Mine Primecoin on Rackspace

Introduction

This tutorial will teach you step-by-step how to mine Primecoin on the Rackspace cloud computing platform. Rackspace offers a six month 50 dollar per month trial (300 dollar total!) for new users. A credit card is required for the trial and after that for buying pay-as-you-go server time. You will be called to verify the information you entered and to test if you apply for the trial. As Primecoin mining has scientific benefits you can tell them you'll use the server for scientific data crunching.

Mining requirements

(http://developer.rackspace.com/devtrial/)

Registering an account

The first thing that you'll need is an account at the Rackspace cloud hosting platform. If you have not used Rackspace before you can register for the trial here (http://developer.rackspace.com/devtrial/). Otherwise you can register for a normal account here (https://cart.rackspace.com/cloud/). Rackspace is known to ban miners from time to time so do not charge your account with too much credit.

For the trail, be sure to click the "Infrastructure Service Level" option on the registration screen, or you will be billed for higher-tier support. The promo code is entered automatically. The green check mark shows us that the promo code is accepted.

		Managed Service Level	Infrastructure Service Level
Dedicated Account Team	❓	✔	
Proactive Monitoring Response & Resolution 24x7x365 (URL, Content, Port, Ping)	❓	✔	
Server OS & Apps Infrastructure Support (incl. updates/patches)	❓	✔	
100% Network & Power Uptime Guarantee		✔	✔
Server Provisioning On-Demand		✔	✔
Fanatical Support 24x7x365 (Chat/Phone/Ticket)		✔	✔
		◯	◉

Promo code `US_DevTierDiscountDeal`

✅ **Your promo code has been accepted!**

Local software requirements:

• **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

As you login to the Rackspace control panel you see a very nice overview of the services they provide. Servers you create will be displayed here and you can manage them here as well. We'll need a server of course first, so click on Create Server.
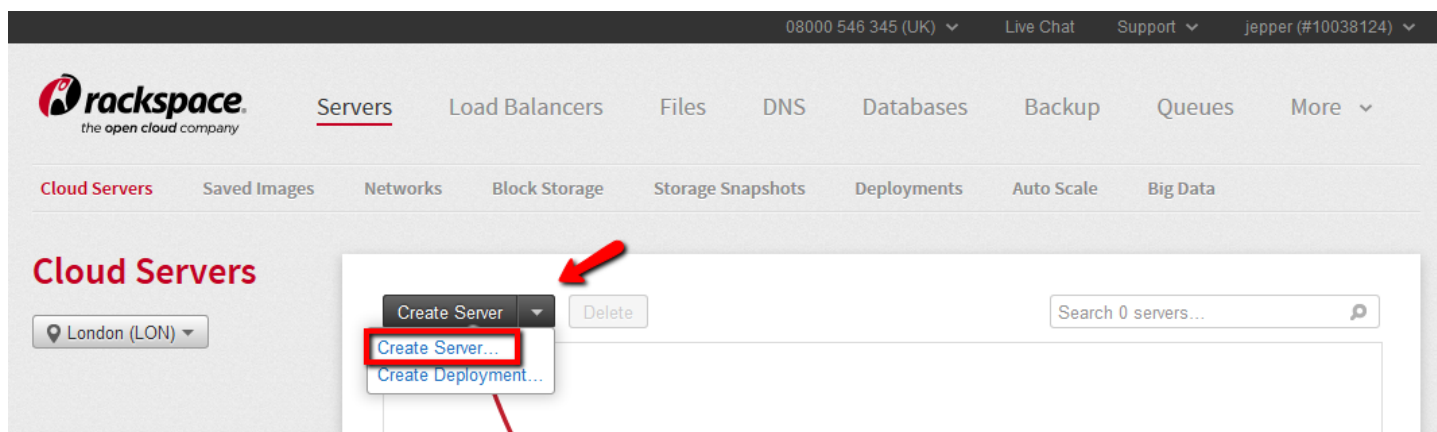
Configuration

First we have to pick a name for the server. Pick something unique. Now select Ubuntu 13.10 as the operating system.

Identity

Server Name   MyFirstPrimecoinMiner

Region   London (LON) ▾   ⑦

Image

Image Type	Operating System ▲	Version ▲
🐧 Linux ▸	🅰 Arch ▸	13.10 (Saucy Salamander)
⊞ Windows ▸	🌀 CentOS ▸	13.10 (Saucy Salamander) (PVHVM)
☁ Saved ▸	◎ Debian ▸	12.10 (Quantal Quetzal)
◐ Appliances ▸	🎩 Fedora ▸	12.10 (Quantal Quetzal) (PVHVM)
	😈 FreeBSD ▸	12.04 LTS (Precise Pangolin)
	🐾 Gentoo ▸	12.04 LTS (Precise Pangolin) (PVHVM)
	◎ OpenSUSE ▸	10.04 LTS (Lucid Lynx)
	🎩 Red Hat Enterprise Linux ▸	
	❄ Scientific Linux ▸	
	⬤ Ubuntu ▸	

As Primecoin mining requires a lot of CPU power, we'll choose a CPU heavy configuration, that is relatively cheap compared to other configurations. This so we can save on RAM and storage availability costs. The price here is displayed in your local currency. Now click create server at the bottom of the page.

Flavor Class	Flavor	Description

Performance 1

Performance 2

Standard

8 GB Performance NEW

CPU	8 vCPUs
RAM	8 GB
System Disk	40 GB
Data Disk	80 GB
Network	1.6 Gb / s
Disk I/O	Better
Price £	£0.24 / hr

Best suited for web servers, batch processing, network appliances, small databases, and most general-purpose computing workloads. Storage is high-performance, RAID 10-protected SSD.

Rackspace will now set-up and start your server. You will see a password pop-up like the one below. Write the password down on a piece of paper, we'll need it in a few minutes.

Root Admin Password ✕

Your server will be online in a few minutes.

Please copy this password:

⚠ **Warning**: You will not be able to view this password again.

Dismiss Password

The page you'll see now displays the specifics of the server you just started. The network specifics are displayed at the bottom of the page. Copy the IPv4 ip adress.

Connect to the server

Windows users:

- **Install Putty**

- **Start Putty and paste the server ip adress in the connection field like the image below, and click Open**

- **Click Yes on the Security Error**

- **The text window will ask you for a username, enter: root**

- **Enter the password you wrote down and hit enter**

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

Mac and Linux users:

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

- **Enter: ssh root@ *paste/write down your server ip here***

- **Enter: root**

- **Enter the password you wrote down and hit enter**

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

```
login as: root
root@          '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.

root@          ::~#
```

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.