ



Legacy.com®



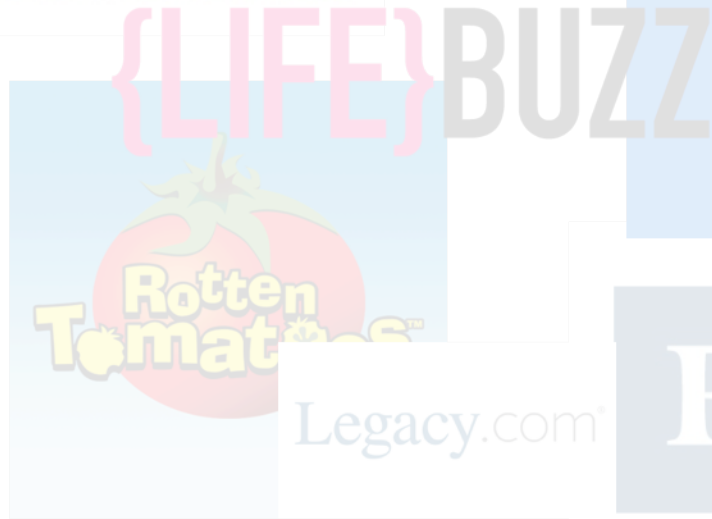
# Few things in common

- Popular

- Free content

- Advertising

- Malicious



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# Malicious Advertising

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# Malvertising



# Types

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# Malvertising

## Types

- **Paid ads in search engines**
- **Deceptive downloads**
- **Drive-by downloads**

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# Malvertising

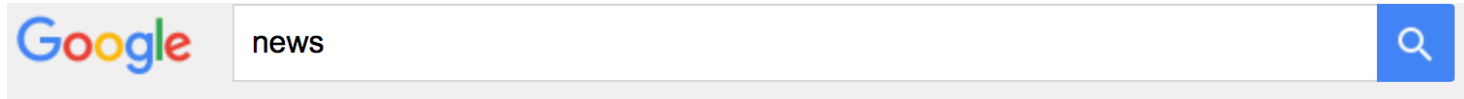
## Types

User Interaction	Drive By Downloads
Malicious paid ads in search engines	Malicious Flash
Deceptive downloads	Hidden iframes
	Pop unders



# User Interaction

## Malicious ads in search engines



[All](#) [News](#) [Apps](#) [Videos](#) [Maps](#) [More ▾](#) [Search tools](#)

About 10,750,000,000 results (0.71 seconds)

### Latest Breaking News - Buy Nikkei Asian Review Today

**Ad** [asia.nikkei.com/](https://asia.nikkei.com/) ▾

Save 44% On Your Subscription Now!

[Latest Headlines](#)

[Market News](#)

[Japan Update](#)

[Asia300 Companies](#)

### Google News

<https://news.google.com/> ▾ [Google News](#) ▾

Comprehensive up-to-date **news** coverage, aggregated from sources all over the world by Google **News**.

[About Google News - Using Google News RSS Feeds - Languages and regions](#)



# User Interaction

## Malicious ads in search engines



Google

[All](#) [Videos](#) [Apps](#) [News](#) [Books](#) [More ▾](#) [Search tools](#)

About 6,490,000,000 results (0.68 seconds)

### YouTube

<https://www.youtube.com/> ▾

Enjoy the videos and music you love, upload original content, and share it all with friends, family, and the world on **YouTube**.

Results from youtube.com



### YouTube

Enjoy the videos and music you love, upload original content ...

### Movies

YouTube's movies destination featuring the latest new ...



# User Interaction

## Malicious ads in search engines



Google

youtube



All

Videos

Apps

News

Books

More ▾

Search tools

About 6,490,000,000 results (0.68 seconds)

Youtube Channel

Ad [www.youtube.com/](http://www.youtube.com/) ▾

Watch Youtube Television Channel Browse News Channel on Youtube

YouTube

<https://www.youtube.com/> ▾

Enjoy the videos and music you love, upload original content, and share it all with friends, family, and the world on **YouTube**.

Results from youtube.com



YouTube

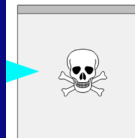
Movies

 **Trustwave**<sup>®</sup>  
Smart security on demand

# Use Malicious

\*\*\* STOP: 0x0000007E (0xFFFFFFFFFC00000047, 0xFFFFFFFF800002EB5B48)

Serious security threats have been detected on your computer. Your browser may have been hacked or hijacked. You're currently using and located around



A serious malfunction has been detected with Windows 7 / Server 2008 R2 7 and your Chrome 50.0.2661.94.

Please call the toll-free number below for a Certified Technician to help you resolve the issue:

1-800-752-154

For your safety, closing the Chrome browser has been disabled without support of the Certified Technician to avoid corruption to the registry of your Windows 7 / Server 2008 R2 operating system

Do not shut down or restart the computer, doing that may lead to data loss and possible failure of the operating system and potential non bootable situation resulting in complete data loss. Please contact Certified Technician at the toll-free Helpline 1-800-752-154

OK

DO NOT RESTART COMPUTER AS IT MAY CAUSE PERMANENT HARD DRIVE FAILURE

CALL CERTIFIED TECHNICIAN TOLL FREE 1-800-752-154

wave®  
demand

# User Interaction

## Deceptive Downloads – Fake AV





### Firefox security alert

Scanning of your system is currently on, please wait until the end.  
Your system affected by numerous virus attacks, Mozilla Firefox recommends you to install proper software to protect your computer

Quick scan system:  
Scan complete

Number of scanned objects: 4063  
Number of infected objects: 6

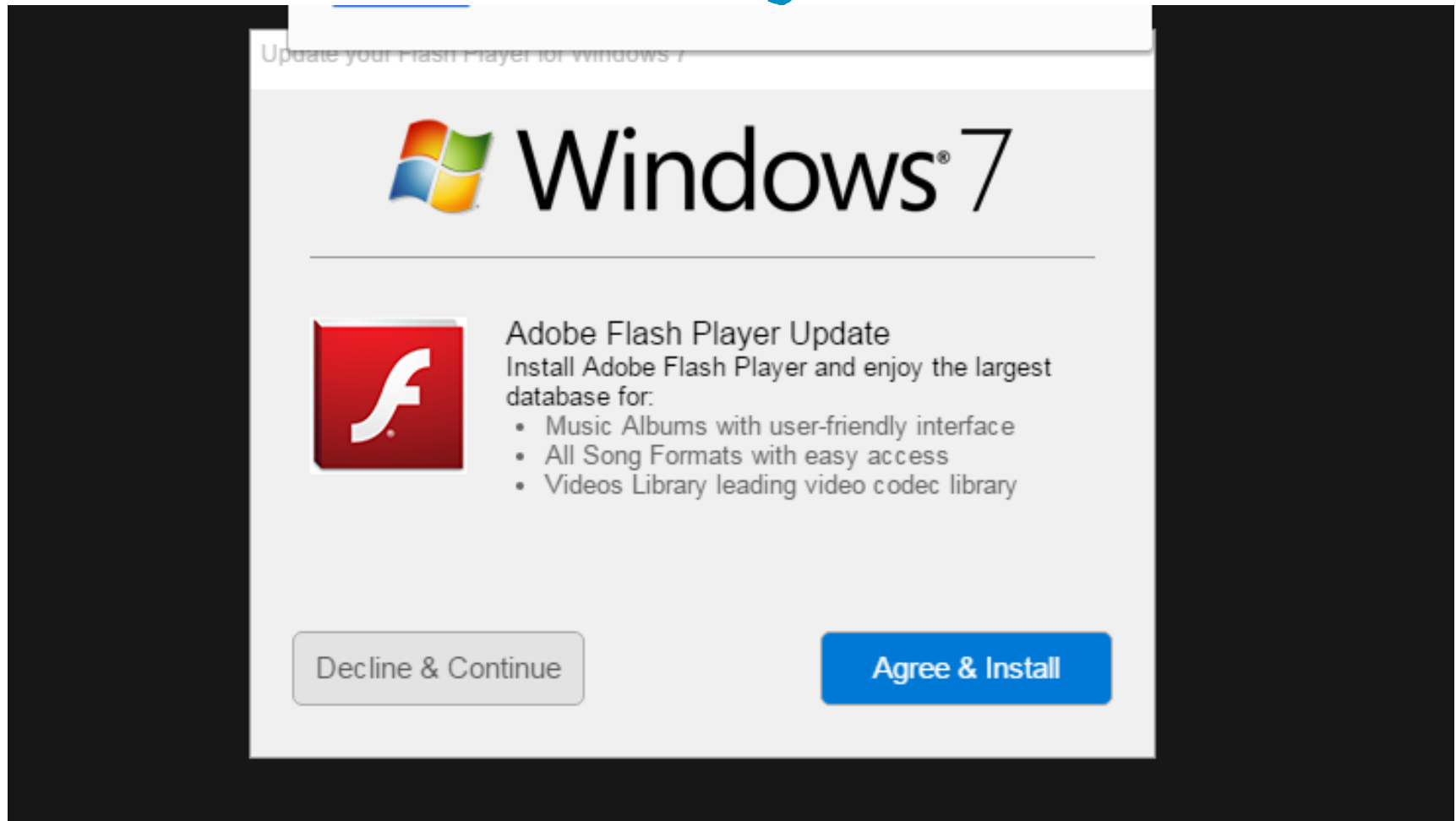
Name	Type	Threat level
W32.Nimba.J@amm	Virus	Medium
Trojan Horse IRC/Backdoor.SdBot4.FRV	Virus	Medium
W95/Elkern F-Secure	Virus	High
AdvWare.Hotbar	Virus	High
W95/Elkern F-Secure	Virus	High
Trojan Horse Generic11.0QJ	Virus	High

Recommended: Click "Start Protection" button to erase all threats

Start Protection

# User Interaction

## Deceptive Downloads – Fake Plugin



Smart security on demand

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# User Interaction



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# No User Interaction

Drive-By Downloads - The silent killer

- **Pop Under**



- **Iframe/Flash/JS**





No  
Drive



Prince died on eve of planned meeting with addiction doctor

May 5, 2016



Artist ends lawsuit over Shkreli's one-of-a-kind Wu-Tang album

May 5, 2016



'May the Fourth Be With You': fans celebrate Star Wars Day

May 5, 2016



Despite sanctions and isolation, Pyongyang skyline grows

May 5, 2016

« Previous

Next »

Taylor Wimpey



Apartments & townhouses with 2 & 3 bedrooms

Mallorca, Costa Blanca & Costa del Sol

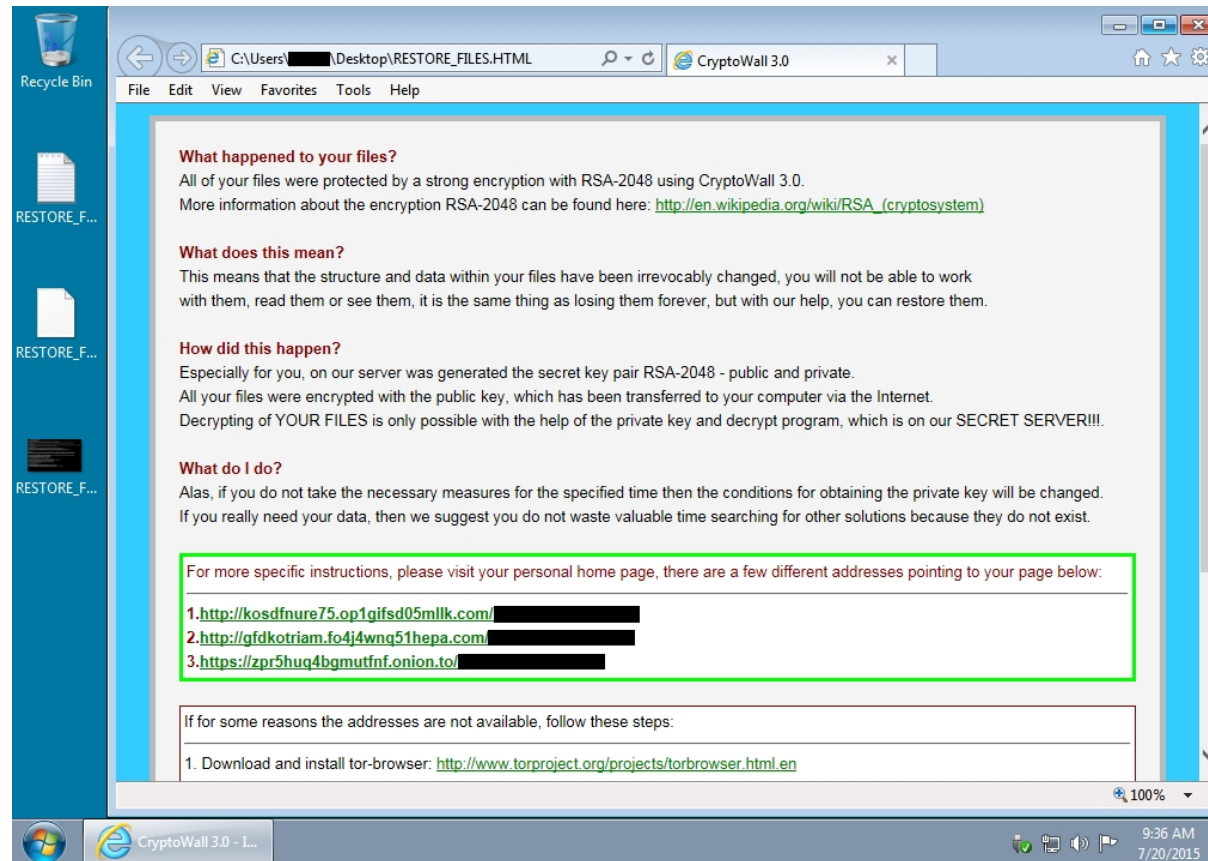
See more



Justwave®  
Security on demand

# No User Interaction

## Drive-By Downloads – The silent killer





**How?**

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# Advertising Eco-System

Direct Advertising



Direct Ad



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# Advertising Eco-System

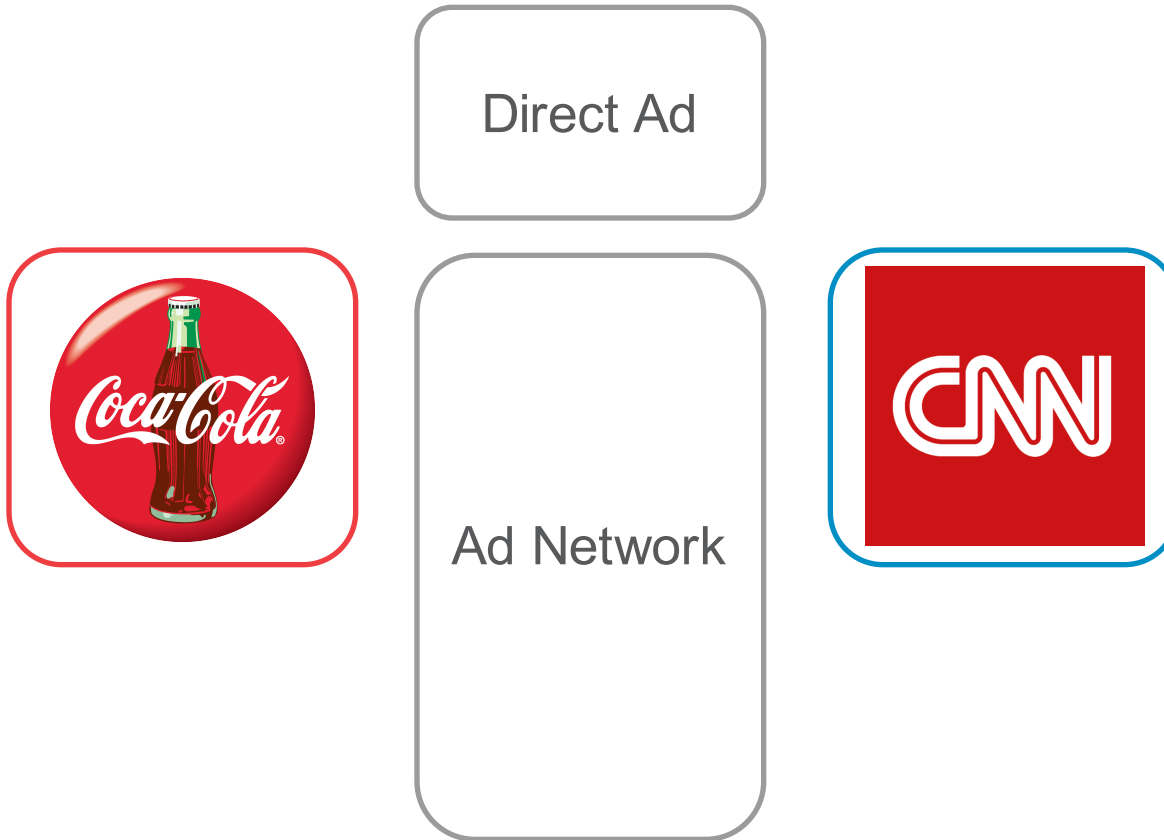
Advertising through Ad Agencies



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# Advertising Eco-System

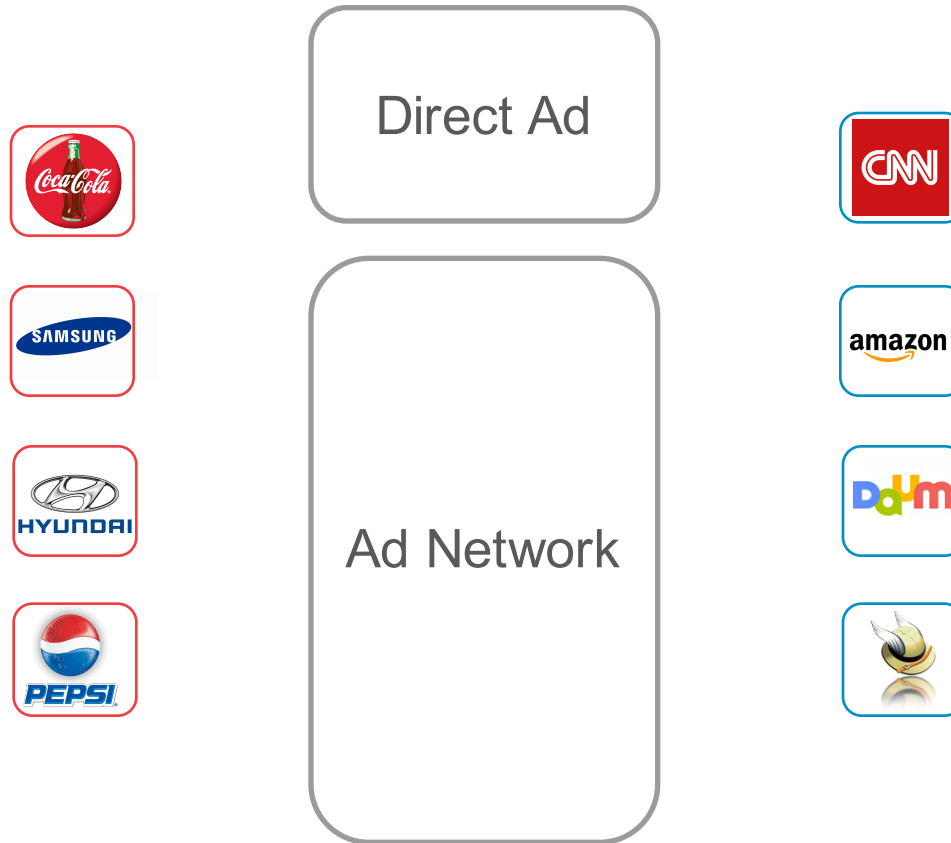
Advertising through Ad Agencies



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# Advertising Eco-System

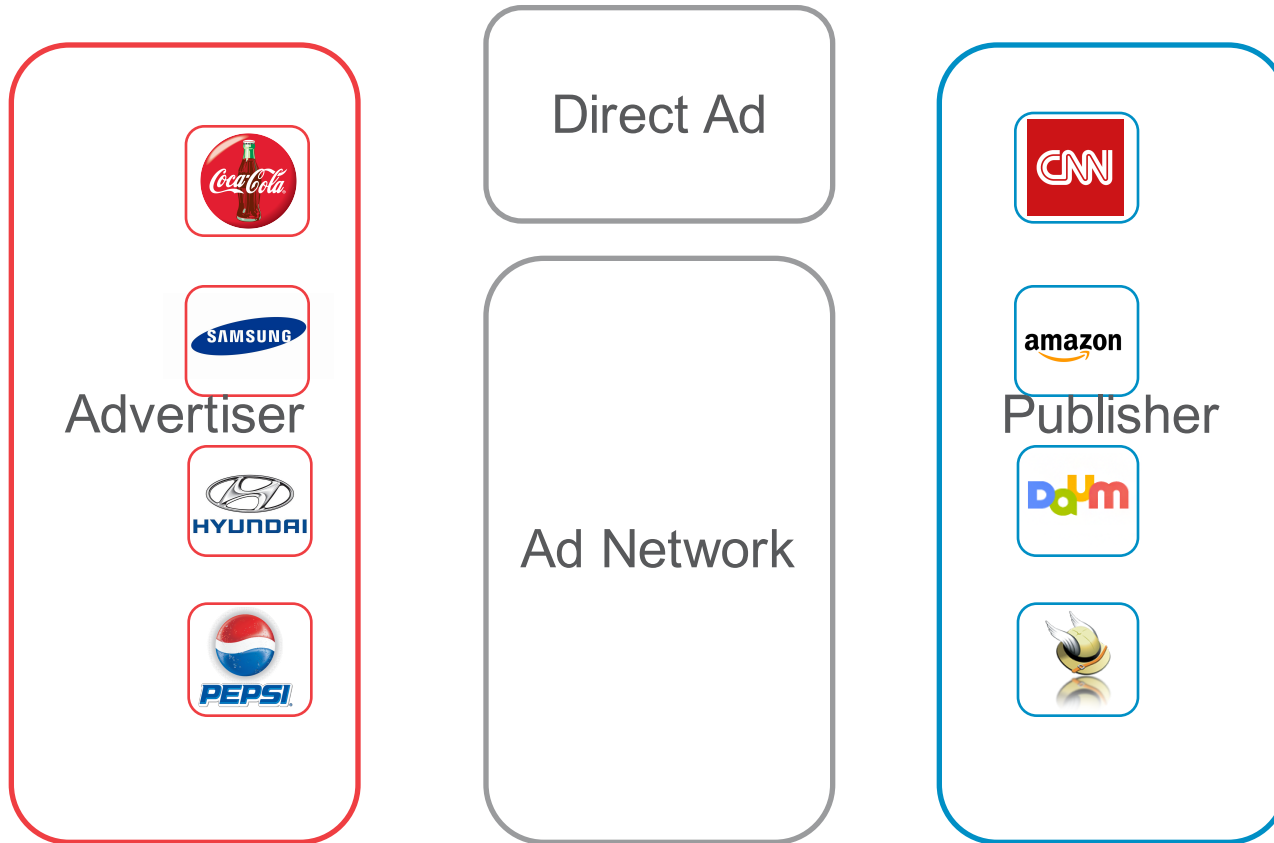
Advertising through Ad Agencies



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# Advertising Eco-System

Advertising through Ad Agencies

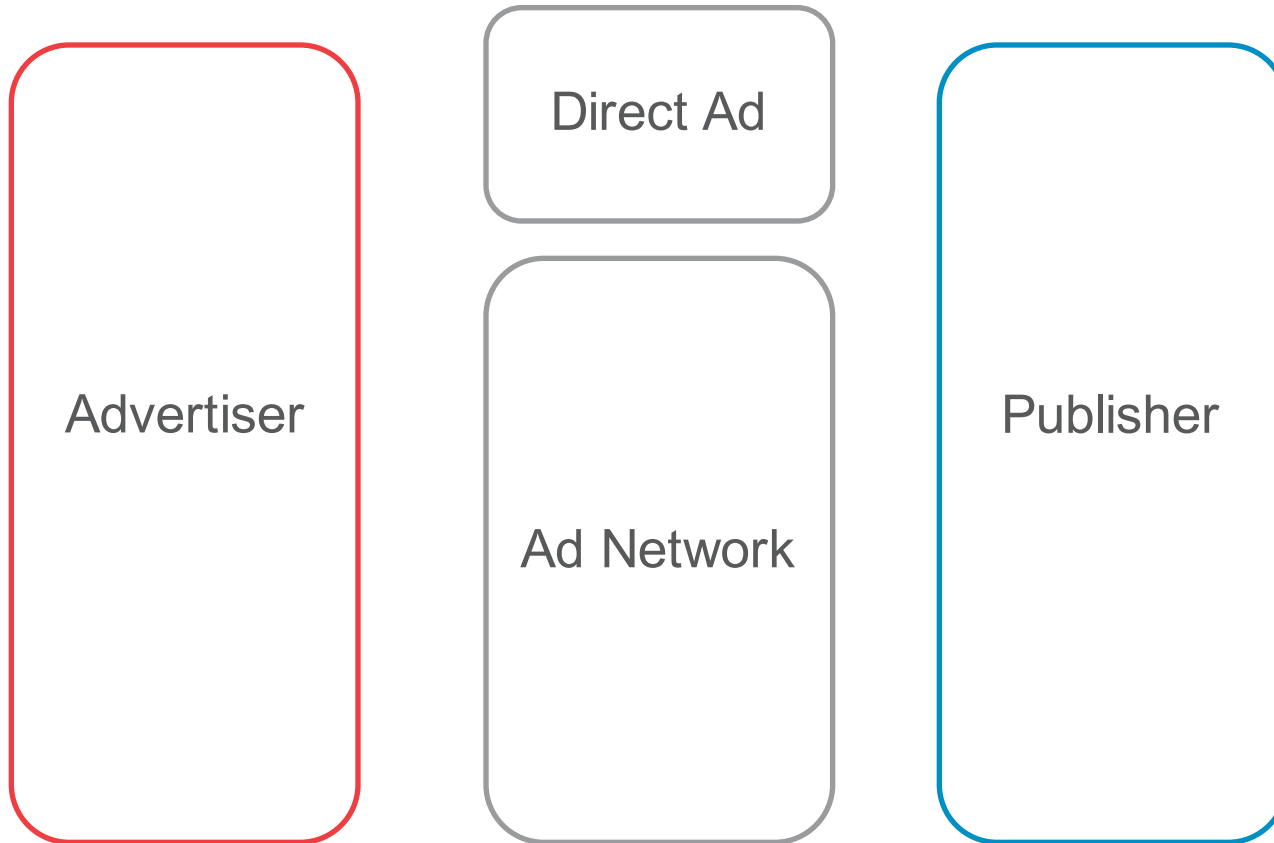




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# Advertising Eco-System

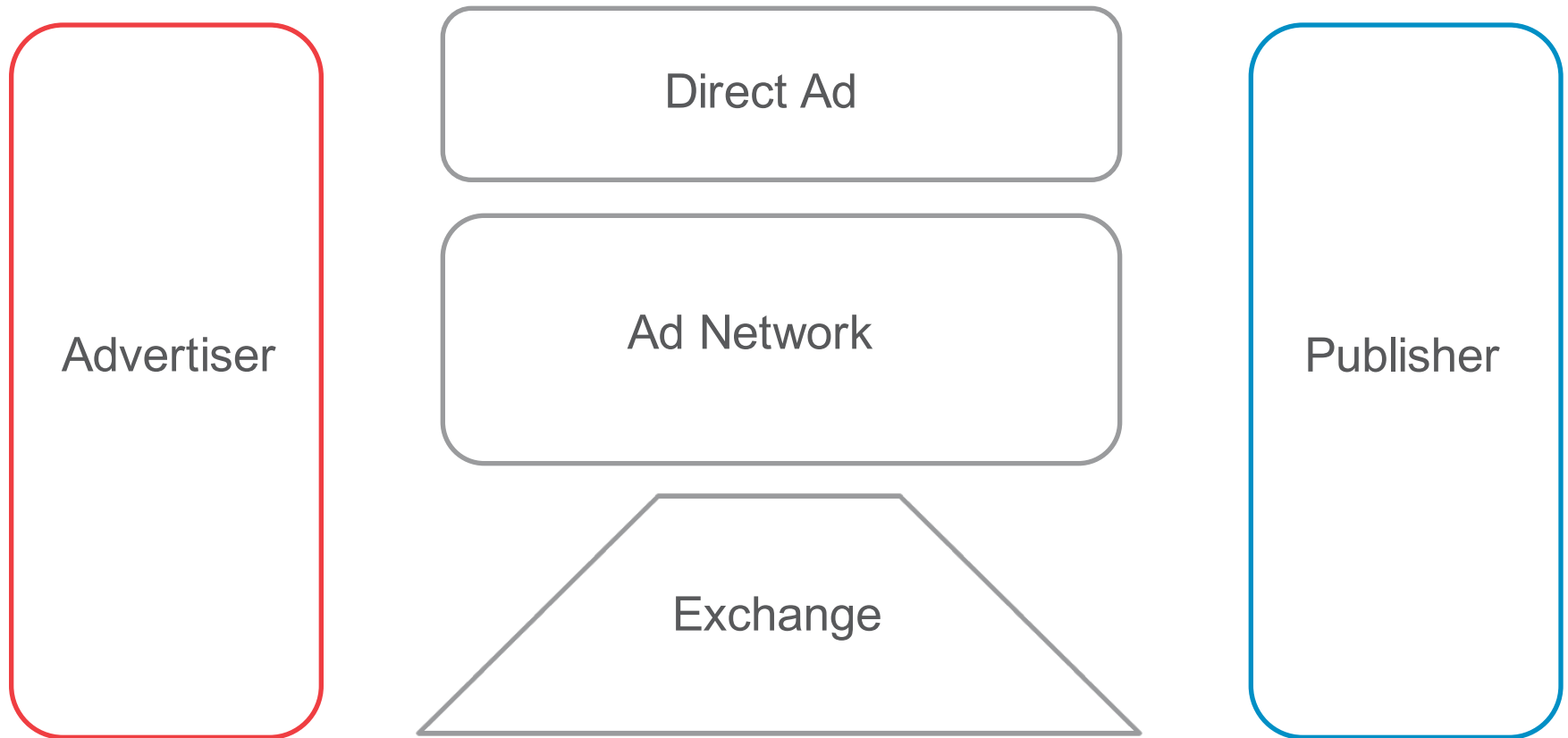
Advertising through Ad Agencies



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# Advertising Eco-System

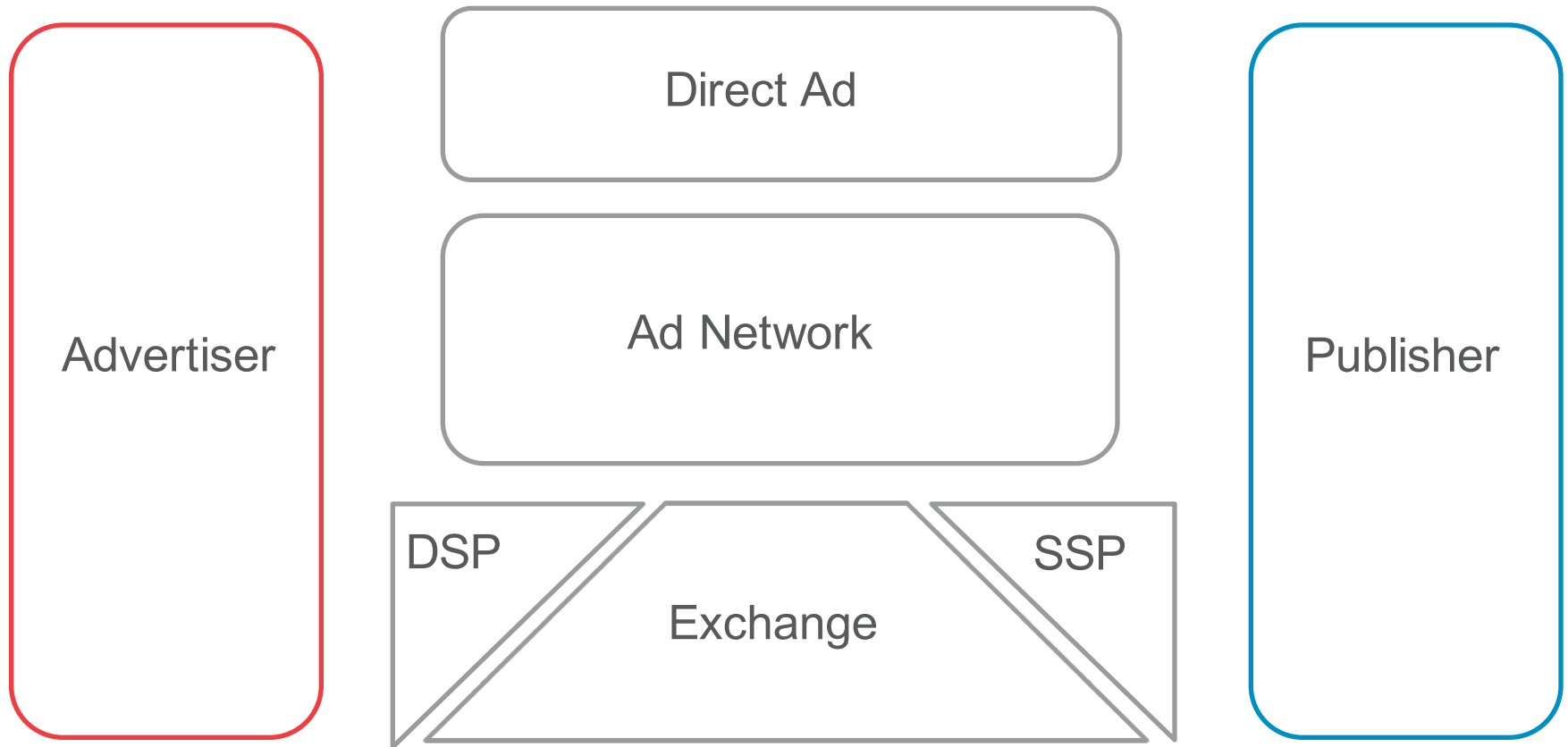
Exchange Services



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# Advertising Eco-System

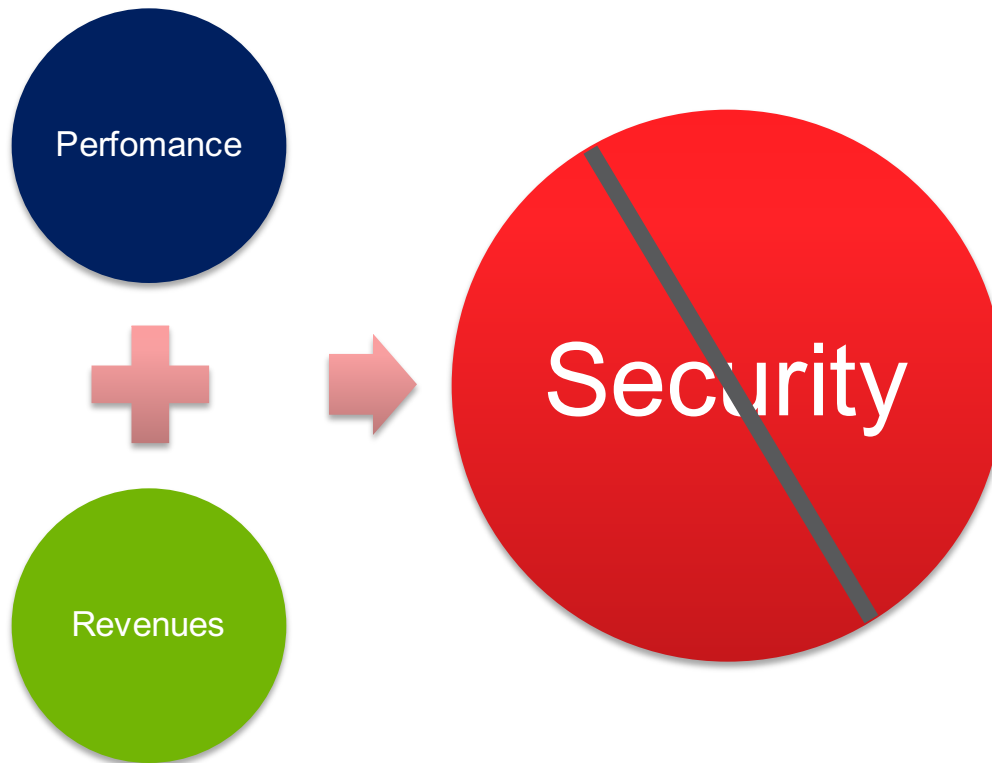
DSP and SSP



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# Malvertising

Online advertisement ecosystem – **The Problem**



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# Malvertising

## Online advertisement ecosystem – The Problem

- RTB takes less than **100 milliseconds**
- DSPs "fight" to respond faster
- Too fast to validate ads

# Mal Sam



Prince died on eve of planned meeting with addiction doctor

May 5, 2016



Artist ends lawsuit over Shkreli's one-of-a-kind Wu-Tang album

May 5, 2016



'May the Fourth Be With You': fans celebrate Star Wars Day

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Despite sanctions and isolation, Pyongyang skyline grows

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**Taylor Wimpey**



Apartments & townhouses with 2 & 3 bedrooms  
Mallorca, Costa Blanca & Costa del Sol

See more >

**Justwave**  
Security on demand

# Malvertising

## Malvertising Infection Chain

2	offstagenews.com	/?_url=%2Fr&utm_source=ts&utm_medium=interstitial&utm_campaign=cid%3D1%2Csubid...
3	ads.contextweb.com	/TagPublish/getjs.static.js?v=27
4	ads.contextweb.com	/TagPublish/GetAd.aspx?tagver=1&ca=VIEWAD&cp=558496&ct=416228&cwod=&epid=&e...
5	as.eu.angsrvr.com	/select?type=js&plc=1031744&cache=6207360&padsrvcurl=
6	x.fidelity-media.com	/delivery/ajs.php?zoneid=16765&cb=31517148700&ab=145742126031517148700&charset...
7	data.rtbfy.com	/rtb2?id=20104&publisher_id=4518&rtb=1&product_id=9&campaign_id=10047&bid=MC4w...
8	partner.brentsmedia.com	/type/suggestion.js
9	partner.brentsmedia.com	/may/citizen/pole/sound/club/society.js?wrapper=false
10	partner.brentsmedia.com	/broad/duty/offer/house.json?lang=en-US&screen=1011x758&time=1457421348&offset=-...
20	ah.gordonfreasjr.com	/topic/11856-resubmits-triggering-schoolroom-tessellation-protestors-adjustments-subdivide...
22	ah.gordonfreasjr.com	?r=VgFS&d=VtiDHMdQ1Q&w=KZp&p=qCHVI&j=NC6NqeDAFB&s=1jczkVHoF&i=4Rrb_m1
23	ah.gordonfreasjr.com	?s=BSBhG&l=&r=PF0LkzsQV&w=&f=wg-e9c61wh&p=qN0nzk2K1G&o=64EEnQ&j=&g=6pv...

# Malvertising

## Infection Chain in

2	offstagenews.com	/?_url=%2Fr&utm_source=ts&utm_medium=interstitial&utm_campaign=cid%3D1%2Csubid...	Publisher
3	ads.contextweb.com	/TagPublish/getjs.static.js?v=27	SSP
4	ads.contextweb.com	/TagPublish/GetAd.aspx?tagver=1&ca=VIEWAD&cp=558496&ct=416228&cwod=&epid=&e...	
5	as.eu.angsrvr.com	/select?type=js&plc=1031744&cache=6207360&padsrvcurl=	
6	x.fidelity-media.com	/delivery/ajs.php?zoneid=16765&cb=31517148700&ab=145742126031517148700&charset...	Exchange
7	data.rtbfy.com	/rtb2?id=20104&publisher_id=4518&rtb=1&product_id=9&campaign_id=10047&bid=MC4w...	
8	partner.brentsmedia.com	/type/suggestion.js	Malvertising
9	partner.brentsmedia.com	/may/citizen/pole/sound/club/society.js?wrapper=false	
10	partner.brentsmedia.com	/broad/duty/offer/house.json?lang=en-US&screen=1011x758&time=1457421348&offset=-...	
20	ah.gordonfreasjr.com	/topic/11856-resubmits-triggering-schoolroom-tessellation-protestors-adjustments-subdivide...	Angler EK
22	ah.gordonfreasjr.com	?r=VgFS&d=VtiDHMdQ1Q&w=KZp&p=qchVI&j=NC6NqeDAFB&s=1jczkVHoF&i=4Rrb_m1	
23	ah.gordonfreasjr.com	?s=BSBhG&l=&r=PFOLkzsQV&w=&f=wg-e9c61wh&p=qN0nzk2K1G&o=64EEEnQ&j=&g=6pv...	



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# Malvertising Laundry

## The standard flow

- A hacker signs up to an Ad network impersonates as a legit advertiser
- Spreading harmless ads for a while
- Choosing the right timing to enable the malicious code
- Every fixed number of views the malicious code is served
- Redirect to exploit kit

# Registration

Регистрация

При регистрации вводим любые данные (ру или бурж - без разницы)  
Сканы не потребуются  
После регистрации, подтверждения почты, ввода персональной информации добавляем как метод оплаты REDPASS с любым несуществующим логином (это нужно, чтобы появилась возможность добавления кампаний на аппрув, но в случае непредвиденных проблем не запалить рабочий вериф акк рахит)

Register under any name (russian or american doesn't matter). Choose to pay with REDPASS

Идём в гугл, делаем запрос xxx tube, porno video, porno tube и тому подобное  
Выбираем трастовый сайт с 5 или глубже страницы выдачи.  
Критерии отбора:  
1) Alexa Rank < 100.000  
2) Нет рекламы Plugrush  
3) Есть реклама Juicysads, Trafficshop и тому подобных крупных бирж  
4) Желательно сайт-tube. То есть галерея видео роликов  
Постим выбранный сайт в этой теме, чтобы одновременно несколько человек не отправили на аппрув один и тот же сайт

Search for xxx site with no ads from Plugrush and with competitive advertisers

Создаём blind кампанию в plugrush как на скрине.  
Бюджет кампании 10\$  
Цена трафика минимально возможная

Set the minimum budget allowed for campaign: 10\$

Способ доставки: Blind Traffic  
Название Кампании: Blind Campaign 7  
Дата Запуска: Январь 1, 2015  
Источники Трафика:  Blind  
Географические Источники:  USA

Wait for approval. Then you can add your Paxum account. The fun begins

Ждём аппрув, потом добавляем свой Рахит в аккаунт и оплачиваем кампанию.  
Сливаем трафик на чужой сайт.



**Who?**

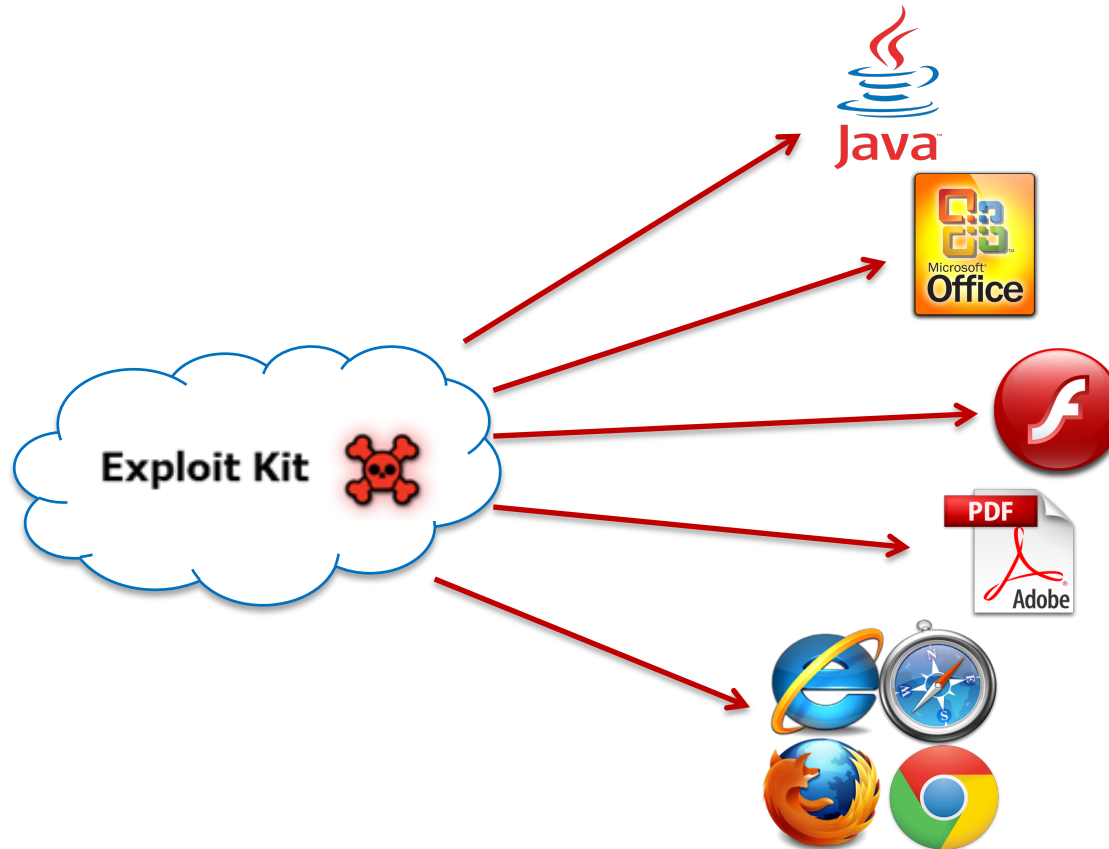
---

# Exploit Kits

Exploit kits without traffic are like...



# Exploit Kits



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# Exploit Kits

## Sources of traffic

- Compromised Web Sites



- SPAM



- Malvertising



# RIG

3.0



username



password



Remember me

LOGIN >



rig\_exploit\_pack@limun.org



support\_rig@xmpp.jp

# Exploit Kits

## Rig Exploit Kit Dashboard

### Overview

#### Downloads

877486

#### Exploits

279070

#### %

31.8 %

#### from exploited

56 %

32.88 %

9.56 %

#### % from hits

18.31 %

10.46 %

3.04 %

#### Countries

Option	Value	Exploits	%
BR	592830	188646	31.8 %
US	110011	24600	22.4 %
VN	44365	31950	72 %
XX	41140	5002	12.2 %
MX	16808	5037	30 %
JP	7138	2183	30.6 %
ID	6736	4047	60.1 %
IT	5633	965	17.1 %
ES	5315	858	16.1 %
TR	4693	2354	50.2 %

MSIE 11.0 357421 67467 18.9 %

MSIE 8.0 175540 104620 59.6 %

MSIE 7.0 146980 61647 41.9 %

MSIE 10.0 100473 19258 19.2 %

MSIE 9.0 89498 23828 26.6 %

MSIE 6.0 5967 2248 37.7 %

Opera 10.00 1053 0 0 %

Opera 12.17 95 0 0 %

MSIE 11 92 0 0 %

MSIE 10.6 73 0 0 %

#### OS

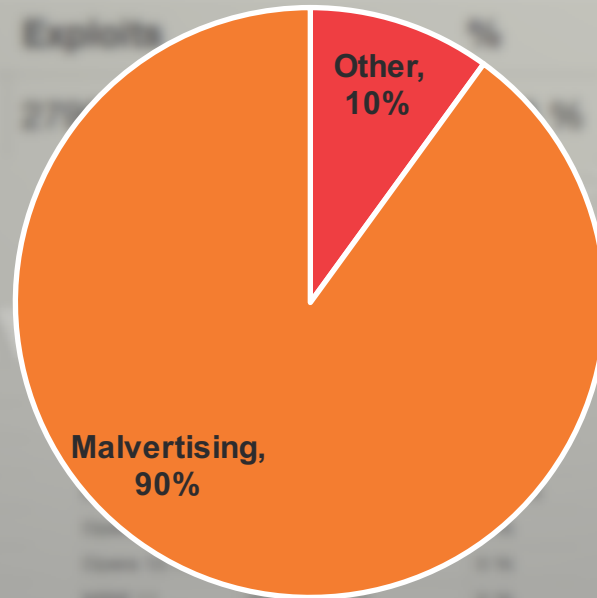
Option	Value	Exploit	%
Windows 7	567834	201038	35.4 %
Windows 8.1	126473	19674	15.6 %
Windows 8	113098	22490	19.9 %
Windows XP	55121	31828	57.7 %
Windows Vista	13008	3766	29 %
Windows 98	1085	0	%
Windows Server 2003	675	224	33.2 %
Windows 2000	108	6	5.6 %
Windows NT 4.0	83	44	53 %
Windows 95	1	0	%



# Exploit Kits

## Rig Exploit Kit Dashboard

### Rig Traffic Sources





**Why?**

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**OR IN OTHER WORDS...**

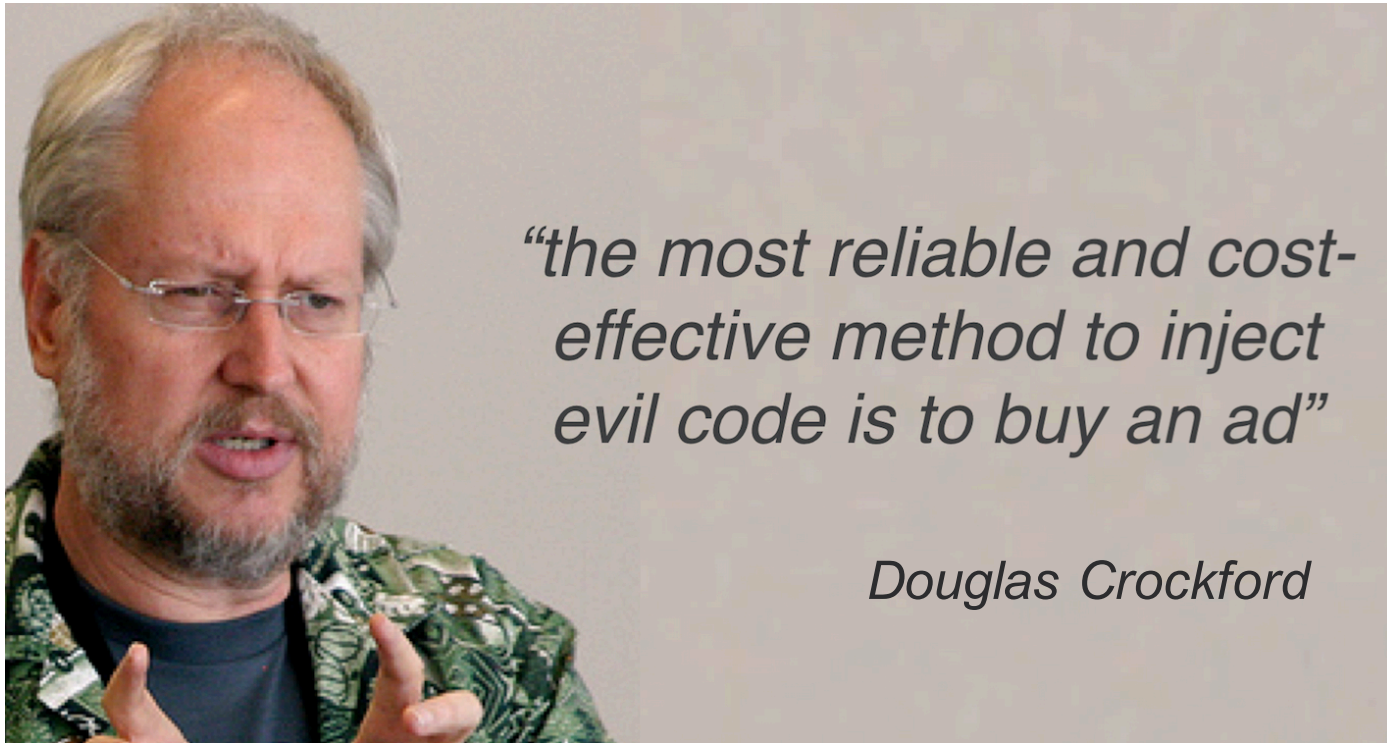
**IF THE BAD GUYS CAN DO IT**

**SO CAN WE**



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# Reaching Vulnerable Machines



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# Reaching Vulnerable Machines

## Task List

- Building a landing page
- Choosing Ad companies
- Bypassing “Security” checks of the Ad companies
- Running a campaign and analyzing the results
- Finding the best ROI taken by cybercriminals

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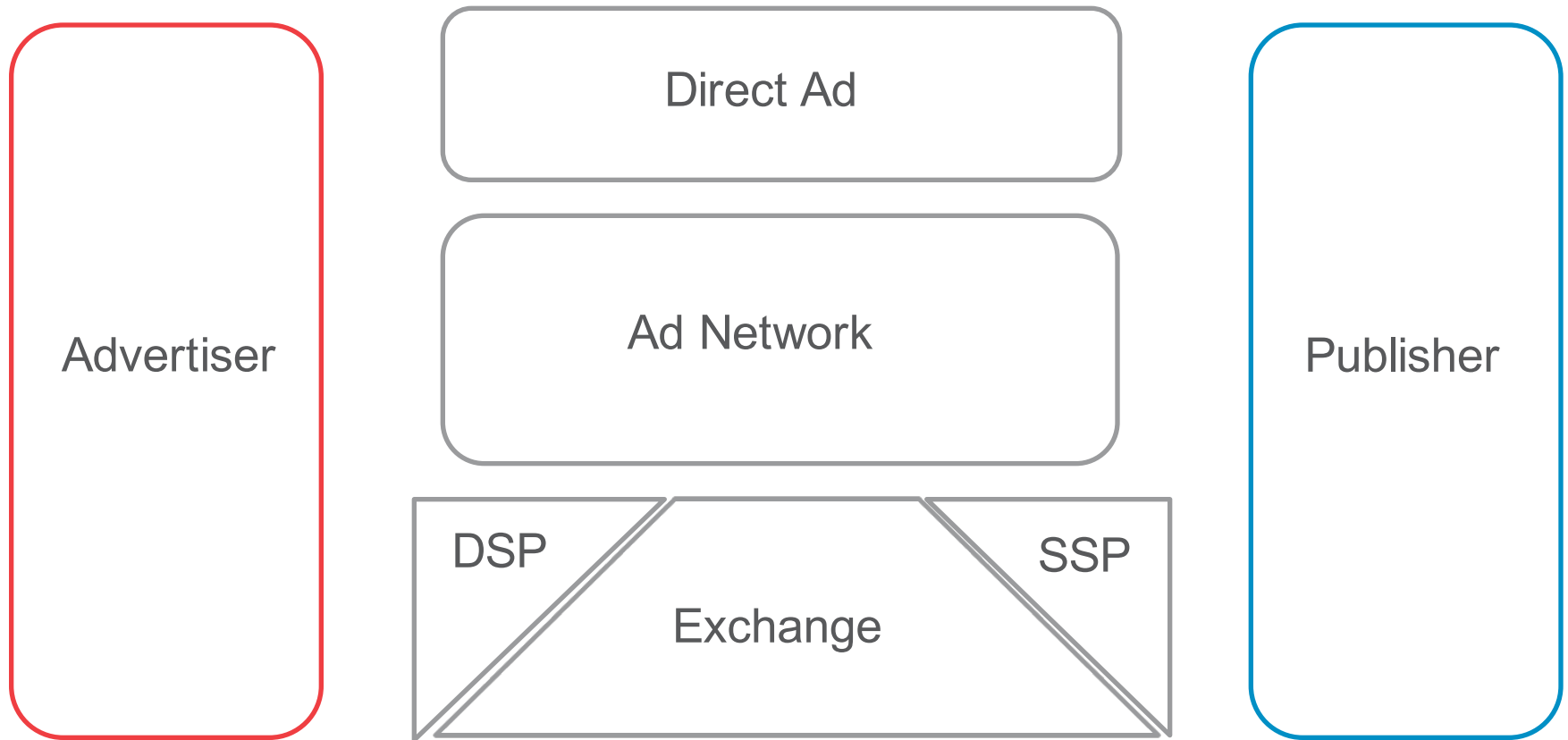
# Building a Landing Page

## Looking for vulnerable Flash Player

```
<script>
  var xmlhttp;
  if (window.XMLHttpRequest)
  { // code for IE7+, Firefox, Chrome, Opera, Safari
    xmlhttp=new XMLHttpRequest();
  }
  else
  { // code for IE6, IE5
    xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
  }
  xmlhttp.onreadystatechange=function()
  {
    if (xmlhttp.readyState==4 && xmlhttp.status==200)
    {
      document.getElementById("myDiv").innerHTML=xmlhttp.responseText;
    }
  }
  xmlhttp.open("POST", "update3.php", true);
  xmlhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");
  xmlhttp.send("flash="+PluginDetect.getVersion('Flash')+"&IE="+getBrowserVerion());
</script>
```

---

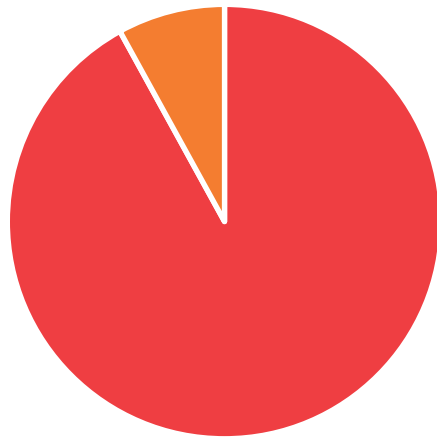
# Picking the right Ad company



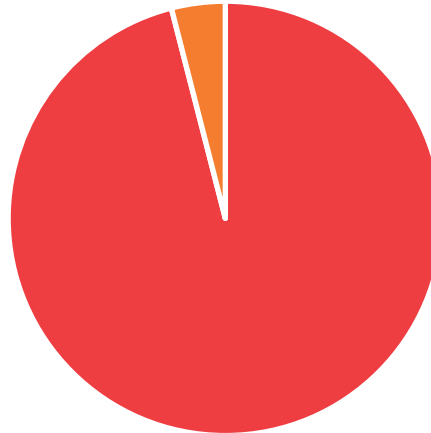
---

# Picking the right Ad company

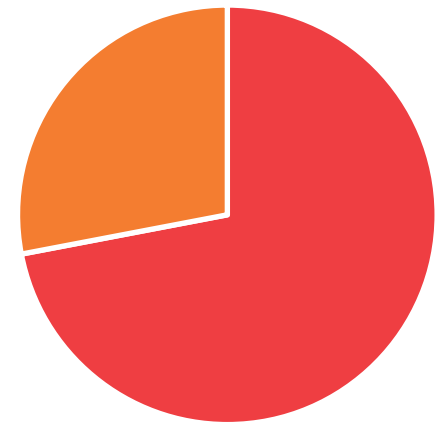
Initial Deposit



Identity Verification



Manual Registration  
(human interaction)



■ Not required    ■ Required



---

# Bypassing Security Checks

## Identity Verification

- **Domain of the proposed banner vs domain of the company**
  - **Use hacked domain accounts (or buy already hacked) in some domain registrars**
  - **Generate subdomain in one of the accounts**
  - **Create a banner with a copied logo and a text from the original site**
  - **Host the banner on the subdomain**
  - **Approach an ad network and pretend to represent abused company**

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# Bypassing Security checks

## Request for identifying documents

We Appreciate Your Interest with [REDACTED]

Your Application is currently under review.

We are having a few problems validating some of your information.

To Expedite the review process of your Application.

**1. Please send to Us a copy of Your photo ID showing the same First and Last Name as are entered in the Application fields.**

Acceptable examples are: Drives license , Passport, etc.

**2. Please send to Us 2 facsimiles from official documents, forms, etc. showing the same name and physical Address as you provided in your Application.**

Acceptable examples such as Utility Bills: Water, Phone Electrical bill, etc.

Such as: 1 copy of an Electrical Bill and 1 copy of a Water Bill, etc. showing the same name and physical Address as you provided in the Application fields.

We look forward to hearing from You.

We regret any inconvenience this may have caused you.

Best Regards,

the company

# Bypassing Security checks

Request for identifying documents – The underground to the rescue!!



The screenshot shows a marketplace listing for document sales. The listing is titled "Продажа и перерисовка" (Sale and copying). It includes a sidebar with user information for "tophoot" and a main list of items for sale. Blue callout bubbles highlight specific items: "Documents for Sale" (pointing to the title), "Scan of passports" (pointing to the scan listings), "USA, UK & Latvia Passports" (pointing to a passport listing), "Fake UK & RF Driver License" (pointing to a license listing), and "Fake Utility Bill" (pointing to a utility bill listing).

08.10.2015, 17:09

tophoot  
Vendor of:  
documents

Регистрация: 16.01.2014  
Сообщений: 5  
Фонд форума: \$0  
В фонде доверия: \$0

Продажа и перерисовка

**Продажа документов:**

- скан РФ паспорта + прописка - 3\$
- скан РФ паспорта + прописка + водительское удостоверение загранично - 5\$
- сканы других стран (Франция, Германия, Эстония, Латвия и многие другие) - 10\$

**Перерисовка документов:**

- Паспорт РФ  
20\$
- Паспорт США  
15\$
- Права ЮК, РФ  
20\$
- Загран.паспорт РФ  
20\$
- Счет за коммунальные услуги рф:  
15\$



# Bypassing Security checks

Request for identifying documents – The underground to the rescue!!

**legi0ner**  
Vendor of:  
scans

Регистрация: 28.02.2015  
Сообщений: 1  
Фонд форума: \$0  
В фонде доверия: \$0

**Фото/сканы реал пластика, документы, чеки**

Кратко о себе: имею опыта немного во всем, лил покер, дроповодил, шопился и шоплюсь, по этому делаю **сканы** и фото как для себя и цену Ваш труд. Сейчас не все что могу делать, со временем буду пополнять перечень услуг.

**Карты печатаются, а не рисуются, никакого фотошопа.**

Делаю фото/сканы **реального** пластика.  
Возможна печать вашего шаблона.  
Эмбоссинг, типпирование (серебро, золото, черный)  
Голо - visa/mc  
Подписи - visa/mc  
Чипы - 4428

Шт  
- С  
- вери  
- Коледж  
- ID - \$20  
- утилити билл скан/фото - \$15  
- Изготовление реальной печати (фотополимер) - \$30

Могу изготовить пластик для шоппинга.

Оплата - wmr

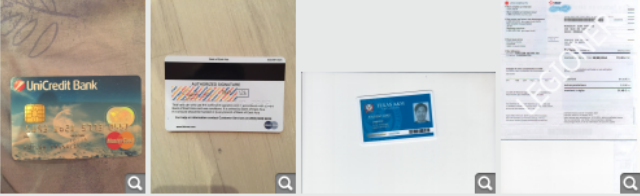
Контакты:  
legioner@richim.org  
8881888@xmpp.ru

pgp+otr

**He Appreciates our efforts**

**Fake ID**

**Fake Utility Bill**



\*Могу выполнить практически любое задание (подпись по вашему образцу, фото в руках, фото на фоне и т.д.)



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# First Experience as Advertisers

## Campaign Results

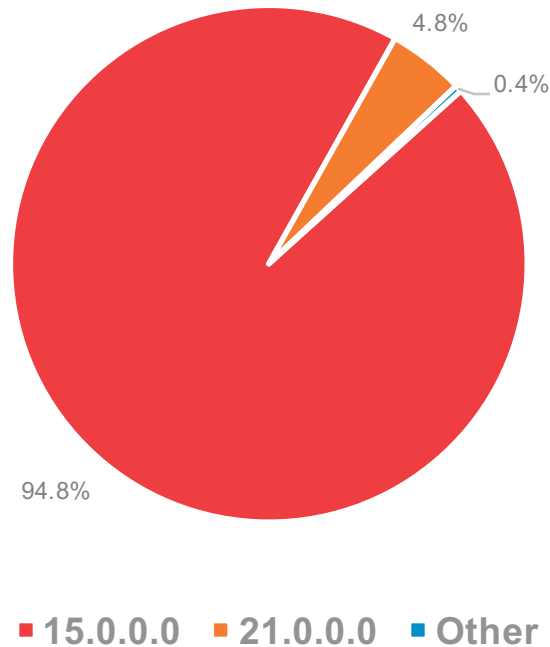
- **Budget: \$4.00**
- **Campaign Time: 8 hours**
- **Total Clicks (according to the Ad company): 20,000**
- **Total Click (according to our records): 25,831**

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# First Experience as Advertisers

## Campaign Results

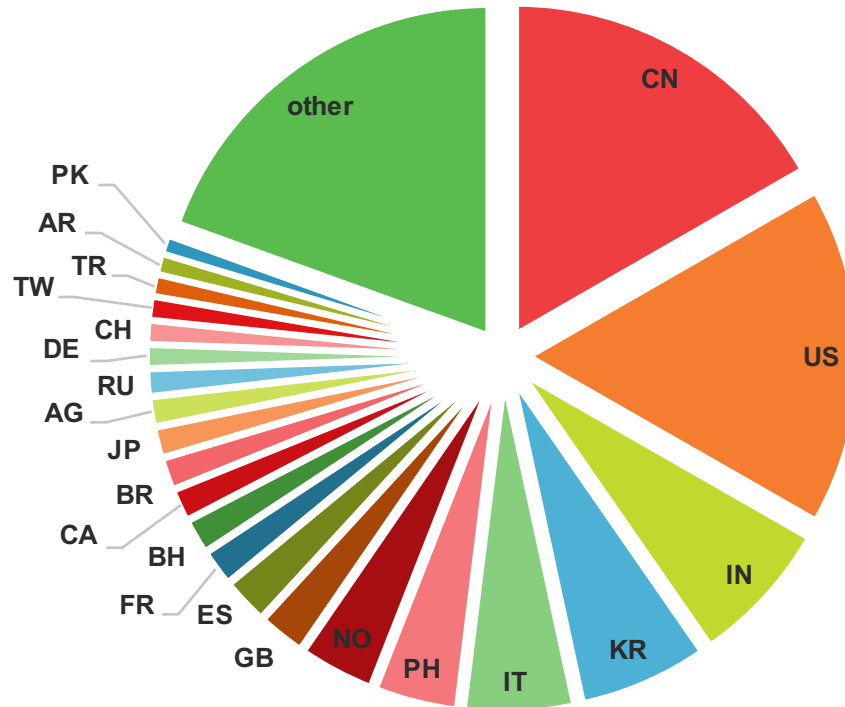
Flash version breakdown of 25,829 users



# First Experience as Advertisers

## Campaign Results

Users by Countries



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# Ad-Clicker & Malvertising

## Bedep Malware in Action

- <LIVE DEMO>



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# Ad-Clicker & Malvertising

## Bedep Malware over 1 month period

- Approximately 300,000 advertising impressions
- The machine was attacked 2500 by exploits delivered by malvertising
- 0.83 % of the advertising were malware

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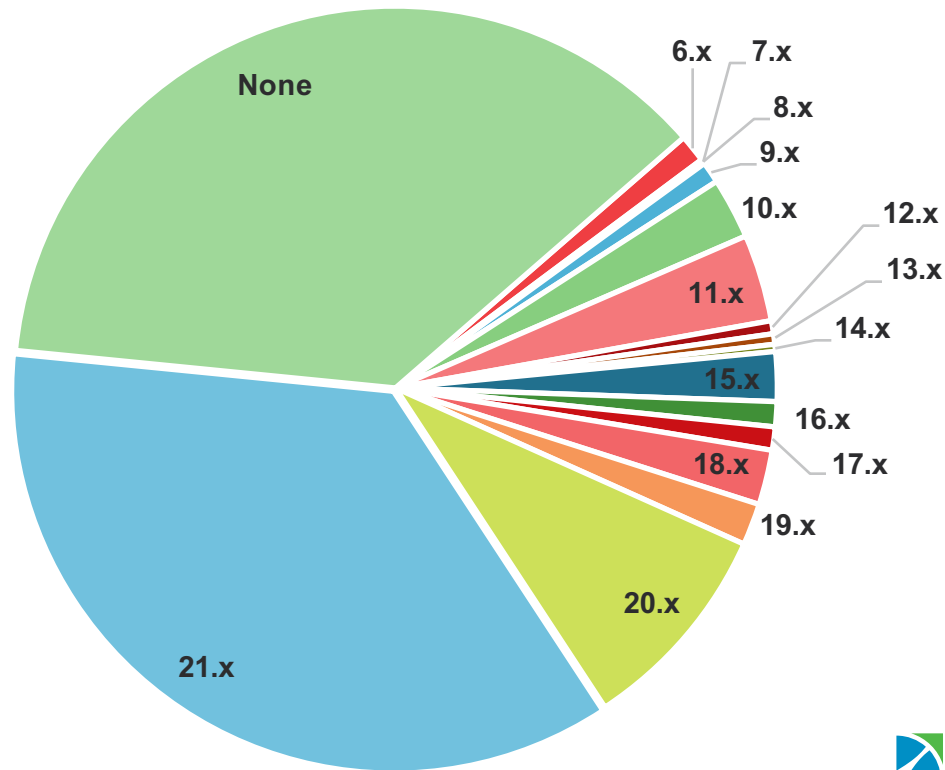
# Second Experience as Advertisers

## A different Ad network

- **Budget: \$5.00**
- **Campaign Time: 10 hours**
- **Total Clicks (according to the Ad company): 9,999**
- **Total Click (according to our records): 9,265**

# Second Experience as Advertisisers

Flash version breakdown of 9257 users



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# What we've learned so far

- **Every campaign inserted automatically into pending status**
- **Changing the campaign parameters enforce system approval**
- **Mostly cosmetic checks, such as URL validity and visually**
- **After approval, no validation upon changing the landing page itself**

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# Flash Based Landing Page

```
private function init(param1:Event = null) : void
{
    var e:Event = param1;
    var urlLoader:URLLoader = null;
    var req:URLRequest = null;
    var requestVars:URLVariables = null;
    removeEventListener(Event.ADDED_TO_STAGE,this.init);
    Mouse.cursor = MouseCursor.BUTTON;
    this.image.width = 463;
    this.image.height = 270;
    stage.addEventListener(MouseEvent.CLICK,this.clickHandler);
    addChild(this.image);
    var versionNumber:String = Capabilities.version;
    trace("versionNumber: " + versionNumber);
    try
    {
        urlLoader = new URLLoader();
        req = new URLRequest("stat.php");
        requestVars = new URLVariables();
        requestVars.flash = versionNumber;
        requestVars.IE = "n/a";
        req.data = requestVars;
        req.method = URLRequestMethod.POST;
        urlLoader.load(req);
    }
    return;
}
```

---

# Third Experience as Advertiser

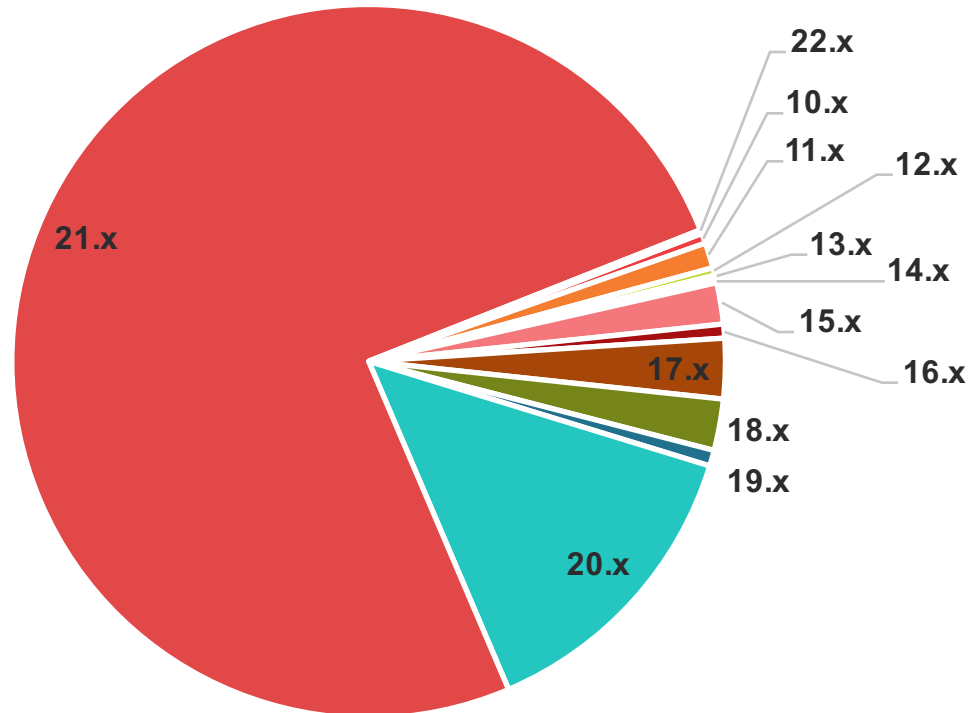
## Campaign Results

- **Budget: \$5.00**
- **IE Filter**
- **Campaign Time: 6 hours**
- **Total Clicks (according to the Ad company): 6250**
- **Total Click (according to our records): 4,818**

# Third Experience as Advertiser

## Campaign Results

Flash version breakdown of 3,419 users

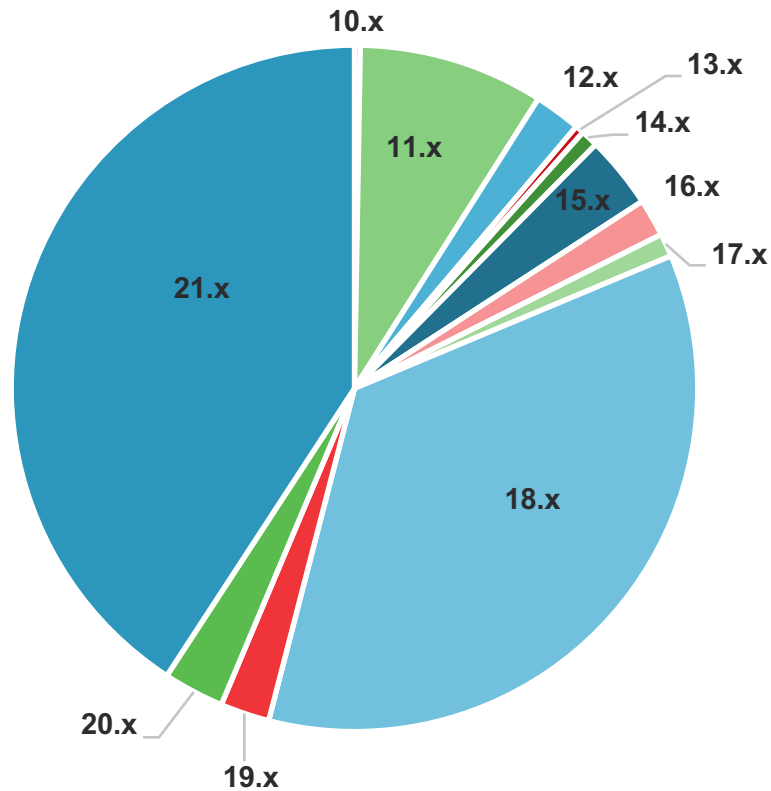


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# Third Experience as Advertiser

## Campaign Results

### Flash Versions Breakdown of 4,818 Users

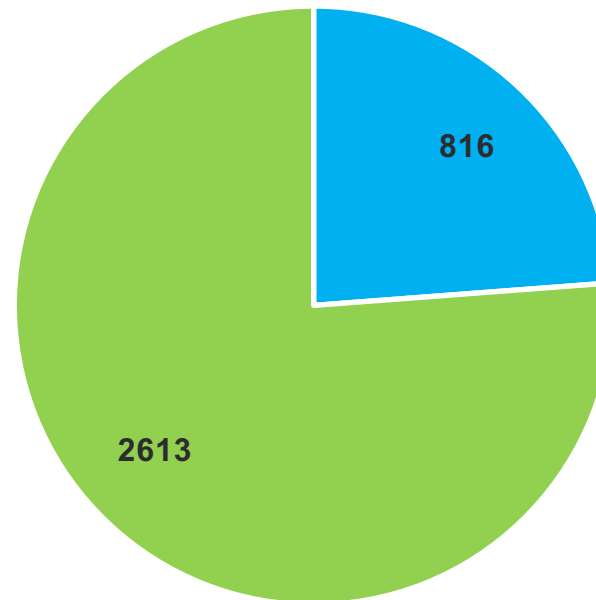




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# Arm Landing Page With Exploit

## Machines Running Vulnerable Flash

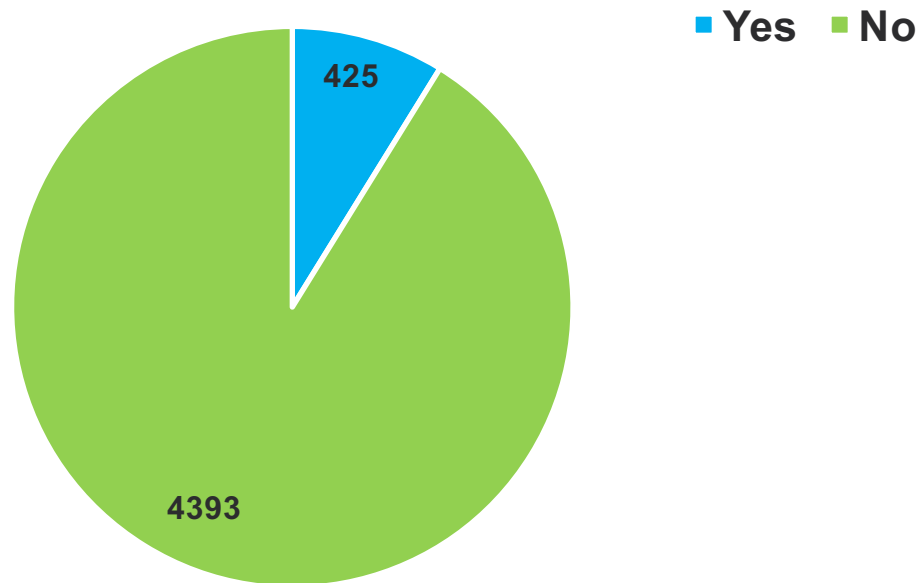


■ Yes ■ No

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# Arm Landing Page With Exploit

## Machines Running Vulnerable Flash



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# LIVE DEMO





# Underground

# Underground Gives its Alternatives

## Ad Networks Accounts For Sale

PlugRush account for sale

Продам Акк Plugrush + прокладка, Апрув Веб и моб траф

Каскадный · [ Стандартный ] · Линейный

Подписка на тему | Сообщить другу | Версия для печати

Отправлено #1

KaBEErator

Вчера, 17:00

Продам в месте с доменом + доками на холдера регистрирующего акк+ почта+ дедик цена 400\$ ТОЛЬКО через гаранта! в перед ничего не дам на акк апрувнута 2 компании С веб и моб трафом Апрув стоит сразу на тдс контакты в ПМ

Selling registered account + documents of holder + email + dedicated server

Никогда не спорьте с дураком, он опустит вас до своего уровня и победит вас на своей территории.

Includes PC and mobile traffic

Price: \$400



килобайт

Группа: Пользователь  
Сообщений: 35  
Регистрация: 05.09.2015  
Пользователь №: 63 836  
Деятельность: [другое](#)

Репутация: -2  
( 3% - плохо )

# Underground Gives its Alternatives

2 PlugRush accounts for sale **Sale**

Продам 2 трастед акка Plugrush Каскадный · [ Стандартный ]

Подписка на тему | Сообщить другу | Версия для печати

**zlazuzla** 19.04.2016, 12:25

Продам 2 трастед акка Plugrush  
Акки с отлежкой, обоими в районе года.

Комплект:  
акк  
мыло  
доки холдера  
акк Рахим с фулл инфо.

на акках было проаппрувлено 2 компании - моб и веб.  
Работа только через гарант, стоимость 400 за единицу.  
связь ПМ

гигабайт  
Группа: Пользователь  
Сообщений: 125  
Регистрация: 23.02.2010  
Пользователь №: 29 403  
Деятельность: другое

Репутация: 11  
( 1% - хорошо )

ПРОФИЛЬ ПМ ЖАЛОБА ВВЕРХ

**zlazuzla** 21.04.2016, 12:57

1 акк продан. остался еще 1.

гигабайт  
Группа: Пользователь  
Сообщений: 125  
Регистрация: 23.02.2010  
Пользователь №: 29 403  
Деятельность: другое

Репутация: 11  
( 1% - хорошо )

ПРОФИЛЬ ПМ ЖАЛОБА ВВЕРХ

**zlazuzla** 25.04.2016, 16:25

последний акк в продаже.  
нашелся еще акк adcash.com с балансом. акку тоже год.

гигабайт

Including: mail, documents and Paxum account

1st account SOLD

2nd account SOLD

For sale: 1 year old adcash account with money in balance



# The Underground Gives its Alternatives

## Ad Networks Accounts For Sale

продам биржи с апрувом, Android траф, PC траф

Подписка на тему | Сообщить другу | Версия для печати

**alex575**

терабайт  
■■■■■

Группа: Пользователь  
Сообщений: 214  
Регистрация: 16.02.2011  
Пользователь №: 36 237  
Деятельность: другое

Репутация: 12  
( 1% - хорошо )

Approved accounts of ad networks for sale

и аком рахит с которого пополнялись.

акам больше года, 8 бирж и 5 доменов.

список бирж:

plugrush (апрув только на моб)  
juicyads (50 на балансе)  
ero-advertising (50 на балансе)  
trafficshop (ПК и мобильный)  
popcash (ПК и мобилбный)  
и еще 3 небольшие биржи.

More than 1 yr old accounts from 8 different ad networks and 5 domains

если нужно, помогу с настройкой слива андроид трафа.

прайс 2к, торгуемса. dst@exploit.im

Price \$2k

продаю тк ближайшие пол года не будет времени, скоро сезон в юсе, кто в теме поймет.

ave<sup>®</sup>  
mand

---

# Buying Traffic

```
[5/15/2016 3:20:38 PM] me: i want to buy traffic
[5/15/2016 3:21:11 PM] sell_digi opt: how much traffic your needs ?
[5/15/2016 3:21:36 PM] me: 100k
[5/15/2016 3:21:57 PM] sell_digi opt: from what countries need traffic?
[5/15/2016 3:22:11 PM] me: mix, but i need to do test before of 1k (i will pay for 1k)
[5/15/2016 3:23:02 PM] sell_digi opt: куда пойдет трафик?
[5/15/2016 3:26:38 PM] sell_digi opt: on a link to send the traffic? Which countries ? Europe, Russia ?
[5/15/2016 3:27:10 PM] me: europe
[5/15/2016 3:29:15 PM] sell_digi opt: I do not have a banner traffic to Europe only popup
[5/15/2016 3:31:22 PM] me: so you can use this one http://[REDACTED].html
```



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# Buying Traffic

```
[5/15/2016 3:59:10 PM] sell_digi opt: you send traffic on this link ? http://[REDACTED].html
[5/15/2016 3:59:33 PM] me: yes
[5/15/2016 4:00:40 PM] me: this link is for test only and it supposed to measure your quality of traffic.
                        After test I'll give you a different link
[5/15/2016 4:04:33 PM] sell_digi opt: you have to code this page only banner, nothing more.
                        I do not understand why you need traffic to a page with a banner .
[5/15/2016 4:05:39 PM] me: ok I give up
```

---

# Buying Traffic

```
[5/15/2016 4:06:36 PM] sell_digi opt: I will send traffic to the first link after payment to you.  
where you feel comfortable to make the payment ?  
[5/15/2016 4:08:30 PM] me: what are the options for payment?  
[5/15/2016 4:08:49 PM] sell_digi opt: tell me what to do ,  
where to direct the traffic as you want to pay for traffic  
[5/15/2016 4:09:51 PM] sell_digi opt: Now only Webmoney and qiwi
```

---

# Experience With Underground Traffic

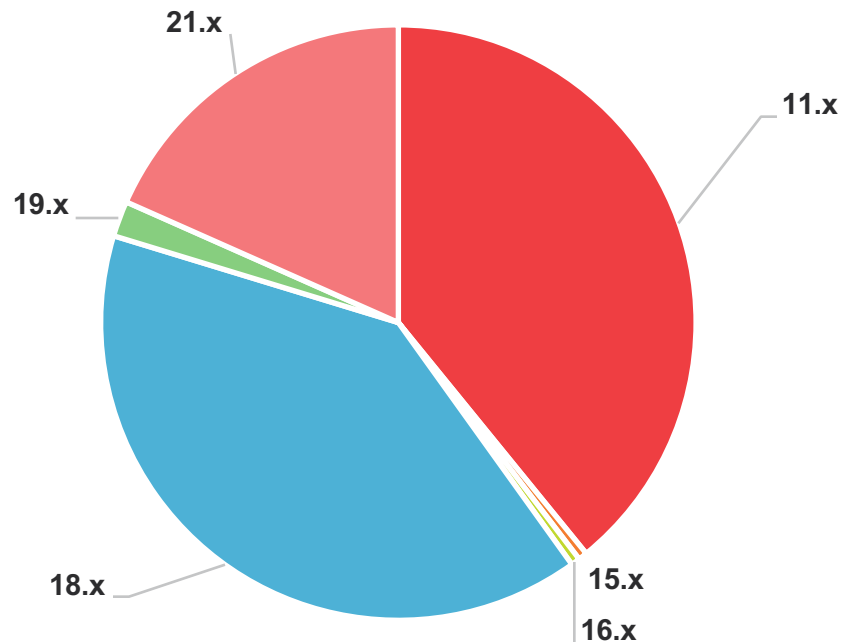
## Campaign Results (A different Ad network)

- **Budget: \$6.00**
- **Campaign Time: 3 hours**
- **Total clicks according to agreement: 3,000**
- **Total clicks actual number: 2,742**

---

# Underground Traffic

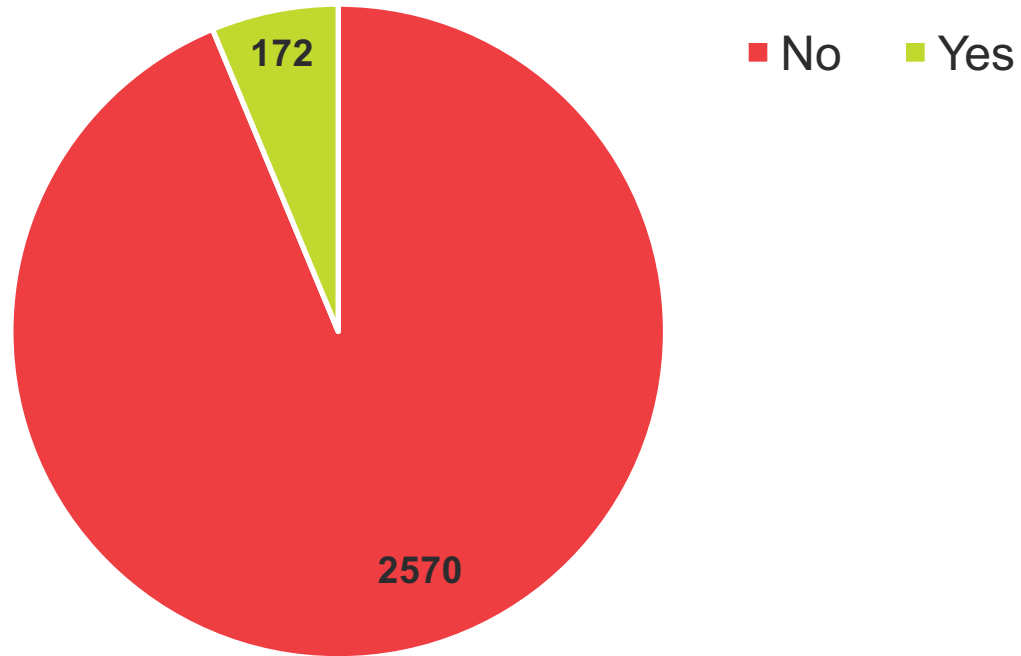
## Flash Versions Breakdown of 206 IE Users



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# Underground Traffic

## Amount of Vulnerable Machines

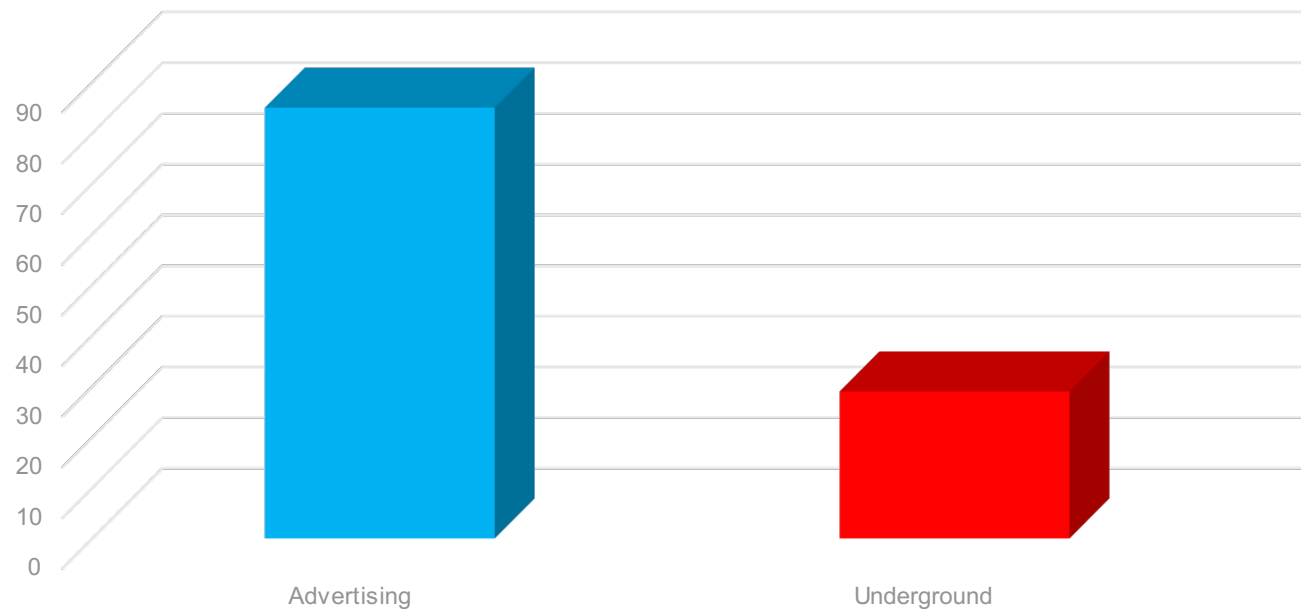


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# Campaigns Summary

## Advertising VS. Underground

Vulnerable Machines for \$1





# Perspectives

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# The Online Advertising Market Perspective

## A wake up call

- **IAB: Malvertising is costing the American marketing and media industry: \$1.1 billion**
- **IAB: Out of \$1.1 b, \$780m is lost because of ad blocking**
- **IAB: a "call to action" asking industry leaders to step in and contribute to fight corruption in the digital advertising supply chain ecosystem**
- **AdWords & DoubleClick will block Flash by June 30<sup>th</sup>**



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# The Online Advertising Market Perspective

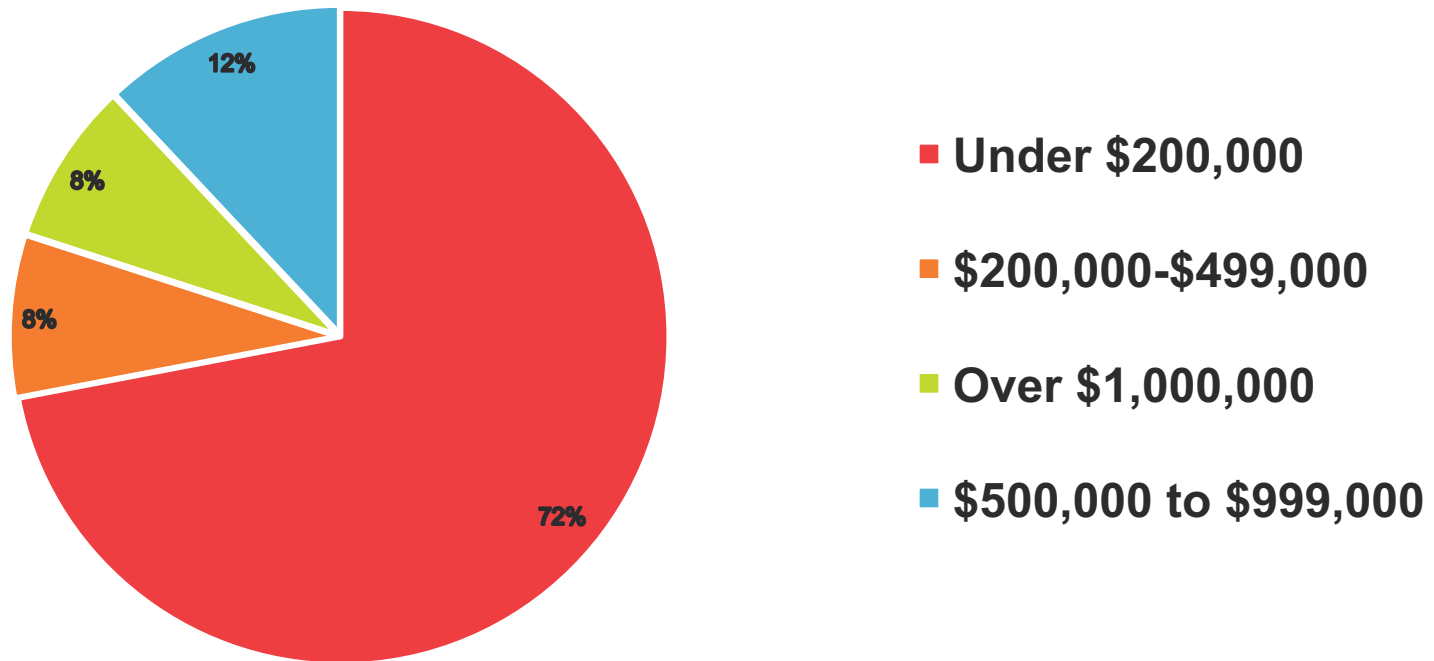
## A wake up call

- **IAB: Malvertising is costing the American marketing and media industry: \$1.1 billion**
- **IAB: Out of \$1.1 b, \$780m is lost because of ad blocking**

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# The Online Advertising Market Perspective

## Publishers losses because of ad blockers



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# Web Users' Perspective

## Ad blocking is the name of the game

- According to KPMG's survey in UK:
  - 60% of 16-24 year-olds in UK plan to make use of ad blocking in the next six months
  - 55% of people earning more than £55,000 are using or are planning to use ad blocking in the next six months
- According to IAB UK:
  - 22% of British adults online are currently using ad blocking
- Mobile operator Three to introduce adblocking across its UK and Italian networks

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# Publishers' Perspective

## Bad reputation

- **Less visitors**
- **Bad reputation within search engine = down the result list**
- **Income disaster**

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# Browsers' Perspectives



- **Google Chrome: “HTML5 by Default” by 4<sup>th</sup> Q of 2016**
- **Microsoft’s Edge will pause Flash ads on the upcoming updates**
- **Opera featured last March a native ad blocker**
- **”Brave” is a new browser which automatically blocks ads**

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# Web Criminal's Perspective



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# Reduction of Attack Surface

Staying safe is in your hands



- **Plugins – Click to Play**
- **Use the most advanced browsers like Chrome and Edge**
- **Keep your browser and its plugins constantly updated**



# Q&A