(./index.php)

Mine Primecoin on Azure

Introduction

This tutorial will teach you step-by-step how to mine Primecoin on the Azure cloud computing platform. Azure offers a one month 150 dollar trial for new users. A credit card is required for the trial and after that for buying pay-as-you-go server time.

Mining requirements

(http://www.windowsazure.com/en-us/pricing/free-trial/)

Registering an account

The first thing that you'll need is an account at the Azure cloud hosting platform. If you have not used Azure before you can register for the trial here (http://www.windowsazure.com/en-us/pricing/free-trial/). Otherwise you can register for a normal account here (http://www.windowsazure.com/en-us/pricing/purchase-options/). There are multiple payment options, with discounts for monthly payment plans. However for now the best start is either the trial or to pay-as-you-go for the servers.

Local software

- Primecoin Wallet Software (http://primecoin.io/downloads.php) For generating a Primecoin adress and holding funds.

- Putty (http://the.earth.li/~sgtatham/putty/latest/x86/putty-0.63-installer.exe) SSH software for Windows (link to installer)

Set-up a server

Introduction

Azure as a cloud hosting network offers multiple operating system types and versions for its virtual servers. Setting up a miner on a Windows server, with a graphical user interface, is easier. However the Windows instances, as the servers are called, are more expensive per day and less powerful for mining Primecoin. The best miners for Primecoin are the powerful multi-core instances with a Linux distributions. Login first and you will see a screen like below. All servers that you use are in the central portion of the screen, or you can access them were the blue box is. As we have not configured a server yet, we will hit the button in the red box.


Configuration

As mining Primecoin is computationally heavy (i.e. it uses a lot of processing power) we will pick a compute instance. We will need a virtual machine, that we will set-up on our own. Give it a unique name, this is the name of the server. You will need this to access the server. Now pick Ubuntu 14.04 LTS as the server operating system.

As the free trial limits us to one month usage and 20 cores we will pick an eight core server. (My configuration was two eight core servers and one four core server). Finally pick a good password. Now click "Create a virtual machine".
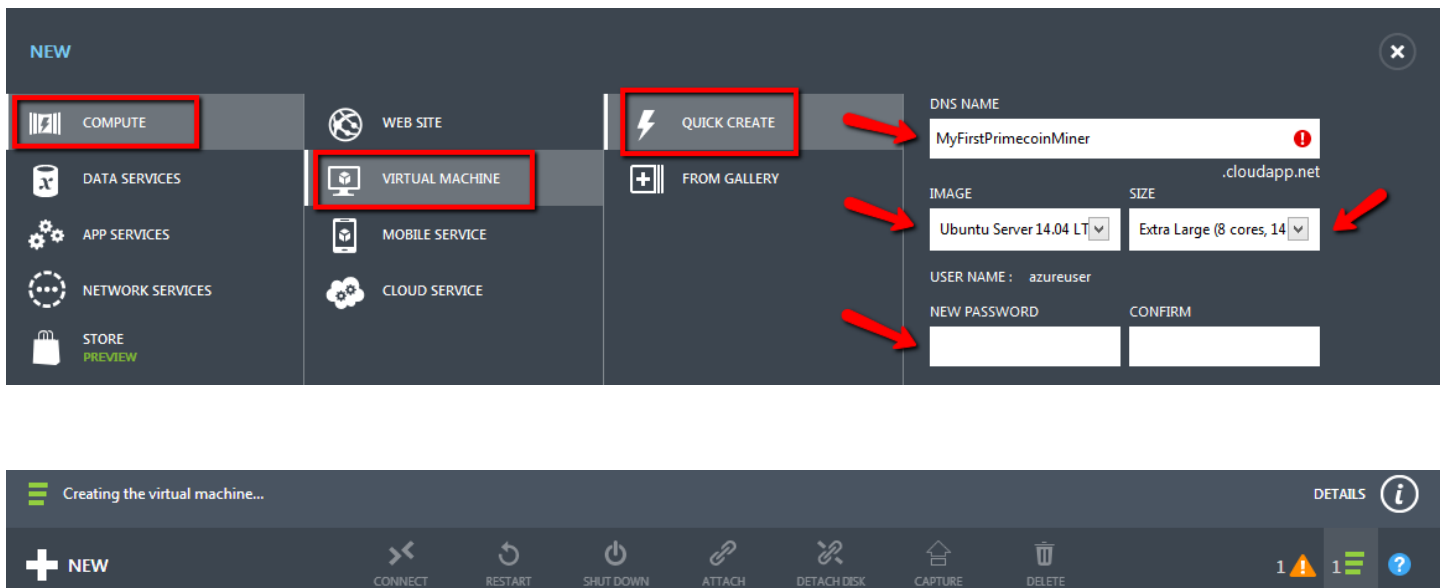
As Azure creates your server you'll see a message like the image above this text. We'll now need an SSH client to connect to the server:

Windows users:

- **Install Putty**
- **Start Putty and enter the server adress like the image below, and click Open**
- **Click Yes on the Security Error**
- **The text window will ask you for a username, enter: azureuser**
- **Enter the password you set for the server and hit enter**
- **After a few seconds you will see text like the image below**
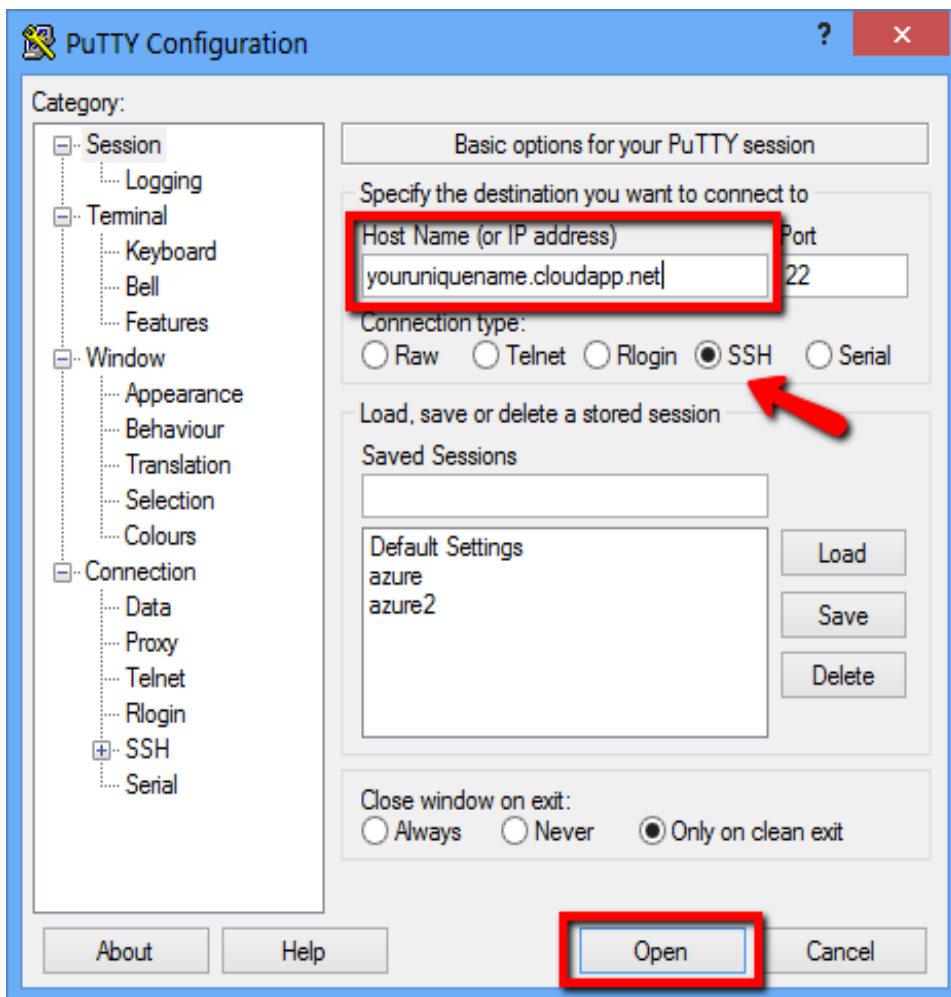
Mac and Linux users:

- **Open Terminal.app located in /Applications/Utilities/ or a terminal**

- **Enter: ssh azureuser@UNIQUESERVERNAME.cloudapp.net**

- **Enter: azureuser**

- **Enter your password**

- **After a few seconds you will see text like the image below**

```
login as: azureuser
azureuser@           .cloudapp.net's password:

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

azureuser@           :~$
```

Setting-up the miner

Now copy over these commands. You can paste in Putty by right-clicking.

```
apt-get update && apt-get install -y yasm  git make g++ build-essential libminiupnpc-dev
libboost-all-dev libdb++-dev libgmp-dev libssl-dev dos2unix && git clone
https://github.com/thbaumbach/primecoin && cd ~/primecoin/src && make -f makefile.unix
```

The command above will take several minutes to complete. When the command line shows the "#" symbol again you can continue. The next step is to set-up and start your miner. We'll use the Beeeeer.org pool, which requires no set-up. Replace the "your xpm address here" in the command with your real address and copy the command to the server and press enter. Adjust the -genproclimit flag with the number of 's you ordered. If you picked an eight core server edit it as "-genproclimit=8". You don't need to change the password field.

```
screen ./primeminer -poolip=54.200.248.75 -poolport=1337 -pooluser="your xpm adress here" -
poolpassword=XXXXX -genproclimit=8
```

Congratulations, you are now mining! The screen output should look like the picture below. The mining speed is accented in the red box. The speed displayed below is not the speed you will get. This will be much higher.

```
*************************************************
*** Xolominer - Primecoin Pool Miner v0.8 RC2
*** by xolokram/TB - www.beeeeer.org - glhf
***
*** thx to Sunny King & mikaelh
*** press CTRL+C to exit
*************************************************
AJhA1PGbNM94ZmsJvVVM5FfbE9SdxiMzgd
GeneratePrimeTable() : setting nSieveExtensions = 9, nSievePercentage = 10, nSieveSize = 1000000
GeneratePrimeTable() : prime table [1, 1000000] generated with 78498 primes
spawning 1 worker thread(s)
connecting to 54.200.248.75:1337
[WORKER0] Hello, World!
[WORKER0] GoGoGo!
[MASTER] work received
PrimecoinMiner started
[MASTER] work received
[STATS] 2014-02-01 12:38:31 |   329 primes/s, 5239 tests/s,   60 5-chains/h, 0.011 chains/d
[MASTER] work received
[STATS] 2014-02-01 12:39:31 |   340 primes/s, 5507 tests/s,   60 5-chains/h, 0.011 chains/d
[MASTER] work received
```

You can close the Putty or command line window now. When reconnecting with the server, type this to see the mining output again.

```
screen -DDR
```

Payout and stats

The pool will automatically pay-out to the used address if you reach 3.0 XPM. You can run multiple miners on the same address to speed up the mining process. Check your current balance on the pool by filling in your address in this url.

```
http://beeeeer.org/user/*copy your address here*
```

Free $10 Credit

We recommend Digital Ocean (https://www.digitalocean.com/?refcode=b42d05f9603c) for cloud mining (mine.php). Here are some promocodes for $10+ credit.

2014SSD (https://www.digitalocean.com/?refcode=b42d05f9603c)
OMGSSD10 (https://www.digitalocean.com/?refcode=b42d05f9603c)
SSDCHP20 (https://www.digitalocean.com/?refcode=b42d05f9603c)
GIT10 (https://www.digitalocean.com/?refcode=b42d05f9603c)

Links

Wiki (https://github.com/primecoin/primecoin/wiki/)

Forums (http://www.peercointalk.org/)

Download Wallet (downloads.php)

Exchange Markets (resources.php)

About (about.php)

Resources (resources.php)

Questions?

Join the forums (http://www.peercointalk.org/) and ask your question you might have. The community of Primecoin will help you out.

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Downloads (downloads.php)

(https://www.facebook.com/pages/Primecoin-Cryptocurrency/199526993546179) (https://twitter.com/primecoin)