

August 2017

# The Economy Behind the Phishing Websites Creation



ClearSky Cyber Security

# **Table of Contents**

Sı	ımmary	3
Α	ctors	8
	Vendor1	8
	Vendor2	15
	Vendor3	18
	Vendor4	22
	Vendor5	25
	Vendor6	29
	Vendor7	30
	Vendor8	33
	Vendor9	35
	Vendor10	36
	Vendor11	37
	Vendor12	38
	Vendor13	39
	Vendor14	41
	N. I. AE	4.0

## **Summary**

The main aim of this research is to understand and describe the eco-systems of fake websites developers and designers, and the basic economy behind creation of fake websites that impersonate legitimate websites of banks, credit cards companies and corporations. Mostly, the aim of those fake websites is stealing credential (banking or corporate) or credit cards information.

As part of this research we checked dozens of popular Russian and English-speaking underground boards and forums, looking for vendors' topics that provide services of fake webpages creation. On the second stage, when it was available, we conducted HUMINT operation and made a direct contact with those cybercrime vendors of fake sites via instant messaging (mostly jabber) to get deeper understanding of their skills, works and pricing.

Totally, we have checked about 15 different phishing vendors, when the main criteria were the skills of the vendor, the prices and how he makes the fake site.

We have checked a price for two main types of fake sites:

- 1. **Banking login page** that is similar to real one when the aim is to steal the login and the password to banking account.
- 2. **Second stage to the banking login page** in order to steal additional information page that do not exist in real bank website and asks the user to enter their credit cards number, expiration date and CVV number.

In addition, we have checked whether the vendors are just duplicating the original website, or developing it from scratch/partially.

Why does it matter? – Because mostly the duplicated websites are being exposed and taken down quicker, and as one vendors (VENDOR9) told us – duplicated websites, in many cases are being blocked by Chrome/Safari:

Vendor9: it is foolish to duplicate — will be exposed immediately Vendor9: in chrome/safari Vendor9: I'm developing myself

Some of the vendors (like *Vendor5*), also add some kinds of filters to prolong the time of the fake website till it is being exposed:

Vendor5: I have also another filter

*Vendor5: the life time is significantly longer* 

ClearSky: which filter?

Vendor5: as a defense from different bots

Vendor5: and scanners

We have seen that some of the vendors, mostly the more qualified ones are aware of those issues and mention it in the conversation, while the lower quality "developers", or in other words the script kiddies who try to earn money don't even understand what is the difference between just duplicate a website and develop a fake from scratch. To note, that some of the vendors, duplicate the website and make basic "cleaning" i.e. basic changes in HTML and content.

Below is a table that summarizes the key points of the research (to note that in the public version of this report we censored the nicknames of the vendors. This is done for the purpose of not promoting them):

Vendor	Abilities	Beginning of the service	Price for fake banking login	Price including another page for CC+EXP+CVV grabbing	Duplicate/ Develop
Vendor1	Back-End, Front-End developer – limited knowledge	January 2016	25 - 100 \$	150\$	Duplicate
Vendor2	Developer with 5 years' experience	February 2017	15\$	50\$	Duplicate
Vendor3	Developer with Javascript, HTML, CSS, PHP, jQuery, Bootstrap, Sql, Sqlite knowledge	September 2015	150\$	150	Duplicate
Vendor4	Designer and developer	November 2016	Begins on 100\$		Develop
Vendor5	Developer	2015	200\$	250\$	Develop
Vendor6	Developer	May 2017	100\$	150\$	Depends on the complexity
Vendor7	Developer – limited knowledge	August 2016	30\$	250\$	Duplicate, for complex fakes - develop
Vendor8	Developer	May 2016	17-42\$	-	Duplicate
Vendor9	PHP Developer	April 2017	40\$ + feedback	100\$	Develop
Vendor10	Developer	February 2017	70\$	No additional charge	Develop
Vendor11	-	February 2017	~17\$	-	Duplicate
Vendor12	-	May 2017	40\$	65\$	Develop
Vendor13	Front End Developer	June 2017	33\$	50\$	Develop
Vendor14	Basic knowledge in HTML and CSS	April 2017	50\$	-	Develop

We can see that there are two different types of professionals who are required to fake websites creation: the **developers** and the **designers**. Some of the fake websites service providers, who are developers, work with 3<sup>rd</sup> party designers when a design / change in the websites is required. We can see it from our conversation with one of the vendors named "*Vendor2*":

Vendor2: there is separate design studio, we can separately make highly professional template

Vendor2: regarding the design. He is a partner. He works officially.

Vendor2: I build shops, make up mails, fakes. Can conduct projects .Design I even don't offer, will talk with him regarding his works

From pricing point of view, the average price for banking login page is about 60\$, when the pricing is mostly divided into two groups, those who just duplicate the original site mostly price it at about 20-30\$ and those who develop the fake website from scratch price it at 50\$ or more, when some of the vendors ask about 150-200\$ for their work.

When we asked for pricing for additional page that not exist at real websites, for grabbing and stealing credit cards data, in some cases the price was significantly raised because this additional page required some development and design work, and not just duplicating existing page.

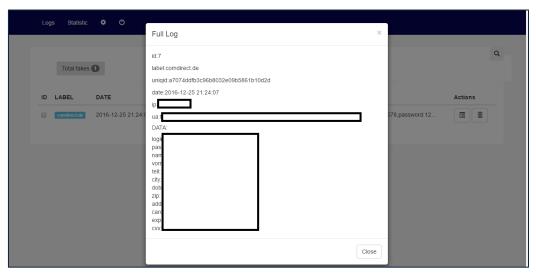
Some of the fake sites vendors, also develop different tools and panels that allow them to collect in a proper and comfortable way the stolen credentials and offering it for additional payment to fake websites buyers.

One of the additional services that some vendors offer is control panels that allow collecting all the required data and log in convenient manner.

One panel is introduced and beign sold by "Vendor3":



Another one is built and developed by "Vendor5":



Most of the vendors, work very hard to promote their services, constantly pump up their topics in different forums, and although the basic pricing of most of them is relatively low, in order to gain proper reputation, they offer various kinds of actions and discount.

For example, one of the young leading vendors of the last year, "Vendor1", offered free creation of fake websites for TLD .de for limited time:

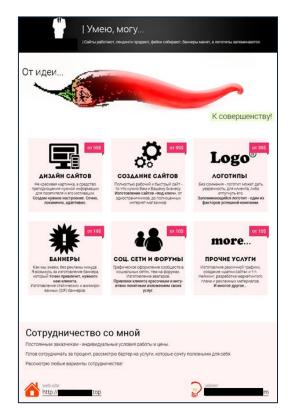
Hello to Everyone!
Brother Bear provides free service that is available only till 9th May.
Creation of fake websites to not very important services from TLD DE – for free.)
To one person from the forum – 1 fake. )
Write via the contacts and after receiving the result – post here your feedback.)
Thanks all for the attention.
p.s. Regards Vendor1

This quotation, as well as most of the quotations, and conversations with the vendors, was originally in Russian, and were translated, edited and redacted when it was necessary, while we tried to keep the essence of the chat and the language level as near to the original as it was possible.

In terms of time, there are vendors who are ready to conduct their work in timeframe of ten minutes or within an hour, but there are vendors who ask for several days.

Some of the vendors also publish colorful advertisements:







As they are acting as service providers, most of the vendors are very polity and patient to answer any questions that potential clients have (even too polite):

Vendor1: Thank you very much.) Good evening to you also. Write in any convenient time to you, i'm always available. Will do everything quickly and with high quality.

One of the vendors we had a conversation with, mentioned also some interesting points about creating good banking fakes:

Vendor4: I did such fakes for landing for CC grabbing, something else. Landings for (malicious – Clearsky) downloads, mostly fakes for corp. websites (duplicates or based on the original) for scamming.

ClearSky: shortly, everything except for banks

Vendor4: except for banks/retail/ social networks)

...

Vendor4: why I don't like fakes. If it is required just to make logs of the data from the forms (to txt or to mail) – welcome, I can do it. If it is required to do validation of the credentials on the original server, it is not for me. Better talk with those who specialize on this) will be done faster and will cost less) I simply don't have time to deal with this. Understand me.

Vendor4: things that I'm proficient in, I do good and properly, what I'm not – and don't have time to study (because of high amount of work), so better I'll refuse than not keeping the deadline and losing my reputation.

In this research, we present in depth the vendors, their modus operandi and pricing and examples of their previously done works.

## **Actors**

## Vendor1

The first vendor, "Vendor1", offers fake websites developments services, beginning from January 2016. He is mostly active in Russian speaking forums, but also tries to advertise his services in English speaking boards, although it is visible that he is not proficient in English:



From this post, we can see one of his pricing offers - providing a full set of services for someone who conducts phishing activity, this includes: fake website + obfuscation + HTML mail + API (for credential grabbing) for 200\$, not including the domain registration and the hosting. In other post, he explains that he has "API for fakes" that allows to gather credential stolen from different fake websites to one admin panel on another hosting. This offer is higher than average pricing, and as to our assessment it is possible to bargain the price.

Checking his history and posts on other boards, we see that he defines himself as back-end and front-end web developer but not as designer/ painter. At some stage of the work, in April 2017, he updated that his team has additional front-end developer, so he can conduct the orders even quicker.

Although, he advertises his services also in English speaking forums, lately, in May he posted that he is not ready to work with English speaking persons, especially those who want to create fake pages to Russian entities (e.g Sberbank):

I don't work with all the English-speaking representatives of the manhood! No way! In no circumstances!

Especially with those who write "You can make scam page sberbank + curl validation script?" I will immediately write here, in the forum about such "Heroes" that work on RU.

Thank you that you read and acknowledged with this message.

If you are "I no understand russian", etc. – those are not my problems in any way.

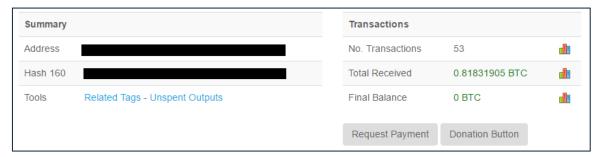
There is google translate – so use it!

For everyone else – only good: I'm free for now from orders.

P.S. Best Regards Vendor1

He works via escrow or 50% pre-payment only; via BTC and the results are provided in some cases immediately.

One of his payment wallets was exposed and by checking it we can see many of the professional activity of this vendor in the end of 2016 - beginning of 2017:



Below are the incoming transactions details, that allows us to understand about the income of phishing pages vendor:

Date	ВТС	\$ (in the time of
Date	DIC	the transaction)
2016-11-20	0.00670527 BTC	4.97
2016-11-26	0.00685868 BTC	5.01
2016-12-19	0.01897575 BTC	15
2016-12-20	0.0189285 BTC	15
2016-12-29	0.0103088 BTC	9.97
2016-12-30	0.0104249 BTC	10.01
2017-01-15	0.0245922 BTC	20.04
2017-01-16	0.0361335 BTC	30
2017-01-19	0.055144 BTC	49.99
2017-01-23	0.0543085 BTC	50.03
2017-01-23	0.027001 BTC	25.03
2017-01-23	0.05393743 BTC	49.97
2017-01-26	0.05500671 BTC	50.44
2017-01-27	0.021888 BTC	20.12
2017-01-31	0.036708	34.96
2017-01-31	0.036771 BTC	35.01
2017-02-06	0.014994 BTC	15.25
2017-02-07	0.02408 BTC	25.36
2017-02-08	0.024126 BTC	25.16
2017-02-08	0.03325921 BTC	35.19
2017-02-14	0.049371 BTC	49.87
2017-02-15	0.05 BTC	50.43
2017-02-15	0.014817 BTC	15
2017-02-18	0.02 BTC	21.09
2017-02-18	0.015 BTC	15.88
2017-02-19	0.08 BTC	84.48
2017-02-19	0.0189796 BTC	19.97

During those 3 months, the total income is about 800\$, but the average income for each fishing website conducted (with a highly possible assumption that his only income is from fakes) – is really low, about 29\$.

This transaction report from Blockchain is going together with his basic pricing that is very low. Basic fake website that requires to put in the login + password and afterwards shows a message that required input of CC + expiration date + CVV – is 25\$.

In one of the forums, he began offering his services during 2016 to make fake website for 300-500 rubles (5-9 \$). Because of his low prices, he needs to get a lot of clients, to profit. Therefor he also conducts different promotion actions, as well as discounts.

In beginning of May 2017, he launched a promotion for creating fake sites for Germany websites for free:

Hello to Everyone!

Brother Bear provides free service that is available only till 9th May.

Creation of fake websites to not very important services from TLD DE – for free.)

To one person from the forum – 1 fake.)

Write via the contacts and after receiving the result – post here your feedback.)

Thanks all for the attention.

p.s. Regards Vendor1

This promotion run only one day, and was changed in a day for promotion with 20% discount:

Hello to Everyone!

Bear launched yesterday small promotion and everyone who contacted me via jabber – received his free fakes.)

Now is starting the second step of the promotion.) Following is the essence of this step.) I provide discount of 20% for all TLD's, except of RU (for Poland the discount is 30%)

If the TLD is DE, and you order 1 fake, the second one is totally free.)) Any.)) Even for banking.))

Thanks all for the attention if you read it.)

p.s. Regards Vendor1

As part of our investigation we conducted direct conversation with the vendor, and as part of it we understood his pricing that is between 50 to 100\$ for fake (as to our understanding with possibility to bargain)

Below are the main parts of the conversation (edited and translated from Russian original):

ClearSky: I want to know the pricing for a relatively simple fake

Vendor1: Starting from 50\$

Vendor1: Anything do to with CC, starts from 100\$

ClearSky: that's a reasonable base price ...what is the maximum?

ClearSky: what will add to the cost?

Vendor1: The complication and the type of the website

ClearSky: for example, the website online. \*\*\*bank. \*\* (redacted by Clearsky)

Vendor1: Do you need desktop and mobile version?

ClearSky: yes

ClearSky: what is the difference in the price?

Vendor1: exactly 100\$.

Vendor1: You are interested in a login page, am I right?

ClearSky: yes

Vendor1: So exactly 100\$. Suits you?

ClearSky: are you duplicating or developing?

*Vendor1:* What is required?)

ClearSky: duplicates get exposed faster

Vendor1: Not necessarily my friend.) If it is duplicated – cleaning - obfuscation.)

Vendor1: It will be like developed

Vendor1: It only requires a couple of decent hands and some common sense

....

....

ClearSky: and if I also want to add to the fake another page (second stage) for cc + cvv ... how will this affect the price?

ClearSky: this page doesn't exist on the real website

Vendor1: I can use the login page as a template and just add to it other fields

Vendor1: It won't add much, about +50\$ considering the fact that it will be also obfuscated Vendor1: And it is going without saying that there is support of all my works.

...

Vendor1: Understood. If the price is a bit too steep, there is room to bargain Vendor1: People? A lot of people order banks pages with gathering of the info.

We succeeded to get logs from several of his conversation with his real customers, and those conversations provides us with deep understanding of fakes creation deals (all the conversations are originally in Russian).

From Vendor1 conversation with Customer 1 we can see the final low costs of fake works, about 25\$ for a fake creation:

Vendor1: I hear you.

Customer1: https://,,,,,?ei=mv\_log-on
Customer1: need to collect login password
Customer1: after this to show a message that it is required to enter cc, expiration and cvv
Customer1: what will be the cost?

Vendor1: 25 \$

Customer1: do the fake, upload it to your hosting, I will test it— and if everything ok I pay 30

Vendor1: Pre pay 50% and I begin to work

Another conversation that was exposed is with another customer (Customer 2) that asked duplication of a website, changing the language of the website and adding to the payment page different BTC wallet. All this is only about 30\$. From this conversation, we can see also that these fakes vendor abilities are very limited.

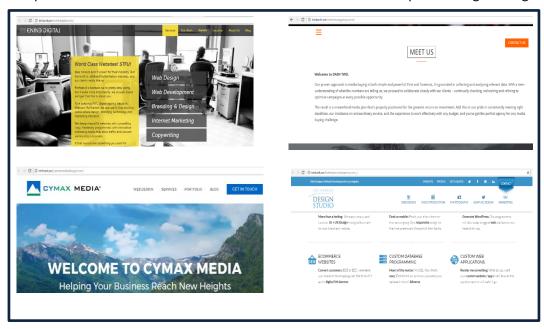
The website that was ordered to be duplicated is btcbank.io:



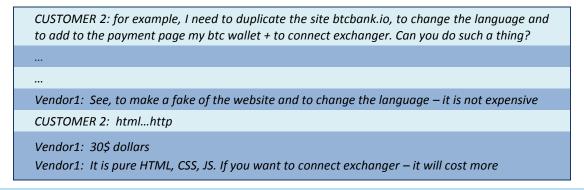
The fake domain name that was opened to this affair is btcbank[.]pw, btcbank[.]win and bitcoindoubler2017[.]com. In the websites themselves we see mostly hosted different websites that impersonating web design and advertisement agencies:



Below are samples of several of the fake website hosted on the server and impersonating real organizations:



Below are relevant excerpts from the conversation between "Vendor1" and "Customer 2":



CUSTOMER 2: but you are able to do this? CUSTOMER 2: the question is whether you are able or not CUSTOMER 2: I need this type of work all the time CUSTOMER 2: it seems that what I need is to copy the website, to replace the text. I will prepare the text, and will give it to you. I need to be able to upload to my domains the content, and that's CUSTOMER 2: superb CUSTOMER 2: good evening Vendor1: Thank you very much.) Good evening to you also. Write in any convenient time to you, i'm always available. Will do everything quickly and with high quality. CUSTOMER 2: so, I'm ready to order. Need full copy of the website btcbank.io Vendor1: And in the home page should be your wallet, that it will look like you are the last who paid. Vendor1: Right? CUSTOMER 2: I don't understand Vendor1: btcbank.io Vendor1: In the page where there is a list of wallets that deposited money CUSTOMER 2: oh, yes CUSTOMER 2: there should be my wallet. right. and I must have the possibility to edit it, simply say me where Vendor1: See it, I can't duplicate the chat window, it is part of site's engine Vendor1: The red window that is in the top, I will try to add also Vendor1: In the terms of time – I need for this 5 days. Vendor1: I have someone who can do such a work. He is already sleeping, but I will contact him tomorrow and solve the issue CUSTOMER 2: a normal person? Vendor1: Yes. We know each other for a long time and he doesn't bullshit me. CUSTOMER 2: you yourself don't change – design the templates? Vendor1: I'm Back-End, Front-End, and that's all. I'm a painter like Hitler is Mother Teresa. CUSTOMER 2: how much should I pay for the logo and your work? Vendor1: The remaining 50% is 10\$, for the chat - pay the sum you ready to pay and for the logo 10\$. CUSTOMER 2: I sent 30 CUSTOMER 2: bonus for quick work

Another conversation of this vendor shows the process (and the low payment of about 20\$) for fake page for cartetitolari.mps.it, Italian credit cards service:

Customer 3: regarding fakes Customer 3: do you make? Vendor1: I do. Customer 3: https://www.cartetitolari.mps.it/ Customer 3: what will be the price? Vendor1: 20\$ Customer 3: can you show examples? Vendor1: no problem. Vendor1: https://\*\*\*\*.ws/threads/fejk-blockchain-inf\*\*\* .... Customer 3: I will tell what info to grab after the login? Customer 3: need to grab info Customer 3: I'm sending you 10\$ for now Vendor1: There on the page place to enter login and password, so only this info can be grabbed Vendor1: ok. Customer 3: I know, but it can be not enough Vendor1: I'm listening to your requests. Customer 3: as always. Do you do obfuscation? Customer 3: sending to mail? Customer 3: if you don't do obfuscation, I will order from someone else Vendor1: Sending to mail or reports by logs, will be to ftp. Customer 3: I need it to be sent. Can you? Customer 3: ok ok, ftp is ok Vendor1: obfuscation I don't do. Sending to mail can do. Customer 3: the logs are sent to ftp, yes, Vendor1: they are being saved on ftp. Vendor1: the same ftp that hosts this site Customer 3: in short, locally Customer 3: not in ftp Customer 3: where it is saved? Vendor1: into data\_cc.txt

Another vendor who is offering web sites/ fakes development services is "Vendor2" posted the following topic in one of the underground forums in February 2017:

Web development /Creation of websites of any difficulty":
Services:
1) Creating a website (any difficulty).
Working with php, phyton, javascript, SQL.
Engines: Drupal, Wordpress, Opencart, yii2, django
2) Imposition of any pattern of difficulty
3) Make-up for mobile devices
4) Develop a site design, emal letter panache banners, logos
5) Site Promotion - social networks, instagramm, Google, Yandex
6) Remaking documents in Photoshop

Advance payment 50%.
Contact details:
Jabber: (redacted)

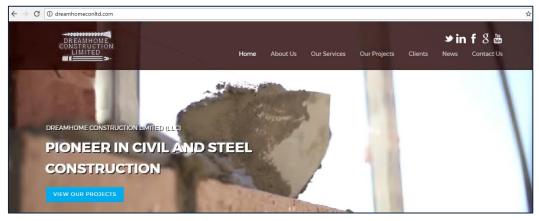
If necessary, I can put together a team

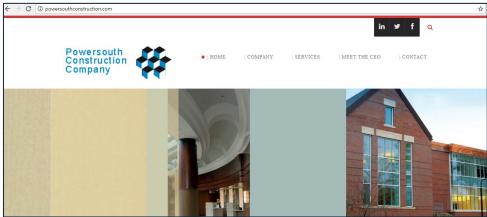
Payment on Bitcoin or webmoney

But this topic didn't work well for him and didn't attract potential clients, so in May 16<sup>th</sup> he launched a new topic advertising his services, this time with colorful graphical advertisement and basic pricing:

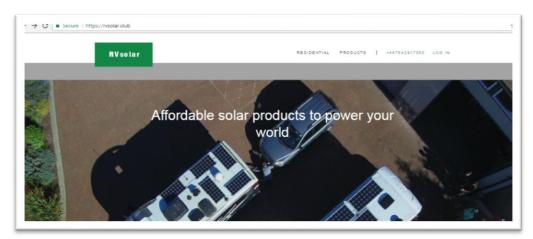


As part of our direct contact with the vendor we have seen that his pricing for basic banking fakes is very low and begins as low as 15\$ for duplicating the required page. If it required to develop and design a new page or website, the **vendor works with separate design studio**, that is a legitimate studio that basically provide normal design services. He has 5 years' experience, and provided 2 examples of fake websites he done lately

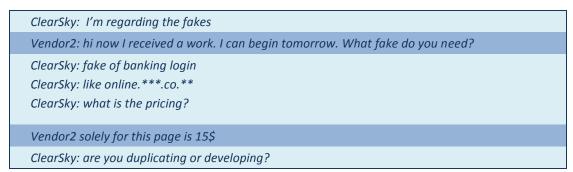




As well he has provided an example for a shop he developed, that its aim is money laundering:



#### Below is our full conversation with this vendor:



Vendor2: duplicating Vendor2: what does it mean developing? to do something in photoshop? Vendor2: there is separate design studio, we can separately make highly professional template ClearSky: and what will be the price for a template of such a website? Or if I will add additional page that doesn't exist in the original? ClearSky: good day, do you have an answer? Vendor2: yes, I have. It is not cheap 3000 rubles Vendor2: for one page ClearSky: understand. Not cheap. ClearSky: do you have examples of works? Or feedback? Vendor2: regarding the design. It is a partner. He works officially. Vendor2: I build shops, make up mails, fakes. Can conduct projects .Design I even don't offer, will talk with him regarding his works. ClearSky: understand. And examples/feedbacks of your works? Vendor2: powersouthconstruction[.]com , http://dreamhomeconltd[.]com Vendor2: recent fakes Vendor2: generally I collected a lot of projects Vendor2: experience of 5 years Vendor2: here in (redacted – Clearsky) I am a new member ClearSky: ok. Thx.

Vendor2: http://rvsolar[.]club Vendor2: shop for money laundering

This vendor began his offering in September 2015 which included variety of services like Android and Windows injections for different bots, Phishing Pages and Fakes, and Phishing Pages with SMS/Token intercept.

The vendor presents himself as someone who is proficient in JavaScript, HTML, CSS, PHP, jQuery, Bootstrap, SQL and SQLite.

In direct conversation with the vendor we have seen that a price for basic banking login fake that is suitable for desktop and mobile costs 150\$, including the ability to add additional pages for stealing credit cards information. To be noted - he is not developing the pages from scratch, but duplicating the pages with slight changes in HTML elements and texts.

This vendor biggest specialty is phishing pages with SMS/Token intercept (mostly android injections), allows to bypass the defenses that use One Time Password (OTP token), using mechanism that allows the malicious attacker to use this token during 30 second, before the next page is loaded in victim's machine.

During last June, the vendor posted an explanation what he does to protect his fake page against detection, and mentioned several issues:

- 1. HTML Encode all body content of the page looks incomprehensible, building it by JavaScript document.write function (for clients it don't make any difficulties to edit code because all this encoding been made by PHP while page render)
- 2. Although, he doesn't develop the pages from scratch, he recommends conducting the following changes to keep the pages undetected:
  - a. Keep all files locally
  - b. Scale and rename all images
  - c. Filter all text content with special tools
- 3. Generating unique URL for every visitor
- 4. Browser notifications using several tricks to gets rid of all browser notifications for all his pages.

Clearsky: I want to know the pricing for

relatively simple fake

Clearsky: like online. \*\*\*bank.co. \*\*

Vendor3: it is not simple

Vendor3: fake desk. + mobile = 150\$ Vendor3: what more can I help in?

Clearsky: and if I add to the fake another page (second stage) for (collecting -Clearsky) cc + cvv ... how it changes the price?

Vendor3: the same price

Clearsky: ok

Vendor3: see

Vendor3: you order a fake

Vendor3: and you will have a week Vendor3: to decide about stages

Vendor3: and parameters

Vendor3: of course, there are limits to

everything

Vendor3: but to add one stage ore one

parameter is not a problem

Vendor3: it doesn't influence the price

Clearsky: are you duplicating or developing from scratch?

Vendor3: what's the difference?

Clearsky: in some cases, the duplicated are being exposed quicker

Vendor3: I change elements in HTML Vendor3: it is the same as to developed

Vendor3: html is changed Vendor3: the texts also

Vendor3: don't see a difference

The vendor sells ready-made phishing / injections packs for variety of countries and banks worldwide when the average price for 1 page is 50\$. The ready injections/ phishing pages the vendor offers include the following:

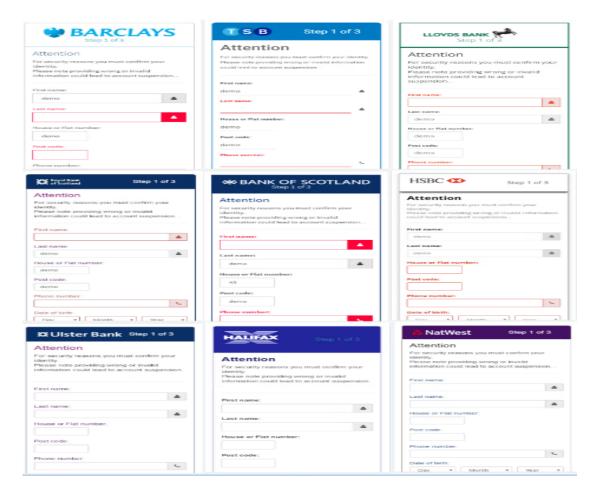
• Canada - Pack of phishing pages for Canadian banks and credit cards collectors with admin panel on HTTPS domain and sets phishing pages - TD bank, CIBC, BMO, Desjardins Bank, RBC.



 France - ready-made fake pages for different financial institutions including Assurance Banque, BNP Paribas, Boursorama Banque.



 UK - bank injects for android among them Barclays, TSB, Lloyds, Bank of Scotland, HSBC, Ulster bank, Halifax, NatWest and Royal bank of Scotland.

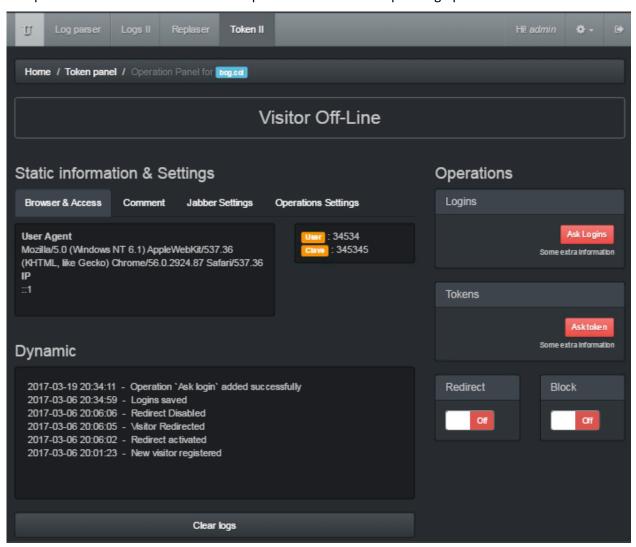


- Columbia banks and Credit cards collectors with admin panel on https domain banks observed: Bancofalabella, Rbmcolombia, Colpatria, Bancolombia, Bancodeoccidente, Bancodebogota, Bbvanet, Bancopichincha
- Turkey
- Germany
- Thailand
- USA.

In addition, he sells "Universal Admin Panel" that can be integrated with different kinds of injections and phishing pages:



This panel allows to deal with real-time operations between the phishing operator and the visitor:



Another vendor, "Vendor4", launched in November 2016 new service on several forums under the following title: "Design from banner to portals! Websites, fakes, landing. Front-end web development, websites, creation of websites, banners, etc." He also published the following



As part to promoting his services, and in addition to topics in several forums, he also created a website and there posted info about himself, and about his works:

#### About me

I Love: minimalism, creative solutions, shocking, fast speed, my wife and son, BTC.

Work in: MY BRAIN&MIND, Adobe Photoshop,

HTML, CSS, and PHP.

#### Portfolio

Go to the portfolio on Imgur (banners only)

Attention! Unfortunately, I can't put in a portfolio, most of the work because of specifics of customers. Peace everyone!

RUS: К сожалению, я не могу выставить в портфолио большинство работ, из-за специфики работы заказчиков.

Всем добра!

From a direct conversation with this vendor we see that he prefers not to do fakes for financial website, but specializes on making fakes to big corporate websites. He also emphasizes that he is not proficient in making validation of the stolen credentials against the original website/ servers.

ClearSky: I am contacting you regarding the fakes

Vendor4: somehow there is a hype today: D

Vendor4: for now bro I don't have time to another work, sorry, I'm overloaded with work

ClearSky: it's not urgent

Vendor4: so, tell me)

ClearSky: want to ask for fakes pricing

Vendor4: fakes price begins from 100

ClearSky: even such a simple fake as for online.\*\*\*.co.\*\* for example?

Vendor4: and even this depends on the fake, there are some that I prefer not to do at all

ClearSky: do you develop or duplicate?

Vendor4: develop and write from scratch

Vendor4: such fakes – I prefer not to do at all – honestly, it is better to take those who specialize

on them

ClearSky: and fakes from scratch? ClearSky: so, what is your specialty?

Vendor4: I did such fakes for landing for CC grabbing, something else. Landings for (malicious – Clearsky) downloads, mostly fakes for corp. websites (duplicates or based on the original) for scamming.

ClearSky: shortly, everything except for banks

Vendor4: except for banks/retail/social networks)

ClearSky: understand. Corp can be also relevant

Vendor4: )))

ClearSky: do you have some examples of your works?

Vendor4: I will say in such way. Have but haven't, at the same time;) have feedback in (redacted - Clearsky)

Vendor4: it will be easier in such a way. Say what is required and I will say whether it is possible or not. the price and the terms.

ClearSky: 2 things (not urgent).

ClearSky: 1. Login page for corporate mail

ClearSky: 2. Full corporate website, that has 2-3 different login page

Vendor4: do you need validation or the forms content or simply to put the entered credentials to file/mail?

Vendor4: why I don't like fakes. If it is required just to make logs of the data from the forms (to txt or to mail) – welcome, I can do it. If it is required to do validation of the credentials on the original server, it is not for me. Better talk with those who specialize on this) will be done faster and will cost less) I simply don't have time to deal with this. Understand me.

Vendor4: things that I'm proficient in, I do good and properly, what I'm not – and don't have time to study (because of high amount of work), so better I'll refuse than not keeping the deadline and losing my reputation

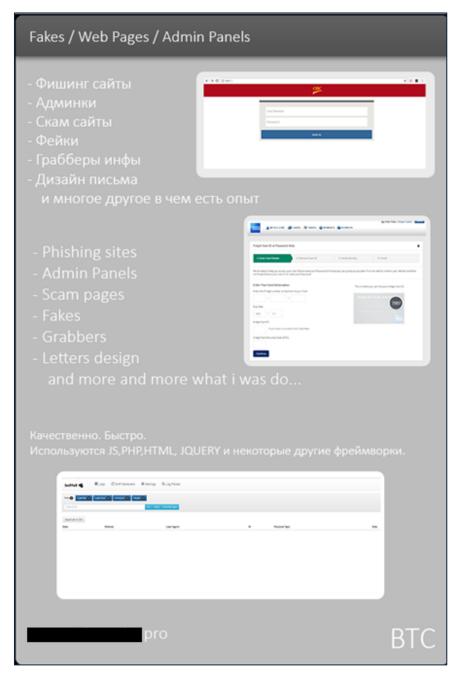
ClearSky: in one page, there is a small verification for validity ClearSky: and the full corp. website – no need for validation ClearSky: what is the approximate price for such a website?

Vendor4: if the validation is on the side of the original server (i.e. can such a user enter to the original website - so ok. If otherwise - so stop) - I can't do it currently)

Vendor4: (the price – Clearsky) depends on the website, how many pages, complexity of its development (as I said, I make it from the scratch, fit it for the original – so if there will be changes, nothing will look out of the ordinary

Vendor4: it begins from 100, till fuck knows how much it can be) depends on the original, on work volume.

Another subject is verified seller "Vendor5" that began offering his services in 2015 and advertises himself via the following:

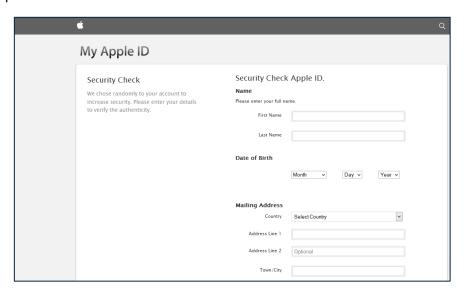


The vendor posted that he copies the needed sites, with required changes, beginning from 50\$. He emphasized that his fakes survive for a long time because mostly he develops the required page from scratch, and not duplicates it as most "developers".

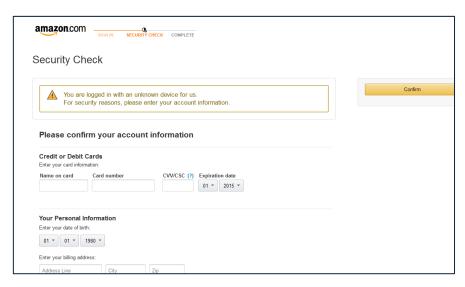
He also presents possible functionalities and add-ons to his services:

- >>>Delimitation of user permissions (access to specific parts or functionalities)
  >>> Hosting on .onion
  >>> Deposit of balance through BTC
  >>> Ticketing system with live updates
  >>> Defense from SQLi and XSS attacks
- As part of advertising his services and showing his abilities, he also presents several ready-made high-quality fakes for the most popular websites and services:

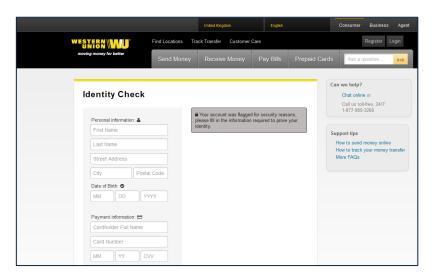
#### 1. Apple



#### 2. Amazon



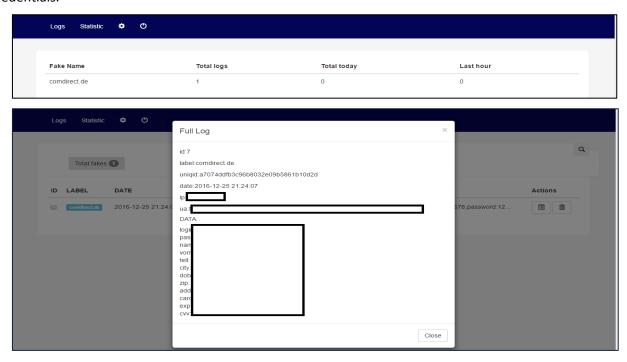
#### 3. Western Union



In addition, he specifies, that he has ready fakes also for the following sites and services:

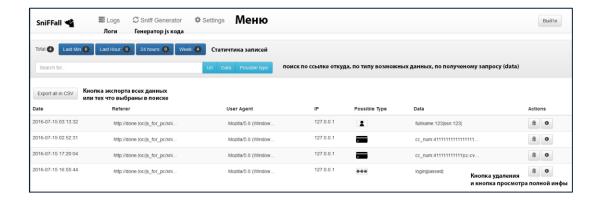
- 1. Paypal, including automated language selection
- 2. Visa
- 3. Suntrust Bank
- 4. UK banks
- 5. Gmail
- 6. Landing page for Flash Player

This vendor also presented admin panels that he attaches to the fake websites and help to collect the stolen credentials:

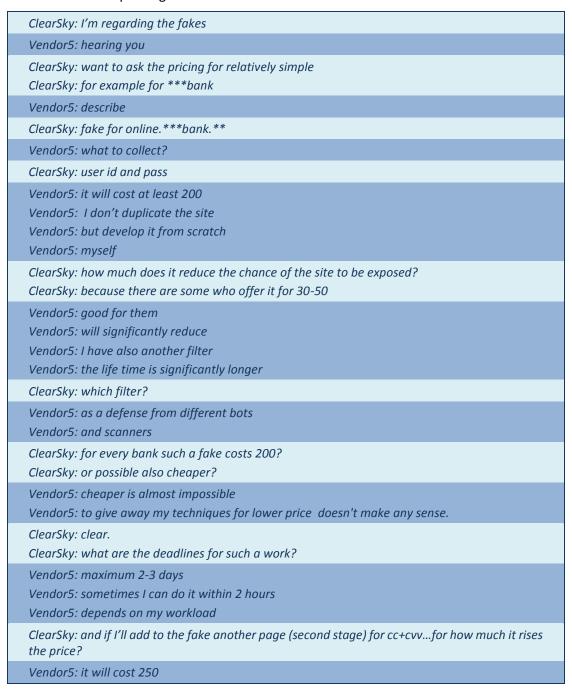


As we see this vendor is a specialist for different kinds of services and products and during June 2016, he also launched new product – "SniFFall", universal sniffer of CC, passwords of controlled websites.

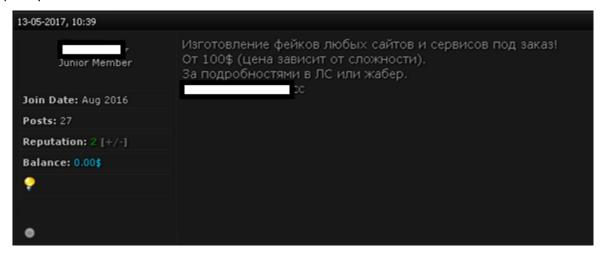
It works by inserting small JS code to the website and receiving to the admin panel all the requests and forms filled in the page that includes the JS code. The cost of this component was 250\$.



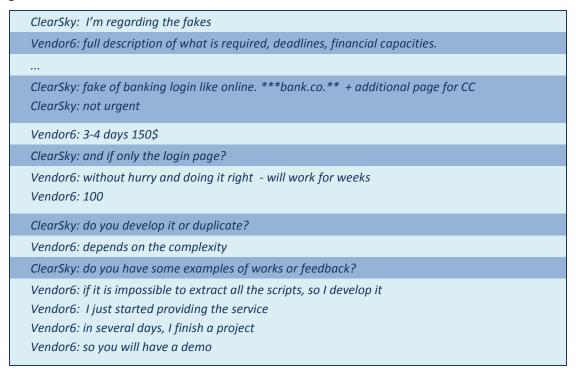
From conversation with the vendor, we can see that his prices for a simple banking fake are relatively high (about 200\$), this due to the fact that he develops the website from scratch and adds some filters against botnets and scanners that prolong to the life of the website:



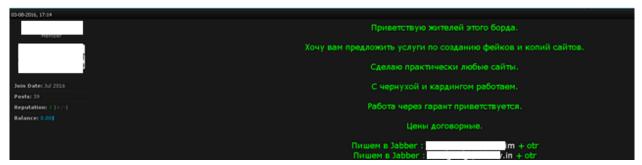
Vendor by the name "Vendor6" offers fakes development, for price beginning from 100\$, depends on the complexity:



From conversation with the vendor, we see that he is a fresh service provider who don't even have examples of his works to provide, but his pricing is relatively high and is about 150\$ for banking fake and credit cards grabbing:



Another vendor, "Vendor7", beginning from August 2016, offers services of fake websites creation and advertises his services in more than 10 different Russian underground forums

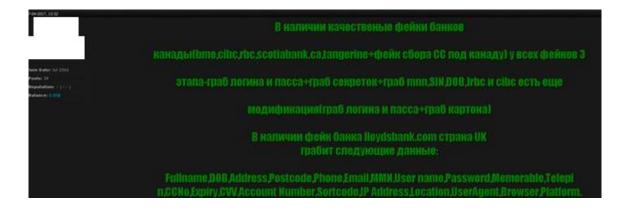


In addition, he offers ready high-quality fakes of Canada banks (BMO, CIBC, RBC, Scotiabank, Tangerine) and fakes for Credit Cards collection in Canada. He explains, that all those the fakes have 3 stages:

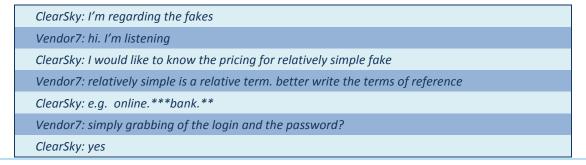
- 1. Grabbing of login and password
- 2. Grabbing of credit card numbers and CVV
- 3. Grabbing of MNN, Social Insurance number(SIN) and Date of Birth (DOB)

In addition, he mentions that he has ready fake for Lloydsbank, UK that grabs the following information:

Fullname	Email	CCNo	IPAddress
DOB	MMN	Expiry	Location
Address	Username	CVV	UserAgent
Postcode	Password	Sortcode	AccountNumber
Phone	Telepin		BrowserandPlatform



In one of one conversation, the vendor presents several of his works (credit cards and banking accounts shops) and states that the price for basic fake is about 30\$, but if there is requirement for a more complicated fake – it will cost 250\$.



Vendor7: 30\$ ClearSky: are you duplicating or developing? Vendor7: duplicating, with development it will be more expensive ClearSky: those that are duplicated are being exposed very quickly ClearSky: and how much with development? Vendor7: now I'm doing as a trial a fake with development. Tomorrow will update when it is finished – whether succeed in it or not. another bank I'm doing tomorrow and will update on the exact price Vendor7: Now I'm exactly doing a bank (fake - ClearSky) which is being exposed after 1-2 minutes of being in browser ClearSky: and if I add to the fake another page (second stage) for (collecting -Clearsky) cc + cvv ... how it rises the price? Vendor7: such complete fake, with cards gathering + anything else you need will cost 250\$ Vendor7: it is developed ClearSky: understood. Do you have some examples of your works, or feedback? Vendor7: examples of my works: https://\*\*\*.cc/ - CC shop http://\*\*\*-market.cc/ - Bank accounts shop https://\*\*\*\*exchangebit.me/ - Egift shop Vendor7: logs are to be sent to mail? ClearSky: prefer so, but if there is a big difference in the price – possible txt Vendor7: no difference, as you prefer ClearSky: do also do fakes for corp. websites? Vendor7: yes Vendor7: show an example of what needed ClearSky: http://www.\*\*\*\*.org/ + https://member.\*\*\*\*.org

The conversation took more than one day, and consisted of checking the possibility to conduct a fake for complex corporate site, to impersonate big corporation – the vendor asked for this work 150\$:

ClearSky: the second thing is corporate website

Vendor7:
https://member.\*\*\*\*.org/\_layouts/\*\*\*\*/SPI/shell/login.aspx?ReturnUrl=
%2f\_layouts%2fAuthenticate.aspx% 3fSource%3d%252F&Source=%2F
here is required to grab only mail and pass?

Vendor7: it also should be developed?

ClearSky: yes, and yes. But also, the main website is required
ClearSky: how much it will cost?

Vendor7: so there will be the main page and another one with the grab. Other links to forward to the original or to develop all the pages?

ClearSky: need all the pages

Vendor7: let's now go over the details and afterwards I will say the price

Vendor7: so wait a min, I will check

#### ClearSky: ок

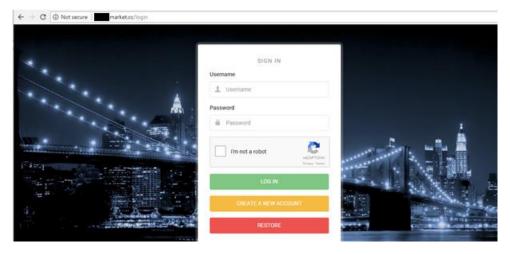
Vendor7: see, I checked now the corp. website and think it makes no sense to do it with screenshots, they don't have any normal defense on the website. And it will cost less to you. Regarding the bank – of course with screenshots. The corp. website will cost 150\$ (there are many pages to be ripped) and the fake 250\$, will be developed

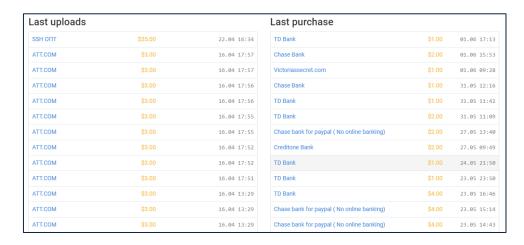
Vendor7: will try to do it within 3 days

Vendor7: http://prntscr.com/\*\*\*\* I already ripped one page, to check what it going on there

Apart of conducting regular fakes he also makes online shops with different payments possibilities, of course for illegal purposes like money laundering, cashing out virtual credit cards, etc.

He presents an example of one of his works, accounts market:

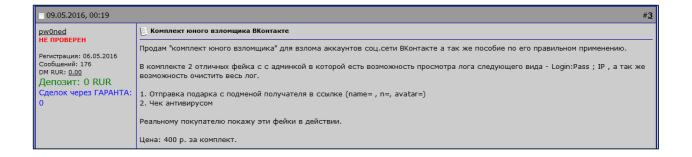




Another vendor that we checked was Vendor8, that offers his services from May 2016. He states that he also has experience working with DB's. In his initial posts he didn't mentioned the pricing, so we contacted him via jabber:

ClearSky: I'm regarding the fakes Vendor8: a set of fakes? ClearSky: fake of bank login... Vendor8: it requires development? ClearSky: at first, fake of an existing page Vendor8: I'm occupied now with development of my panel, will be available in 3-4 days Vendor8: maybe even sooner ClearSky: ok ClearSky: are you duplicating or developing? Vendor8: duplicating, but if there are any errors in the original – I'm trying to develope it from scratch Vendor8: so mostly, my fakes has 100% similarity ClearSky: it includes cleaning, so the site will have less chances to be exposed? Vendor8: if cleaning is removal of unnecessary from the original, so can do it ClearSky: what are the prices? Vendor8: the price is negotiable ClearSky: for example, fake of online.\*\*\*bank.\*\* how much will cost? Vendor8: here is required to steal the user is and password? ClearSky: exactly. Vendor8: it depends on the problems that can arise during the development Vendor8: the price depends on it ClearSky: what is the minimum and the maximum? ClearSky: approximately Vendor8: minimum 1k maximum 2.5 k Vendor8: around this Vendor8: if it is urgent I can do it now ClearSky: in what currency? Vendor8: if there are no complications, the work will be done within 10-20 minutes Vendor8: rubles ClearSky: no...not urgent ClearSky: do you have examples of works that you can present? Vendor8: I don't save the fakes of the clients, but I have enough feedbacks, also I passed the verification in \*\*\*\*/\*\*\*\* (2 forums names – Clearsky) Vendor8: feedbacks in \*\*\*, \*\*\*, \*\*\*\* (4 forums names – Clearsky)

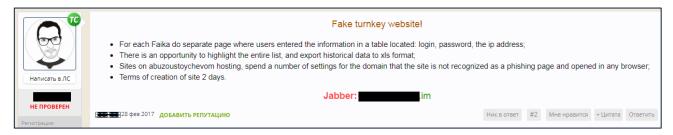
He also offers ready fakes set for VK, leading Russian social network that includes 2 fake pages and admin panel for a really cheap price of about 7\$:



In April 2017, another vendor offered services of developing complicated fakes and landings for almost every theme, all of this is developed based on PHP, with prices that start from 50\$. During a conversation, we have seen that he is ready to lower his priced in exchange for positive feedback in the forums.

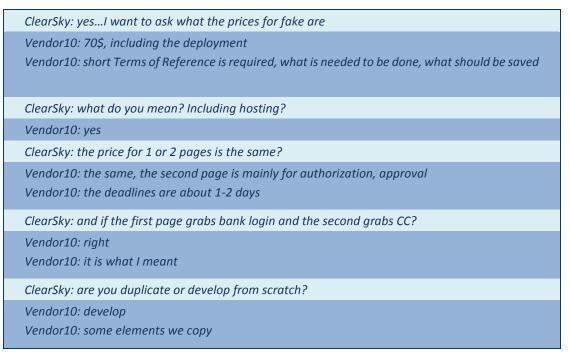
ClearSky: I'm regarding the fakes ClearSky: I want to know the prices for relatively simple ClearSky: like online. \*\*\*bank. \*\* Vendor9: verification of the login/password Vendor9: is required? ClearSky: possible without... Vendor9: with/without deployment? ClearSky: with Vendor9: VPS/Shared? Vendor9: the domain connected? ClearSky: shared Vendor9: the logs are to mail Vendor9: or locally into .txt? ClearSky: yes... will be connected *Vendor9: user agent + time + log/pass* Vendor9: will do for 40\$, if will include feedback) ClearSky: are you duplicating or developing? Vendor9: it is foolish to duplicate – will be exposed immediately Vendor9: in chrome/safari Vendor9: I'm developing myself ClearSky: ok ClearSky: and if I add another page for CC gathering? *Vendor9: show an example* ClearSky: to develop a page with the same bank's template, that will ask to enter cc+exp+cvv Vendor9: after the input of login/password you mean? ClearSky: yes Vendor9: for mobile/desktop? Vendor9: to make a cross platform development? ClearSky: desktop Vendor9: in short, to develop with the same style of the bank, right? ClearSky: yes ClearSky: what will be the price? Vendor9: hmm...it will cost 100\$ Vendor9: I'm ready to divide escrow fee 50/50 ClearSky: do you have work examples? Or feedback? Vendor9: I do have freelance, but I will not show it Vendor9: there is my personal old profile

Another vendor offers his services for creating fakes, and fake templates beginning February 2017.

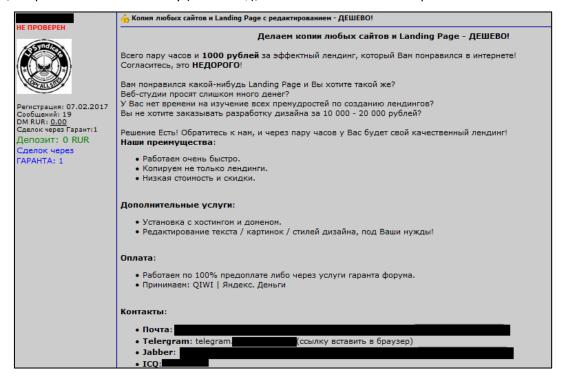


Although this post was published in English, it is obvious that his English level is very low. In addition to specific fakes that can be ordered from him, he also offers ready phishing scam pages for Bank of America, HSBC, PayPal, Gmail (set of all the four for 150\$).

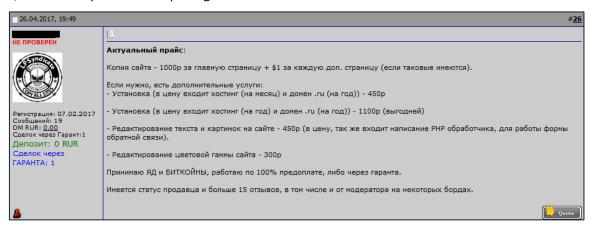
On direct conversation with the vendor, he told us that banking login page fake, and second stage for credit cards grabbing costs about 70\$, when the fake is mostly developed and not duplicated.



From February 2017 another vendor, offers in Russia speaking communities, services of fake and landing pages creation, for price of 1000 rubles only (about 17\$), within several hours as he promises:



In April, the vendor posted exact pricing for his services:

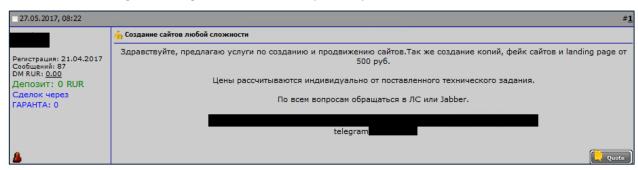


The prices are as following (converted from rubles to dollars):

- Duplication of website 17\$ for the main page + 1\$ for every additional page, if exists
- Deployment of the website (including hosting for a month and domain .ru for year) 7.5\$
- Deployment of the website (including hosting for a year and domain .ru for year) 18\$
- Edition of text and pictures in the website 7.5\$ (the price includes development of PHP scripts for contact forms)
- Edition of color scheme of the website 5 \$

Although his prices are relative very low, he has more than ten very positive feedbacks in different communities.

Another vendor, began offering his services recently, in May 2017:

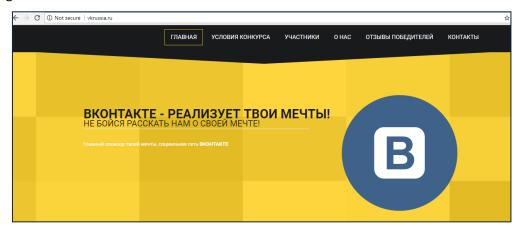


In conversation with the vendor, it seems that he develops the fake websites on relatively average prices, about 45\$ for banking login fake, and about 25\$ for adding another page for credit cards grabbing:

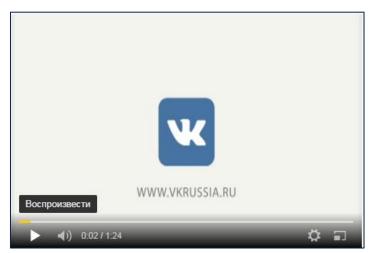


This vendor began offering his services in June 2017, from offering ready fake set for Vkontakte including scam scheme that assists stealing VK accounts; the set includes resembling domain name (vkrussia.ru), the fake website and promotional short movie made for this specific domain name.

The fake page:



The promotional movie:



In parallel, he began offering several other fakes that are ready, and development of new fakes.

He specified the pricing for his ready fakes (converted to dollars):

Fake for Vkontakte (including the domain vkhistory.ru) — 33\$
Fake for Facebook (including the domain fb-story.ru) — 35\$
Fake for Odnoklassniki (including the domain ok-mystory.ru) — 35\$
Fake for Instagram (including the domain theinstagra.ru) — 35\$
Fake for Mail.ru, Gmail.com,Rambler.ru,Yandex.ru — 5\$
Fake for Vk — 7\$

Direct conversation with the vendor helped us to understand more about him and his work. He is a front-end developer, and seems to be a professional one. The most interesting thing from the conversation from his is the fact that he doesn't know how much to ask for his work:

ClearSky: I want to ask about pricing for fakes
ClearSky: fake for bank login? (Not RU)

Vendor13: do you have terms of reference?

Vendor13: If it just a fake of login page, so I think, it will not be a problem

ClearSky: online.\*\*\*bank.\*\*
ClearSky: like this for example

Vendor13: Fake of this page? You need to save entered usr id and pass, right? What should

happen after the details are entered? Where should the victim be forwarded?

Vendor13: It is possible to forward the victim to the main page of the original

ClearSky: yes fake...and to forward to the original

ClearSky: what will be the price?

Vendor13: I don't have an idea

ClearSky: are you duplicating or developing from scratch?

Vendor13: mostly, I download via wget, and adjust it to the original

Vendor13: Is there any difference whether the page is developed from scratch or duplicated, if

the result in both will be the same?

ClearSky: the duplicated are in many cases exposed quickly

ClearSky: and are being blocked in Chrome

Vendor13: Truly, I'm not aware of this

Vendor13: Previously, we have used intermediate domains between the fake and the phishing

mail

Vendor13: and after some time just changing the intermediate domain

ClearSky: у вас есть примеры работ?

Vendor13: Only above- mentioned autosportkbr.ru/facebook

autosportkbr.ru/odnoklassniki

ClearSky: so what will be the price for online.\*\*\*bank.co.\*\*\*?

Vendor13: Don't have an idea. The same 2000 are acceptable to you?

ClearSky: and if I add to the fake another page (second stage) for CC +CVV... how it changes the

price?

ClearSky: i.e. page that doesn't exist in original

ClearSky: you need to develop this page almost from scratch, similar to the design of first page

Vendor13: Do you have some preferences on the design?

Vendor13: to show 404, or something else?

ClearSky: after the second page? Possible 404

Vendor13: See, so it looks like – in the beginning pass and login is entered, afterwards they are

forwarded to page of CC + CVV grabbing and then 404, right?

ClearSky: yes

Vendor13: 3000 suits you?

ClearSky: for everything? Think yes

ClearSky: you are a developer? Or just make basic fakes?

Vendor13: I mostly work only on front end

Vendor14: developing

Another vendor began offering the services on April 2017, as all over worker who offered variety of services, including fakes that consists one page, as he posted for 25\$. He mentions that he has knowledge in HTML and in CSS. Apart of fakes, he offers his services working with VPS linux, installation of CMS, Joomla and OpenCart and registration in any services needed. It seems that this vendor is an example of all over worker who has basic knowledge in many areas but is not a real specialist in any area.

ClearSky: I'm regarding the fakes

Vendor14: talk

ClearSky: I want to know the pricing for relatively simple fake
ClearSky: for bank login

Vendor14: beginning at 30\$

Vendor14: which country?

ClearSky: online.\*\*\*bank.\*\*

Vendor14: what data to grab?

ClearSky: user id + pass

Vendor14: it will cost 50

ClearSky: are you duplicating or developing?

There is another verified vendor, Vendor15 who introduced his services on January 2017, and he is active in several Russian speaking communities, but also posts in English – to attract English speaking clients (spelling mistakes are in the source).

The main services he provides is complete impersonation of corporate websites:

Dear Friends I'm happy to introduce the developement service of corporate design, drop projects, web shops, fakes, landing pages, websites and etc.

Current prices (turnkey solution):

Drop project for cashing - \$1000 Drop Project for stuff - \$800 Development time range 7-9 days.

What do you get:

Complete website with modern hq corporate design, Content Management System (CMS) of your website Employment agreement, application form and other required documents.

Full step by step instruction, which allows you to execute a correspondence with "hired employees" without fluent knowledge of english language.

Company legend, hosting and domain.

English speakers always welcomed. Payment on Bitcoin or webmoney

As well, he develops web shops, mostly for illegal goods selling (servers, credit cards, banking accounts, etc.) and imitates fake company activity and reputation in google (kind of SEO).