

## Online MetaTrader VPS

### HTML 5 viewer to MetaTrader Desktop Application

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#### *Executive Summary*

VPS is basically a HTML5 VNC portal. We allow users to see MetaTrader Desktop application hosted on Linux servers into browser through VNC protocol. We are using a HTML5 VNC client which starts a proxy to the vnc server that we want to connect with.

We have used VPS API to authenticate user. This API is also used for some other purposes like gathering information about VPS server for a particular user, setting the screen size and managing Expert Advisers and other packages installed on the MetaTrader Application. We have also implemented a labeling system which extracts labels from API and renders them.

There are many retailers in this system and every retailer can customize the look and feel of the system. We have implemented interface to render YouTube channels, Twitter feed according to the retailers. Retailer can customize template colors and logo based on the retailer template.

#### *Client Need*

The client wanted a software system to remotely manage, control, and troubleshoot issues on machines within a LAN. He wanted a platform independent solution that would be easy to maintain and add feature updates.

#### *Our Solution*

We proposed HTML5 based software-system that can render VNC desktop into the browser using HTML5 canvas and websockets. HTML5 was used so that it works on iOS and other mobile devices that do not support Flash or Java. We implemented customizations to an open source VNC application called **noVNC** for this purpose.

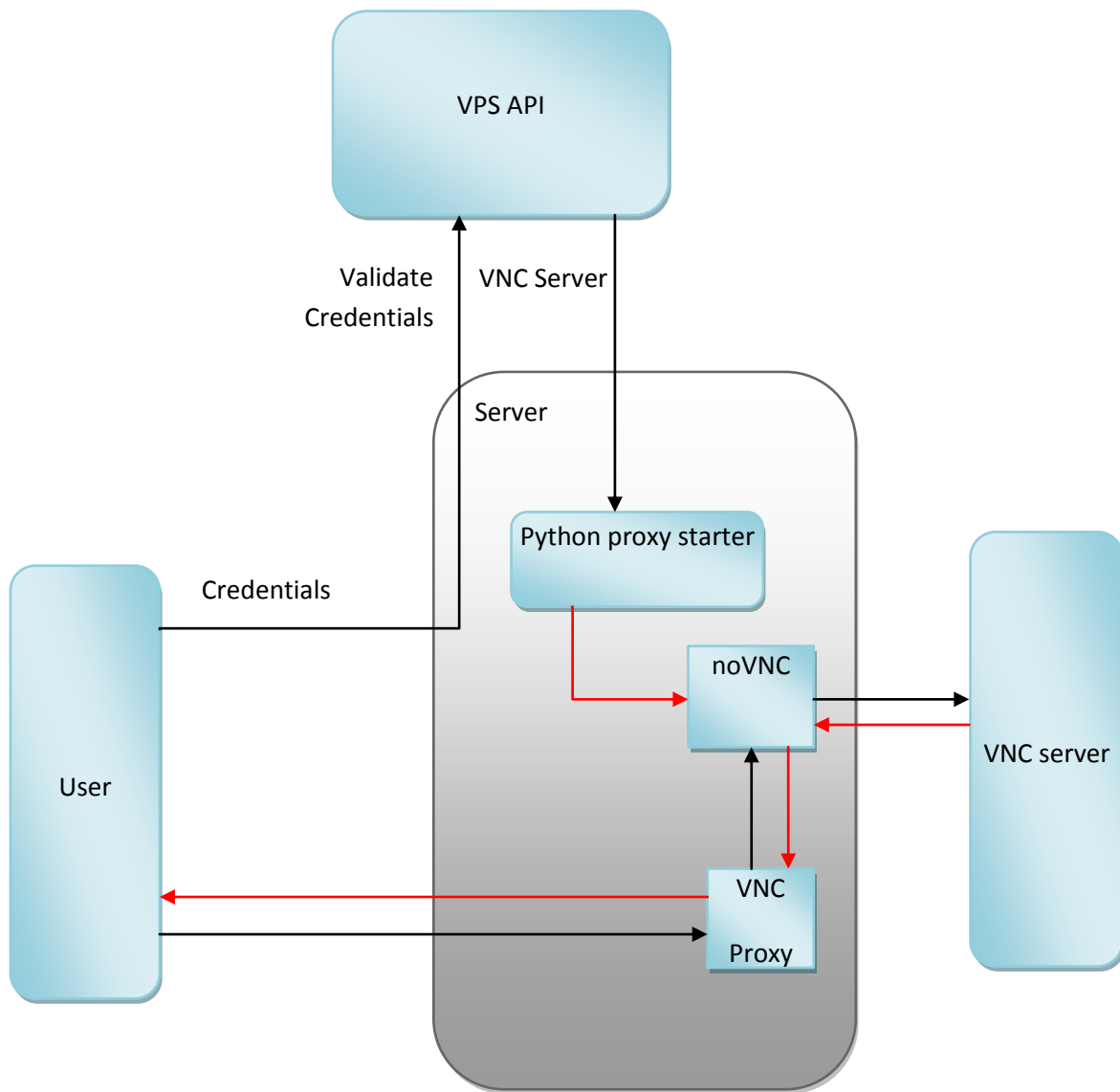
#### *About our Client*

**Client** Custom software development company | **Location** Tortola, Virgin Islands, Britain | **Industry** Custom Software Development

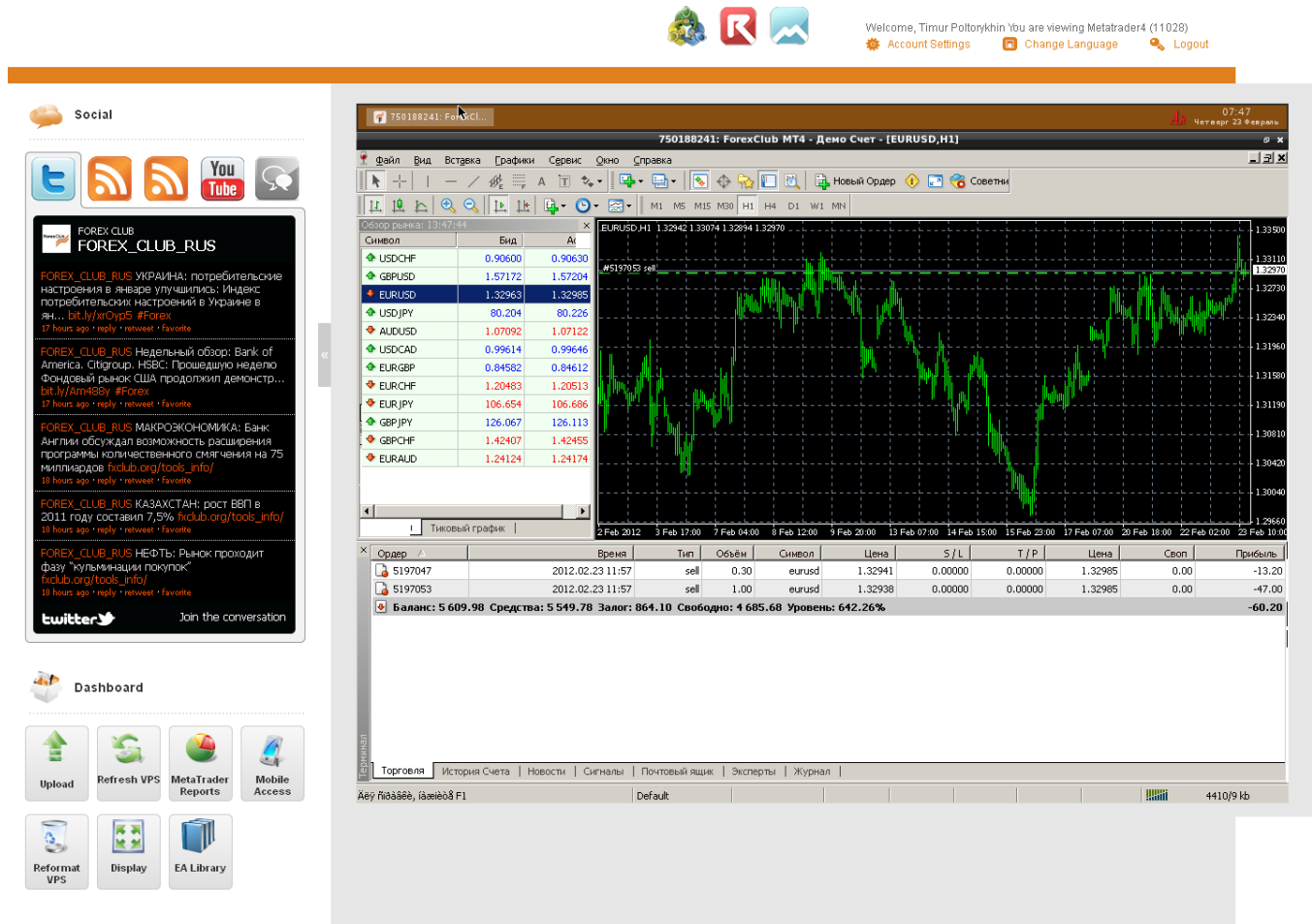
#### *Technologies*

PHP, Python, noVNC (the HTML5 VNC client), websockify (HTML5 websockets handler) and jQuery.

*Architecture of the application Diagram*



Home page of the application:



The screenshot displays the application's home page, which is divided into several sections:

- Social:** A section with social media icons (Twitter, RSS, YouTube) and a feed of posts from 'FOREX CLUB FOREX CLUB\_RUS'. The posts discuss market news, such as consumer sentiment in Ukraine and the Bank of America's outlook.
- Dashboard:** A central area with icons for 'Upload', 'Refresh VPS', 'MetaTrader Reports', 'Mobile Access', 'Reformat VPS', 'Display', and 'EA Library'.
- Market Data:** A table showing exchange rates for various currency pairs:
 

Символ	Бид	Аск
USDCHF	0.90600	0.90630
GBPUSD	1.57172	1.57204
EURUSD	1.32963	1.32985
USDJPY	80.204	80.226
AUDUSD	1.07092	1.07122
USDCAD	0.99614	0.99646
EURGBP	0.84582	0.84612
EURCHF	1.20483	1.20513
EURJPY	106.654	106.686
GBPJPY	126.067	126.113
GBPCHF	1.42407	1.42455
EURAUD	1.24124	1.24174
- Trading Interface:** A MetaTrader4 window showing a candlestick chart for EURUSD on an H1 timeframe. Below the chart is an order book and account summary:
 

Время	Тип	Объем	Символ	Цена	S / L	T / P	Цена	Своп	Прибыль
2012.02.23 11:57	sell	0.30	eurusd	1.32941	0.00000	0.00000	1.32985	0.00	-13.20
2012.02.23 11:57	sell	1.00	eurusd	1.32938	0.00000	0.00000	1.32985	0.00	-47.00

 Account Summary:
 

Баланс:	5 609.98
Средства:	5 549.78
Залог:	864.10
Свободно:	4 685.68
Уровень:	642.26%

### Future relationship

The client was pleased with Mindfire's effort and reckoned that they were happy to have discovered a professional offshore IT unit. We shall continue to be the service provider for the next versions of the client's product. They have not only allocated the support and maintenance work of the current system to Mindfire but have also chosen us for future customization work.