



【成都】18.08.18 OSC源创会



iExec

基于区块链的分布式云计算

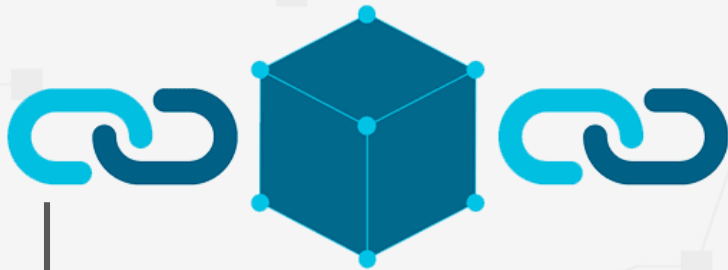
如何使用iExec链下算力 高效运行以太坊智能合约

30分钟



痛点?

区块链智能合约



=

贵、慢



复杂计算




iExec 算力池 (链下)



开发者工具🔧

iExec SDK

 iExecBlockchainComputing / **iexec-sdk**

 Unwatch ▾

39

★ Unstar

378

Fork

14

安装命令行程序：

npm -g install iexec

或者

docker pull iexechub/iexec-sdk



部署你的APP



1. dockerize it!
链下



<https://hub.docker.com>



Search

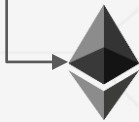
2. deploy it!
链上



iexec.json

```
"app": {  
  "name": "my app name",  
  "price": 0,  
  "params": {  
    "type": "DOCKER",  
    "envvars": "XWDOCKERIMAGE=myorg/myapp"  
  }  
},
```

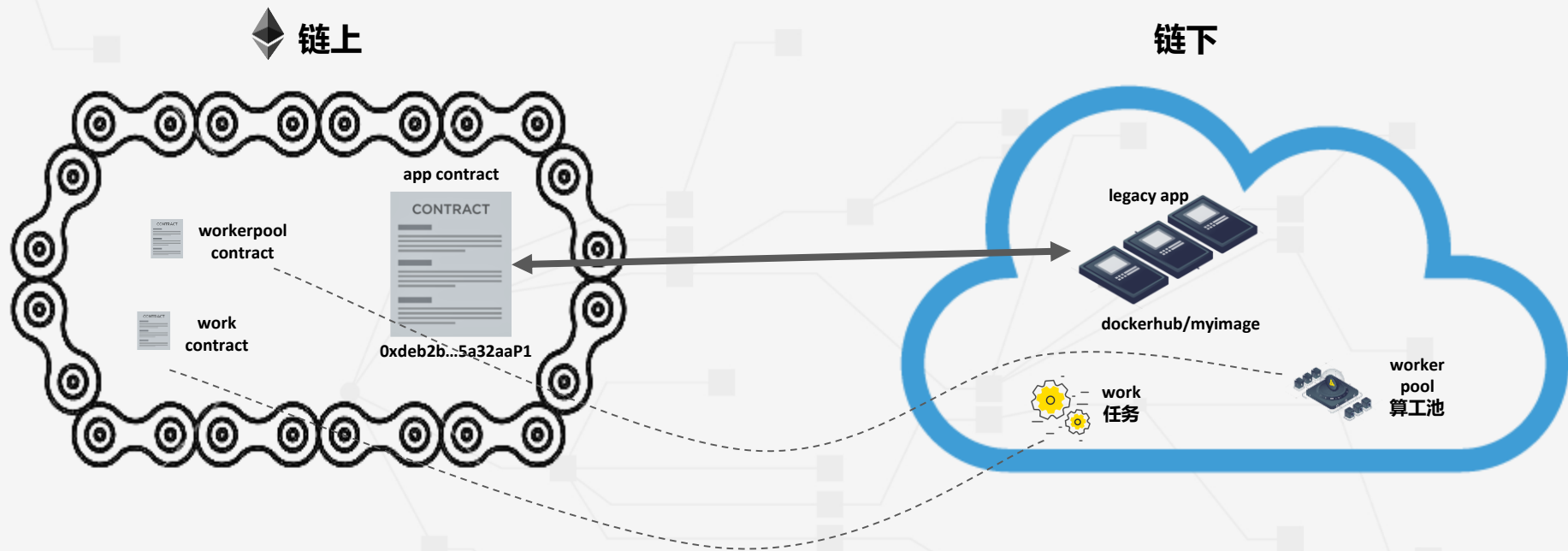
```
$ iexec app deploy --chain kovan
```



0xdeb2b....5a32aaP1

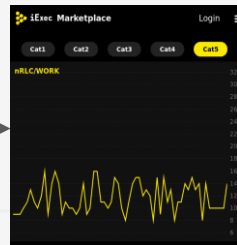
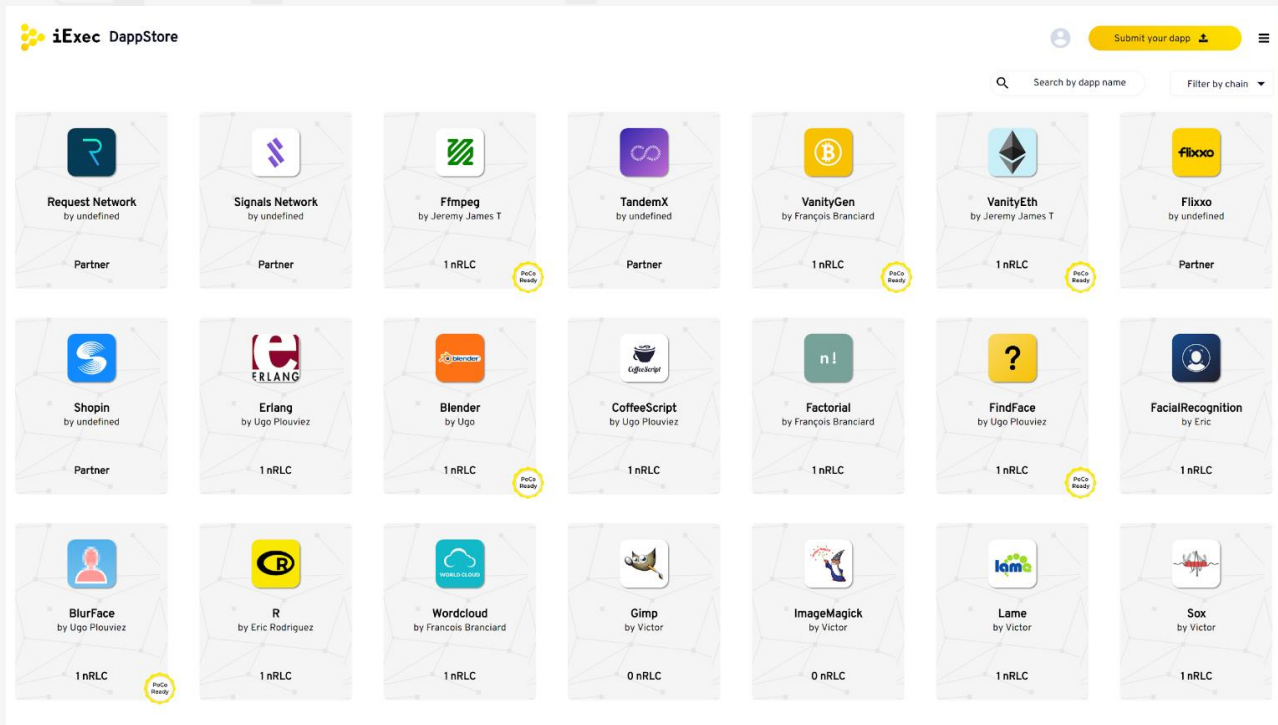


链上 / 链下 资源对应



Pro Tip: 怎么上iExec Dapp Store

<https://dapps.iex.ec>



在这儿提条你的App:

<https://github.com/iExecBlockchainComputing/iexec-dapps-registry>



买低价计算资源

<https://market.iex.ec>



Blender
by Ugo

Submit Work

Addresses: #kovan

1 nRLC Blender is a professional, free a software toolset used for creatr printed models, interactive 3D e features include 3D modeling, U' editing, rigging and skinning, simulation, soft body simulator camera tracking, rendering, compositing. It also features an i

Software license MIT

Created 2/1/2018

iExec Marketplace

Fit order submitted. Waiting for transaction 0x44317a14831805d6b02020d296d329d9997d77a516869b1a371695e90 to be processed

iExec balance 210 nRLC
wallet balance 750 nRLC

Cat1 Cat2 **Cat3** Cat4 Cat5

nRLCWORK

ID	Price	Pool	Volume
430	13	0xb95e21DC...	1
436	13	0x48992959...	1
458	13	0x851f65b27...	1
402	14	0x851f65b27...	1
429	14	0xb95e21DC...	1
457	14	0xf1eD3013f...	1
406	15	0xf1eD3013f...	1
407	15	0x851f65b27...	1
424	15	0xb95e21DC...	1
476	15	0x82190e18f...	1
447	16	0x48992959...	1

Recent Trades

ID	Price	Time	Pool
433	11	3:12:48 PM	0xb95e21DC...
462	9	10:27:48 AM	0x82190e18f...
461	9	5:11:20 AM	0x851f65b27...
485	10	9:04:48 PM	0x48992959...
460	9	10:02:20 AM	0x851f65b27...
443	9	6:16:32 AM	0x82190e18f...
439	10	2:39:16 PM	0x82190e18f...
403	13	2:27:48 PM	0x851f65b27...
451	12	11:17:56 AM	0xf1eD3013f...
455	16	11:17:40 AM	0x48992959...
431	9	11:17:04 AM	0x851f65b27...
449	8	11:17:04 AM	0x851f65b27...
412	9	8:22:44 PM	0x48992959...
420	13	2:31:36 PM	0xb95e21DC...
422	13	2:22:44 PM	0xb95e21DC...
405	12	10:12:16 PM	0xf1eD3013f...
411	11	10:06:12 PM	0x82190e18f...
413	10	10:00:20 PM	0x82190e18f...
384	8	9:51:32 PM	0x82190e18f...
399	13	9:35:20 PM	0xb95e21DC...

My Trades

ID	Price	Time	Pool
430	13	7/31/2018, 11:06:19 AM	0xb95e21dca825e7047b25f1f...
433	11	7/16/2018, 3:12:48 PM	0xb95e21DCa825E7047b252...
462	9	7/8/2018, 10:27:48 AM	0x82190e18f7cE7CB8d3912B...
461	9	7/8/2018, 5:11:20 AM	0x851f65b27030Ac9634BF51...
460	9	7/7/2018, 10:02:20 AM	0x851f65b27030Ac9634BF51...
443	9	7/7/2018, 6:16:32 AM	0x82190e18f7cE7CB8d3912B...

Buy / Sell

Order ID: * Pool Address: *

Dapp Address: * Volume: *

Work Params: * Price: *

Buy **Sell**

iExec Explorer

Search Tabbish

Last work orders

Time	Tabbish	Work	Dapp	Pool
an hour a...	0x851f65b27030Ac9634BF51...	0x01CA7F33B5...	0x82190e18f...	0x851f65b27...
10 hours ...	0x48992959...	0x48992959...	0x48992959...	0x48992959...
10 hours ...	0x48992959...	0x48992959...	0x48992959...	0x48992959...
2 days ago	0x48992959...	0x48992959...	0x48992959...	0x48992959...
2 days ago	0x48992959...	0x48992959...	0x48992959...	0x48992959...
2 days ago	0x48992959...	0x48992959...	0x48992959...	0x48992959...
2 days ago	0x48992959...	0x48992959...	0x48992959...	0x48992959...
5 days ago	0x48992959...	0x48992959...	0x48992959...	0x48992959...
6 days ago	0x48992959...	0x48992959...	0x48992959...	0x48992959...
6 days ago	0x48992959...	0x48992959...	0x48992959...	0x48992959...
6 days ago	0x48992959...	0x48992959...	0x48992959...	0x48992959...



= Order ID + Dapp Address + Work Params +



浏览iExec平台状态



<https://explorer.iex.ec>

iExec Explorer

Search txHash

Recent Trades

ID	Price	Time	Pool
520	14	2:44:56 PM	0x851f65b270...
512	10	6:11:00 AM	0x851f65b270...
511	10	3:36:33 PM	0x851f65b270...
510	10	3:36:33 PM	0x851f65b270...
509	10	3:23:20 PM	0x851f65b270...
508	10	2:49:28 PM	0x851f65b270...
498	14	2:56:40 PM	0x851f65b270...
504	8	8:49:48 AM	0x82190e18f7...
497	14	5:46:12 AM	0x82190e18f7...
502	13	5:38:36 AM	0x851f65b270...
495	15	1:28:44 PM	0x851f65b270...
493	13	10:56:19 AM	0x851f65b270...
489	14	10:18:00 AM	0x851f65b270...
490	11	9:59:20 PM	0x82190e18f7...

Open the work in the explorer

Last work orders

Time	TxHash	Work	Dapp	Pool	Price	Status
8 days ago	0x94afce0d3...	0xa97472ED3...	0xf53d67d574...	0x851f65b270...	1 nRLC	COMPLETED
8 days ago	0x7de4da5c...	0x64111DAB0...	0xc6b262f3...	0x851f65b270...	0 nRLC	COMPLETED
15 days ago	0x4be9da26c...	0x726f422609...	0xb72f2f2a2a...	0x82190e18f7...	1 nRLC	COMPLETED
15 days ago	0x7d0af025d...	0x1C2b19D4...	0xA86f80a1...	0x85621Dca...	1 nRLC	STARTED
17 days ago	0x767771bed...	0xd62E56e56...	0x0F0921a11...	0x82190e18f7...	1 nRLC	COMPLETED
19 days ago	0x833bdf9d4...	0x30058005D...	0x0F0921a11...	0x82190e18f7...	1 nRLC	STARTED
22 days ago	0x8c3b6b2a8...	0xe1EAcab9...	0x715a2a767...	0x851f65b270...	1 nRLC	COMPLETED
22 days ago	0x8bcb3ec6ab...	0x1964A13D...	0x95513Bf06...	0x851f65b270...	1 nRLC	COMPLETED
22 days ago	0x467440d598...	0x631892798...	0x20A855c96...	0x82190e18f7...	1 nRLC	COMPLETED
23 days ago	0xa70521945...	0x3e916c8C5...	0xf53d67d574...	0x82190e18f7...	1 nRLC	COMPLETED
23 days ago	0x6705a0e62...	0xC8B71C0889...	0xA6b3404Aa...	0x82190e18f7...	1 nRLC	COMPLETED
23 days ago	0xc5a5b2b629...	0xC50E46e19...	0x8229ab4Fa...	0x82190e18f7...	1 nRLC	COMPLETED
23 days ago	0xb7212d337...	0xcac3b70646...	0xf53d67d574...	0x82190e18f7...	1 nRLC	COMPLETED
23 days ago	0xa52913053...	0xd5FEdf1d50...	0x47F8b3dF8...	0x851f65b270...	1 nRLC	COMPLETED
23 days ago	0x4b4a463a8...	0xd208Df67b7...	0xf53d67d574...	0x82190e18f7...	1 nRLC	COMPLETED
24 days ago	0x78dace2...	0x9C4848109...	0xf53d67d574...	0x82190e18f7...	1 nRLC	COMPLETED
24 days ago	0x8c500cd14...	0xb07C72C9f...	0xf53d67d574...	0x82190e18f7...	1 nRLC	COMPLETED
24 days ago	0x3837678a...	0x9376A1Eec...	0xf53d67d574...	0x82190e18f7...	1 nRLC	COMPLETED
24 days ago	0x79a0591de...	0x6e9BD142C...	0xf53d67d574...	0x851f65b270...	1 nRLC	COMPLETED
24 days ago	0xeb4689b7...	0x8E26B8de4...	0xA86f80a1...	0x82190e18f7...	1 nRLC	COMPLETED

Last dapp deploys

Time	TxHash	Dapp	Provider	Name	Price
8 days ago	0x8c4324ad...	0x783912435...	0x8d31305E9...	my-dapp	1 nRLC
8 days ago	0x7b44493b0...	0xd6b2b22f3...	0xC3b24310...	option pricing	0 nRLC
13 days ago	0xd1962228a...	0x66407BD08...	0x16b912D3f...	happy-life	1 nRLC
13 days ago	0xd620662cb...	0x963643080...	0x16b912D3f...	happy-life	100 nRLC
15 days ago	0xb5b294b8d...	0xb72f2f2a2...	0x1Fa802066...	Blender	1 nRLC
22 days ago	0x2e8eade9...	0xd6b13419b...	0xFABBC732...	my-dapp	1 nRLC
22 days ago	0xe7d7af0023...	0x715a2a767...	0x16c3E8eA...	my-dapp	1 nRLC
22 days ago	0x532357830...	0x95513Bf06...	0x4e3F8f736...	random integ...	1 nRLC
23 days ago	0x72a7065cc...	0x8229ab4Fa...	0x4e3F8f736...	random integ...	1 nRLC
23 days ago	0xd376b16a...	0x47F8b3dF8...	0xD09E49708...	Shenzhen Wo...	1 nRLC
24 days ago	0x8af908bbe...	0x2d3791E7f...	0x2D7D9175...	my-dapp	5 nRLC
24 days ago	0x217a90041...	0x678000642...	0x2D7D9175...	my-dapp	5 nRLC
24 days ago	0xd3d3128e1...	0x454a574b1...	0xD09E49708...	Shenzhen Wo...	1 nRLC
25 days ago	0xd4dc9250c...	0x4b8820AA...	0x4B8565496...	my-dapp	1 nRLC
a month ago	0x4a0ca8a8d...	0x60a400955...	0x1DF442A5...	my-dapp	1 nRLC
a month ago	0xaec4452b2...	0x245D1505...	0xdDdF934f...	my-dapp	7 nRLC
a month ago	0x23d721dc...	0xe8a8dc02...	0xdDdF934f...	my-dapp	7 nRLC
a month ago	0x1776117b...	0xdff0532DC...	0xE51A894b4...	FirstTry	1 nRLC
a month ago	0x116eb44c5...	0xf53d67d574...	0x6CABc2Ed...	WebscreensO...	1 nRLC
a month ago	0x5e7976e7e...	0x3963BDa97...	0x89D120A45...	Fltpeg	1 nRLC

Last workerpool deploys

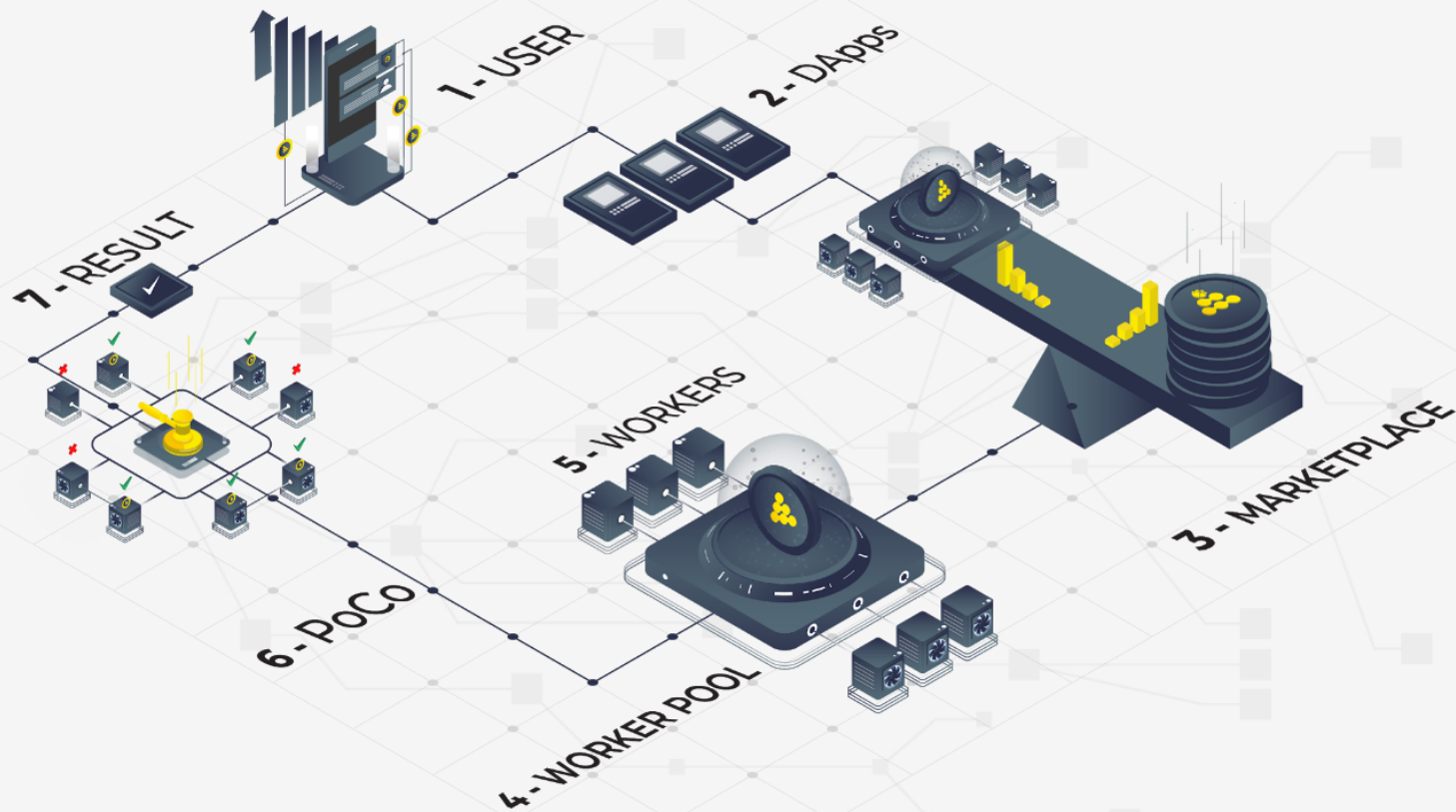
Time	TxHash	Pool
a month ago	0x9916955...	0xf1eD3013...
a month ago	0xd32dac34...	0x4B87027...
2 months ...	0x4f1d61a4...	0x82190e1...
2 months ...	0x8931429...	0x895e21D...
2 months ...	0x91130de7...	0x22e6819a...
2 months ...	0x3d50094...	0xd187894...
2 months ...	0x9ca29684...	0x2BAAO75...
2 months ...	0x10054be...	0x3C2cEbc...
2 months ...	0x6a94b0d...	0x4899295...
2 months ...	0xa2a8f6d...	0x8129416...
2 months ...	0x909be3b...	0xb79A8F7...
2 months ...	0xf662b3b...	0x8FEA289...
2 months ...	0xd134e91...	0x57c92F...
2 months ...	0xd751ca8b...	0x5FECaBc...

iExec SDK也提供浏览功能:

```
$ iexec work show  
$ iexec app show  
$ iexec workerpool show
```



iExec生态系统全局





iExec

基于区块链的分布式云计算

官网 <https://iex.ec>



扫描二维码加入
成都开发者社群