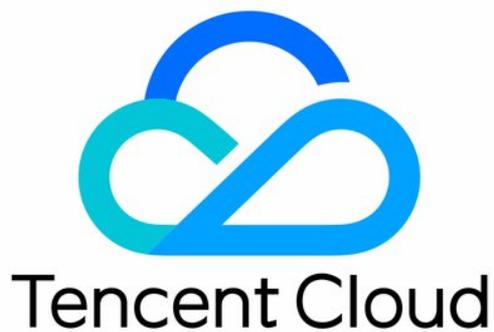


# **Tencent Cloud Blockchain RPC**

## **Operation Guide**

### **Product Documentation**



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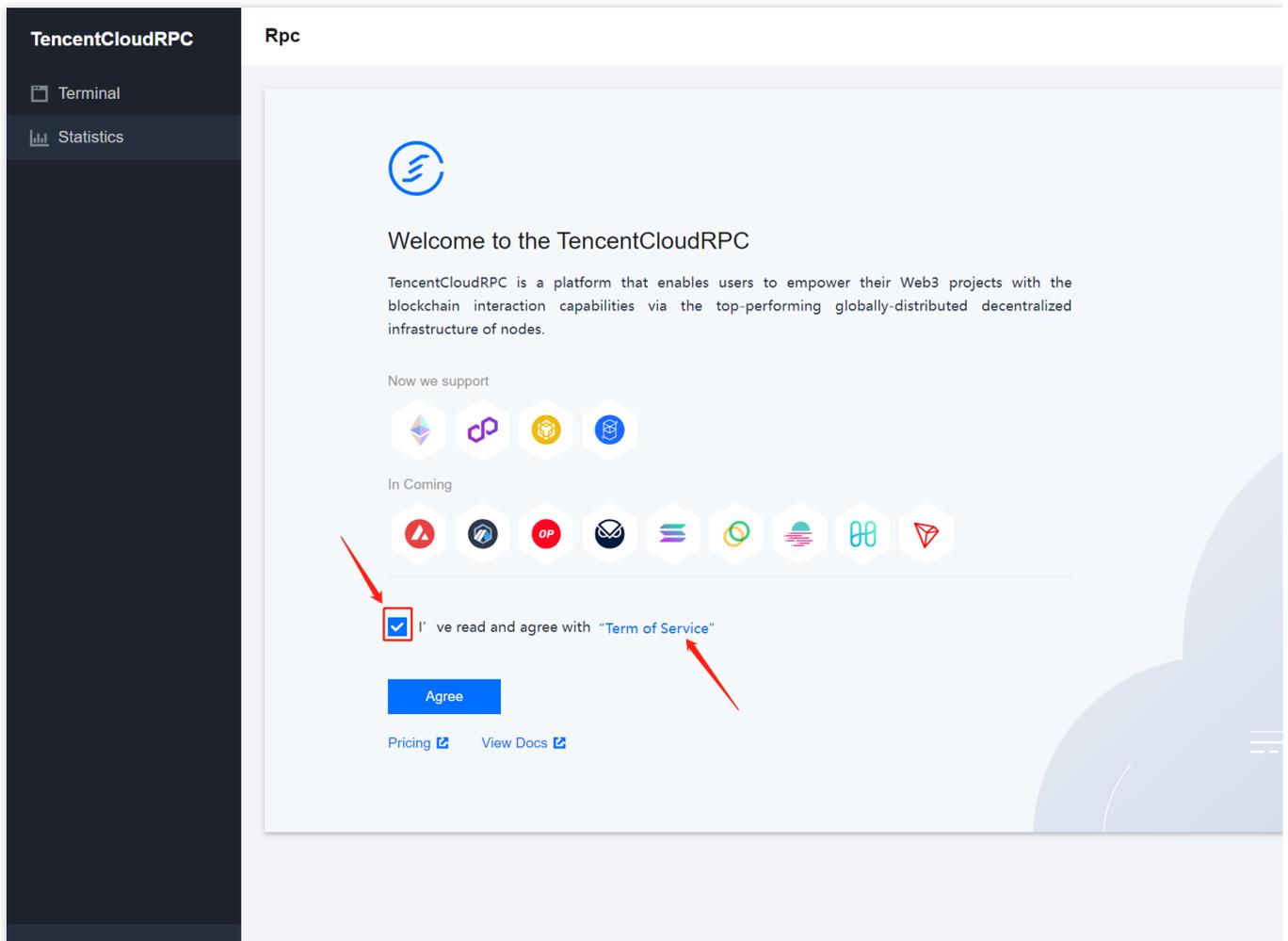
- View and Download Usage Information

# Operation Guide

## Apply Service

Last updated : 2023-09-11 16:28:45

1. Sign in to the Tencent Cloud International Website and go to the RPC console by visiting [Console-RPC](#).
2. Review the 'Terms of Service' and check the box to agree to them.



3. Click Agree to proceed with the service

**TencentCloudRPC**

- Terminal
- Statistics

### Rpc



## Welcome to the TencentCloudRPC

TencentCloudRPC is a platform that enables users to empower their Web3 projects with the blockchain interaction capabilities via the top-performing globally-distributed decentralized infrastructure of nodes.

Now we support

- 
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- 
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In Coming

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- 
- 

I've read and agree with "Term of Service"

[Agree](#)

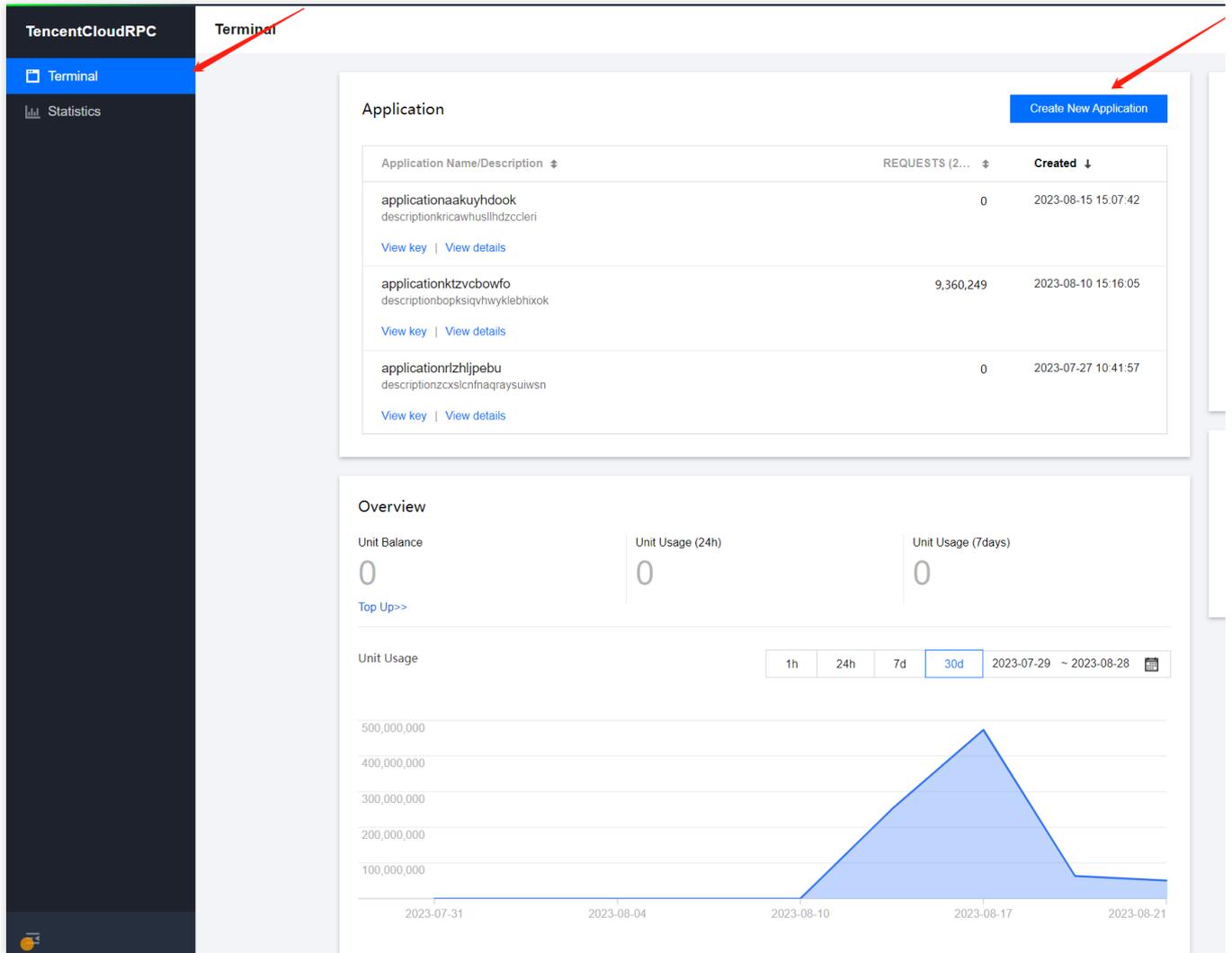
[Pricing](#) [View Docs](#)

# Create an Application

Last updated : 2023-09-11 16:29:03

1. Click the Terminal, and then click Create New Application.

**Note :** Make sure that the ApplicationName is not already in use.



2. Enter an Application Name and a Description.

The screenshot displays the Tencent Cloud Blockchain RPC console interface. On the left, there is a navigation menu with 'Terminal' and 'Statistics'. The main area is titled 'Terminal' and contains an 'Application' section with a table of existing applications. A 'Create New Application' dialog box is overlaid on the right, with the following details:

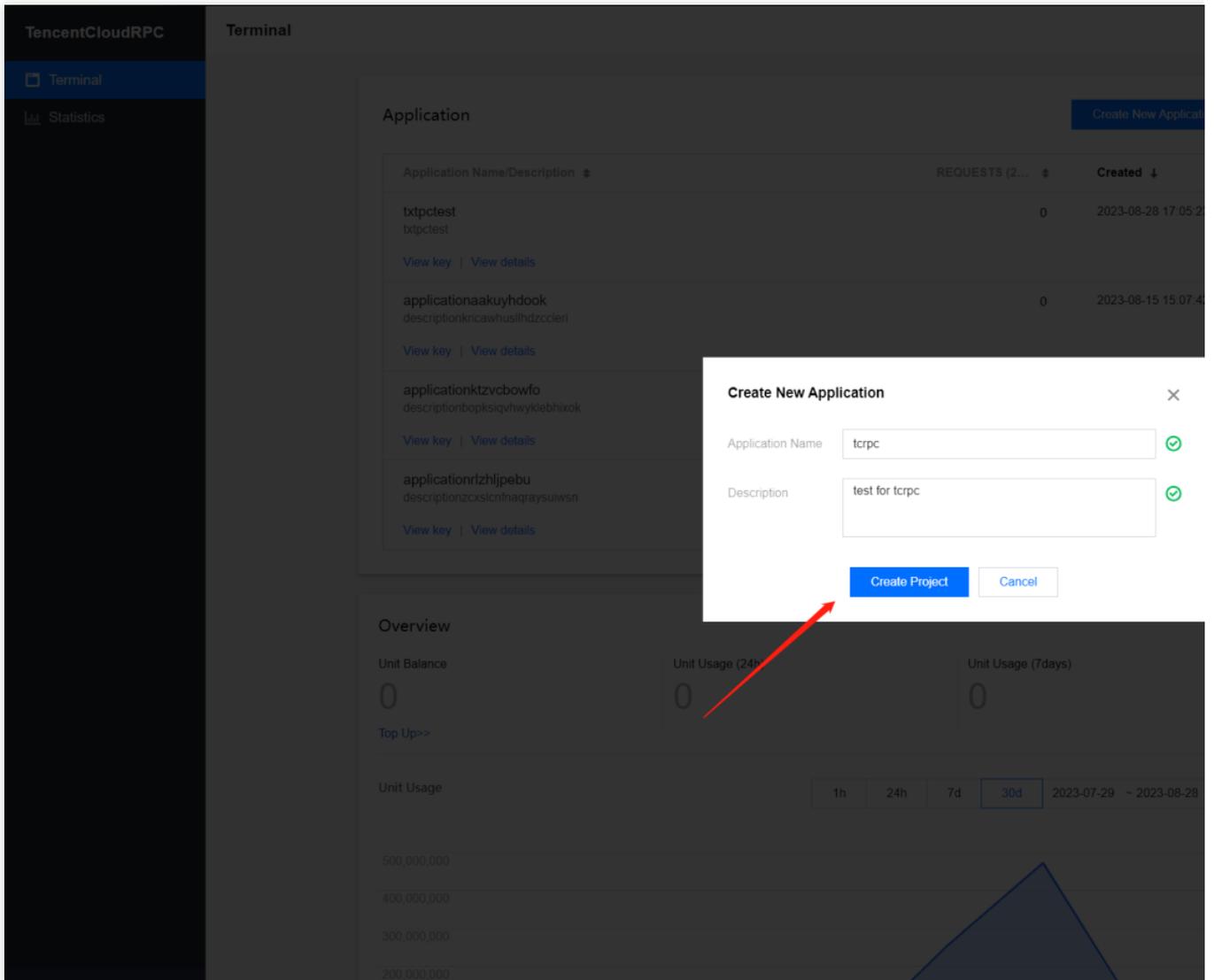
Application Name/Description	REQUESTS (24h)	Created
txtpctest txtpctest <a href="#">View key</a>   <a href="#">View details</a>	0	2023-08-28 17:05
applicationaakuyhdoock descriptionkicawhusilhdzccleli <a href="#">View key</a>   <a href="#">View details</a>	0	2023-08-15 15:07
applicationktzvcbowfo descriptionbopksiqvhwykletbhxok <a href="#">View key</a>   <a href="#">View details</a>		
applicationrzhjpebu descriptionzcxscnfhagraysuawsn <a href="#">View key</a>   <a href="#">View details</a>		

The 'Create New Application' dialog box contains the following fields and buttons:

- Application Name:  (with a green checkmark)
- Description:  (with a green checkmark)
- Buttons: [Create Project](#) and [Cancel](#)

Below the application list, there is an 'Overview' section showing 'Unit Balance', 'Unit Usage (24h)', and 'Unit Usage (7days)', all with a value of 0. A 'Top Up-->' link is also present. At the bottom, there is a 'Unit Usage' chart with a time range selector set to '30d' (from 2023-07-29 to 2023-08-28) and a line graph showing usage trends.

3. Click Create Project.



4. Project creation is successful.

**TencentCloudRPC**

Terminal

Statistics

### Terminal

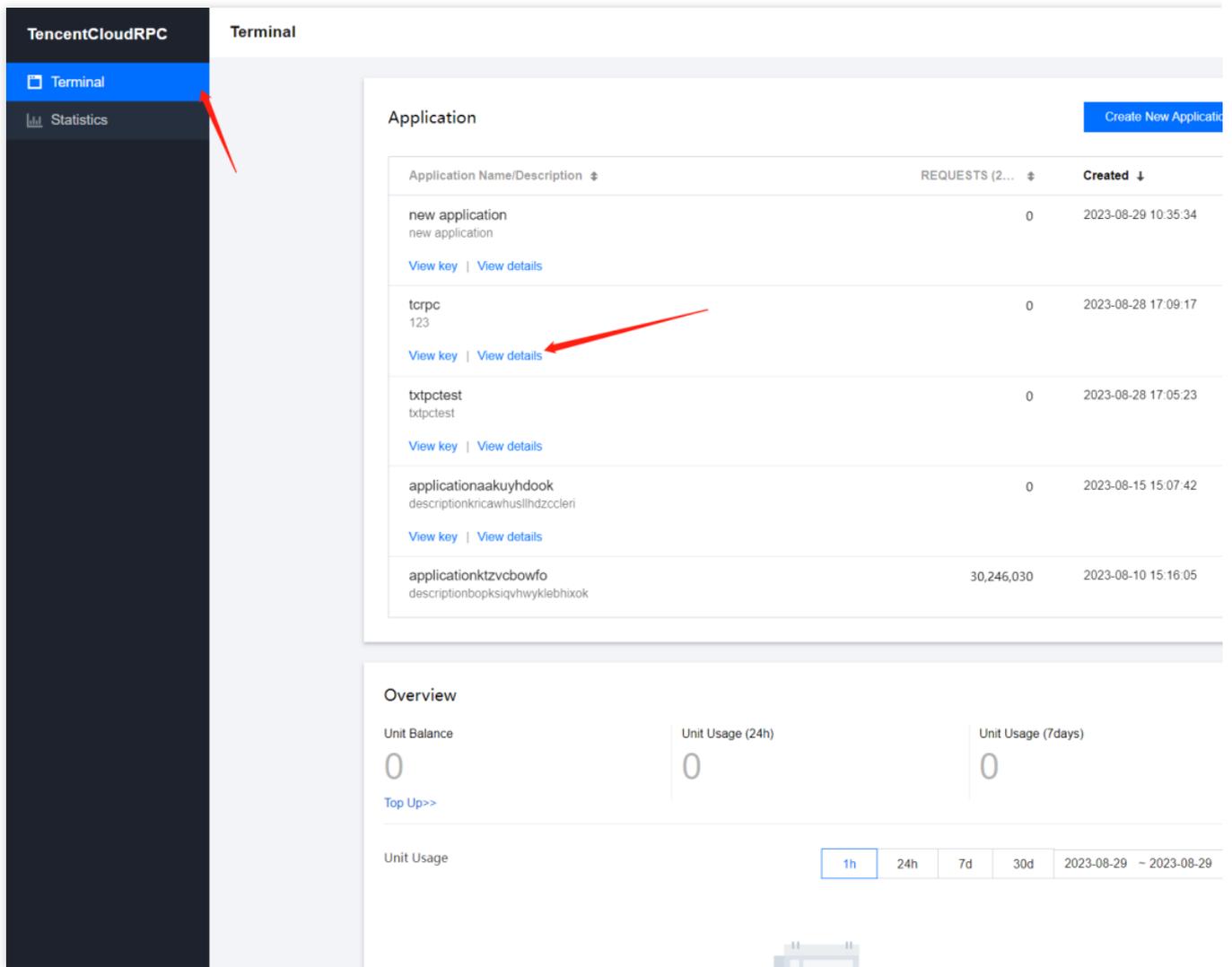
#### Application

Application Name/Description
<b>tcrpc</b> test for tcrpc <a href="#">View key</a>   <a href="#">View details</a>
<b>txtpctest</b> txtpctest <a href="#">View key</a>   <a href="#">View details</a>
<b>applicationaakuyhdook</b> descriptionkricawhusllhdzccleri <a href="#">View key</a>   <a href="#">View details</a>
<b>applicationktzvcbowfo</b> descriptionbopksiqvhwyclebhixok <a href="#">View key</a>   <a href="#">View details</a>
<b>applicationrlzhjpebu</b> descriptionzcxslcnfnaqraysuiwsn

# Application Information Maintenance

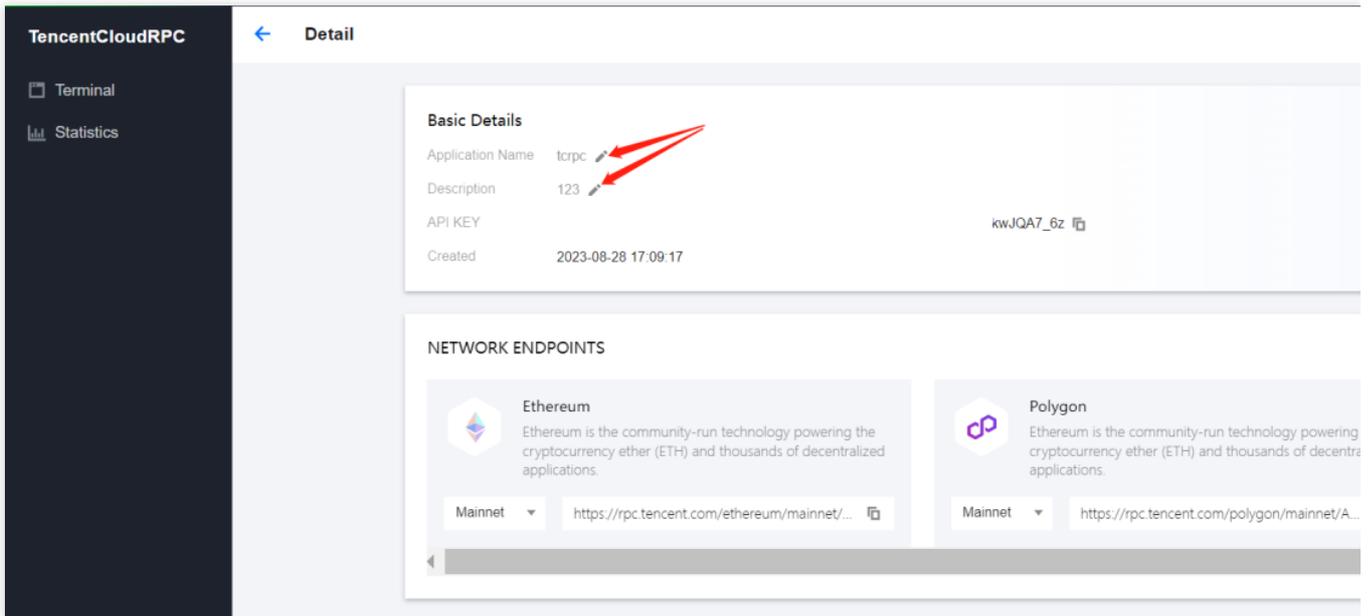
Last updated : 2023-09-11 16:29:16

1. Select the Application that needs to be renamed or modified, and click View details.

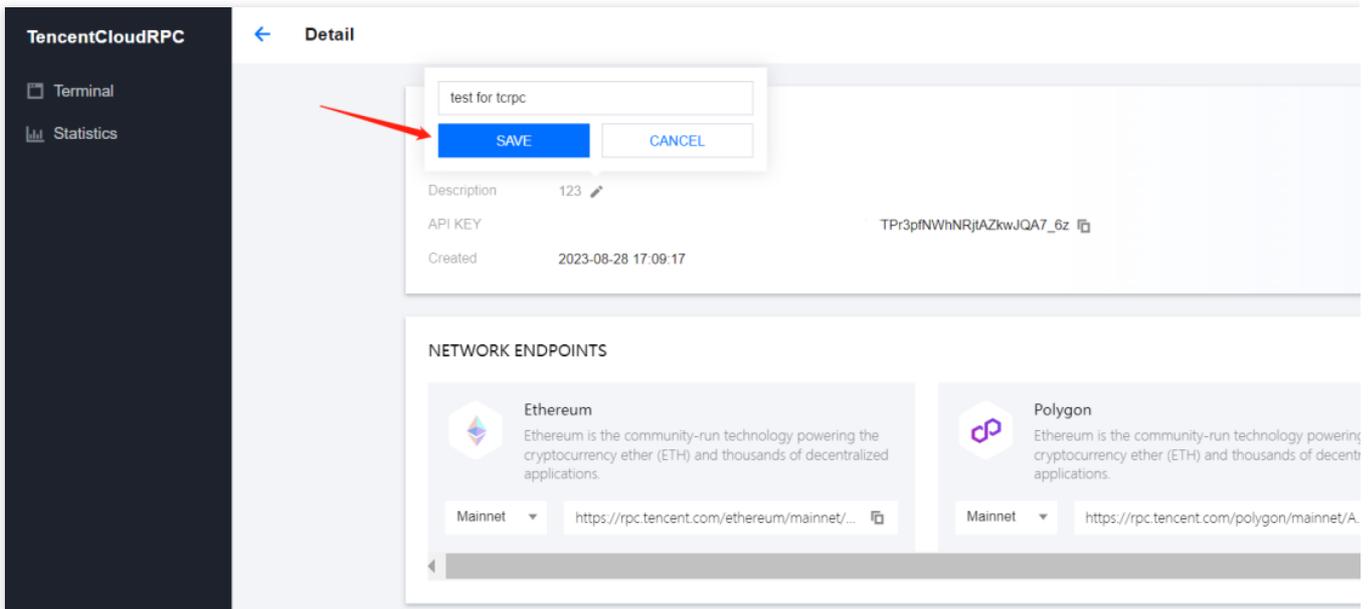


2. Modify the name or description.

**Note :** Make sure that the ApplicationName is not already in use



3. Enter the new name or description, and click SAVE to submit the changes.



# Request Blockchain RPC service

Last updated : 2023-09-11 16:29:27

1. Select the Application that you want to use, and click View details.

The screenshot shows the Tencent Cloud Blockchain RPC console interface. On the left, there is a dark sidebar with the 'Terminal' tab selected and highlighted in blue. A red arrow points to this tab. The main content area is titled 'Terminal' and contains an 'Application' section with a 'Create New Application' button. Below this is a table listing applications with columns for 'Application Name/Description', 'REQUESTS (24h)', and 'Created'. The 'tcrpc' application is highlighted with a red arrow pointing to its 'View details' link. Below the table is an 'Overview' section showing 'Unit Balance' (0), 'Unit Usage (24h)' (0), and 'Unit Usage (7days)' (0). At the bottom of the overview, there are tabs for '1h', '24h', '7d', and '30d', and a date range '2023-08-29 - 2023-08-29'.

Application Name/Description	REQUESTS (24h)	Created
new application new application <a href="#">View key</a>   <a href="#">View details</a>	0	2023-08-29 10:35:34
tcrpc 123 <a href="#">View key</a>   <a href="#">View details</a>	0	2023-08-28 17:09:17
txtpctest txtpctest <a href="#">View key</a>   <a href="#">View details</a>	0	2023-08-28 17:05:23
applicationaakuyhdook descriptionkricawhuslhdzccleri <a href="#">View key</a>   <a href="#">View details</a>	0	2023-08-15 15:07:42
applicationktzvcbowfo descriptionbopksiqvhwkylebhixok	30,246,030	2023-08-10 15:16:05

2. Move to the bottom of the page, and configure the IP/Domain whitelist (Note: Without a whitelist, all IP addresses can use this token to call the RPC service. Adding a whitelist allows only the IP addresses in the whitelist to use this token to call the RPC service).

2.1 Add the IP/Domain whitelist: Enter the IP/Domain in the input box, and click the Add button.

**Security**  
Ensure the integrity of your requests by adding an extra layer of security with the domain (url referer or origin header) and IP address allowlist.

Add website address 10 max  List of allowed websites

[Add](#)

Add IP address 10 max List of allowed IP addresses

[Add](#)

**Security**  
Ensure the integrity of your requests by adding an extra layer of security with the domain (url referer or origin header) and IP address allowlist.

Add website address 10 max List of allowed websites

[Add](#) console.intl.cloud.tencent.com ✕

Add IP address 10 max List of allowed IP addresses

[Add](#)

2.2 Remove the IP/Domain whitelist: Click the cancel button for the corresponding IP/Domain in the whitelist.

**Security**  
Ensure the integrity of your requests by adding an extra layer of security with the domain (url referer or origin header) and IP address allowlist.

Add website address 10 max List of allowed websites

[Add](#) console.intl.cloud.tencent.com ✕

Add IP address 10 max List of allowed IP addresses

[Add](#) 127.0.0.1 ✕ 

**Security**  
 Ensure the integrity of your requests by adding an extra layer of security with the domain (url referer or origin header) and IP address allowlist.

Add website address 10 max List of allowed websites

Add console.intl.cloud.tencent.com ✕

Add IP address 10 max List of allowed IP addresses

Add

3. Select the chain service, network, and other information you want to use, such as Mainnet in Ethereum.

**NETWORK ENDPOINTS**

**Ethereum**  
 Ethereum is the community-run technology powering the cryptocurrency ether (ETH) and thousands of decentralized applications.

Mainnet ▼ <https://rpc.tencent.com/ethereum/mainnet/...>

**Polygon**  
 Ethereum is the community-run technology powering the cryptocurrency ether (ETH) and thousands of decentralized applications.

Mainnet ▼ <https://rpc.tencent.com/polygon/mainnet/A...>

---

**GET STARTED**

CHAIN ↙ NETWORK ↙

Ethereum Mainnet

**HTTP**

```
# bash
curl -X POST https://rpc.tencent.com/ethereum/mainnet/... -d '{"jsonrpc":"2.0",'
```

**WSS**

```
# bash
wscat -c wss://rpc.tencent.com/ethereum/mainnet/...
# subscribe
> [{"jsonrpc": "2.0", "id": 1, "method": "eth_subscribe", "params": ["newHeads"]}
# unsubscribe
> [{"jsonrpc": "2.0", "id": 2, "method": "eth_unsubscribe", "params": ["The result value returned after successful subscription"]}
```

4. Call the RPC service

4.1 Invoke the RPC service using command-line commands: copy the command in the example and paste it to the whitelist machine, then press Enter to execute it using curl/wscat commands.

### GET STARTED

CHAIN: Ethereum NETWORK: Mainnet

**HTTP**

```
# bash
curl -X POST https://rpc.tencent.com/ethereum/mainnet/... '{"jsonrpc":"2.0",
```

**WSS**

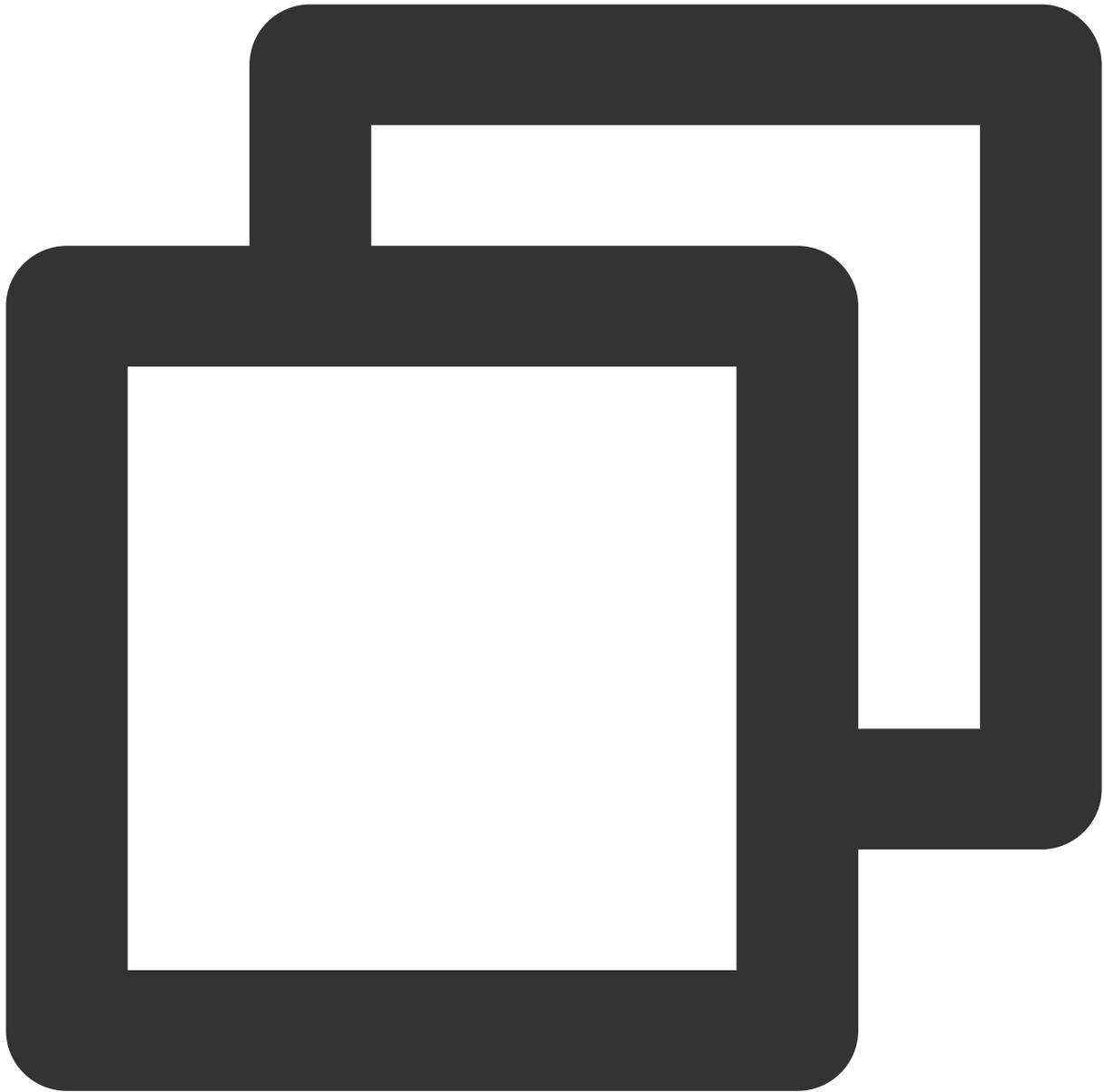
```
# bash
wscat -c wss://rpc.tencent.com/ethereum/mainnet/...
# subscribe
> {'jsonrpc': '2.0', 'id': 1, 'method': 'eth_subscribe', 'params': ['newHeads']}
# unsubscribe
> {'jsonrpc': '2.0', 'id': 2, 'method': 'eth_unsubscribe', 'params': ['The result value returned after successful subscription']}
```

4.2 Invoke the RPC service using code: Copy the RPC invocation address in the NETWORK ENDPOINTS and connect to it using HTTP or HTTPS.

### NETWORK ENDPOINTS

 <p><b>Ethereum</b> Ethereum is the community-run technology powering the cryptocurrency ether (ETH) and thousands of decentralized applications.</p> <p>Mainnet <span>▼</span> <a href="https://rpc.tencent.com/ethereum/mainnet/...">https://rpc.tencent.com/ethereum/mainnet/...</a> </p>	 <p><b>Polygon</b> Ethereum is the community-run technology powering the cryptocurrency ether (ETH) and thousands of decentralized applications.</p> <p>Mainnet <span>▼</span> <a href="https://rpc.tencent.com/polygon/mainnet/A...">https://rpc.tencent.com/polygon/mainnet/A...</a> </p>
--	---

Demo :



```
package test

import (
    "context"
    "fmt"
    "github.com/ethereum/go-ethereum"
    "github.com/ethereum/go-ethereum/core/types"
    "github.com/ethereum/go-ethereum/ethclient"
    "log"
    "testing"
)
```

```
func Test_ws(t *testing.T) {
    chainUrl := ""
    client, err := ethclient.Dial(chainUrl)
    if err != nil {
        log.Fatal(err)
    }

    query := ethereum.FilterQuery{}
    logs := make(chan types.Log)
    sub, err := client.SubscribeFilterLogs(context.Background(), query, logs)
    if err != nil {
        log.Fatal(err)
    }
    fmt.Printf("sub: %+v\n", sub)

    for {
        select {
            case err := <-sub.Err():
                fmt.Printf("err: %+v", err)
            case vLog := <-logs:
                fmt.Printf("%+v\n", vLog.BlockNumber)
        }
    }
    fmt.Printf("client: %+v", client)
}

func Test_http(t *testing.T) {
    chainUrl := ""
    client, err := ethclient.Dial(chainUrl)
    if err != nil {
        log.Fatal(err)
    }

    height, err := client.BlockNumber(context.Background())
    if err != nil {
        log.Fatal(err)
    }
    fmt.Printf("block height: %+v\n", height)
    fmt.Printf("client: %+v", client)
}
```

# View and Download Usage Information

Last updated : 2023-09-11 16:29:38

1. View account package total usage: Click the Terminal, move to the bottom of the page, and change the query time range in the Overview.

The screenshot displays the Tencent Cloud Blockchain RPC interface. On the left, a sidebar menu shows 'Terminal' (highlighted with a red arrow) and 'Statistics'. The main content area is divided into two sections. The top section is a table listing applications with their names, descriptions, request counts, and creation times. The bottom section is an 'Overview' dashboard with three unit usage cards (24h, 7days) and a line chart showing usage trends from July 31 to August 29, 2023.

Application Name/Description	REQUESTS (2...)	Created
123		
<a href="#">View key</a>   <a href="#">View details</a>		
txtpctest txtpctest	0	2023-08-28 17:05:23
<a href="#">View key</a>   <a href="#">View details</a>		
applicationaakuyhdoock descriptionkricawhusllhdzccleri	0	2023-08-15 15:07:42
<a href="#">View key</a>   <a href="#">View details</a>		
applicationktzvcbowfo descriptionbopksiqvhwkyiebixok	26,716,650	2023-08-10 15:16:05
<a href="#">View key</a>   <a href="#">View details</a>		
applicationrlzhjpebu descriptionzcxslcnfnaqraysuiwsn	0	2023-07-27 10:41:57
<a href="#">View key</a>   <a href="#">View details</a>		

**Overview**

Unit Balance: 0  
[Top Up>>](#)

Unit Usage (24h): 0

Unit Usage (7days): 0

Unit Usage: 1h | 24h | 7d | **30d** | 2023-07-30 ~ 2023-08-29

500,000,000  
400,000,000  
300,000,000  
200,000,000  
100,000,000

2023-07-31      2023-08-04      2023-08-10      2023-08-17      2023-

2. View usage information under a specific token:

Step1: Click Statistics.

Step2: Select Application, Chain, Network.

Step3: Change the query time range.

**TencentCloudRPC** **Statistics**

Terminal

Statistics

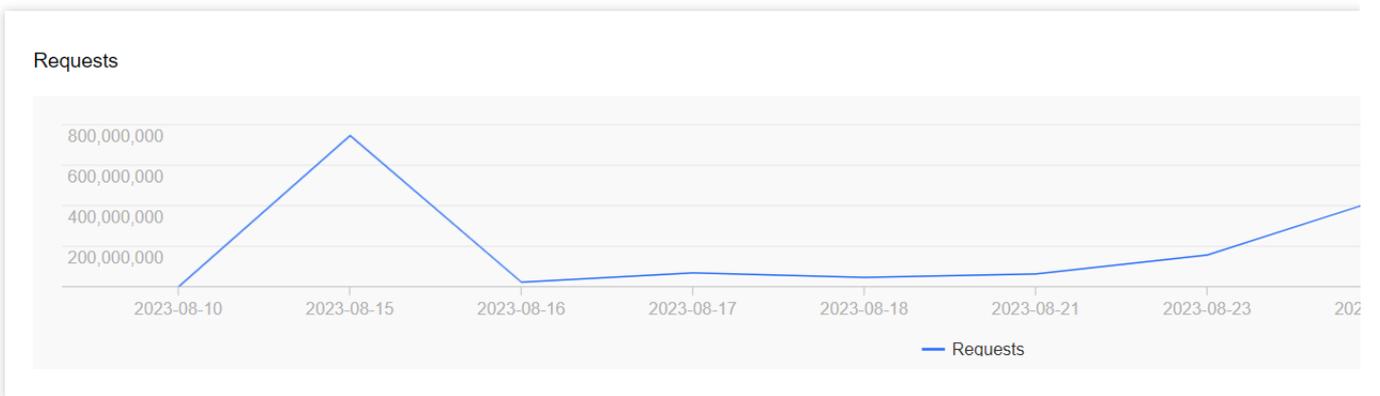
APPLICATION NAME: applicationkztzvcbowfo

CHAIN: Ethereum

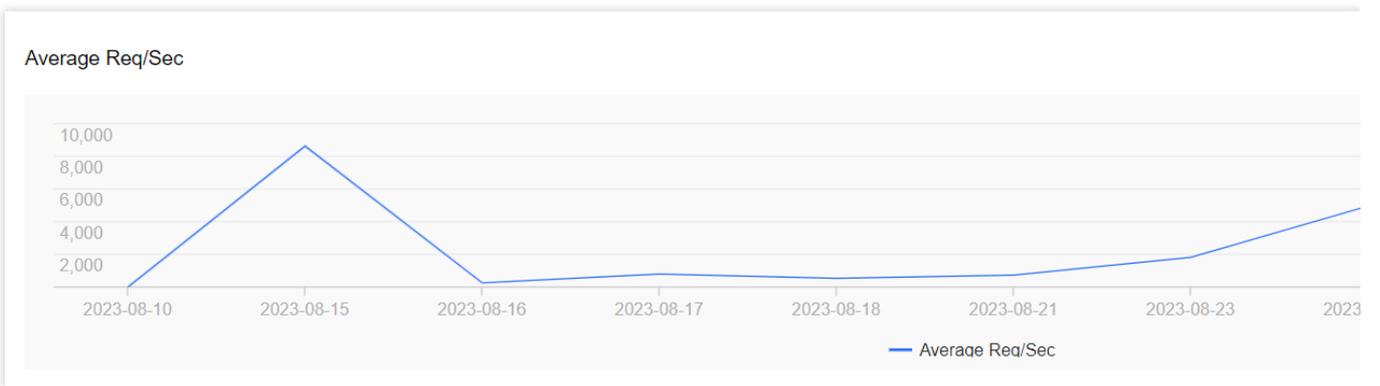
NETWORK: Mainnet

Total Requests	Average Req/Sec	Unit Usage
1,748,722,992	674	838,513,810

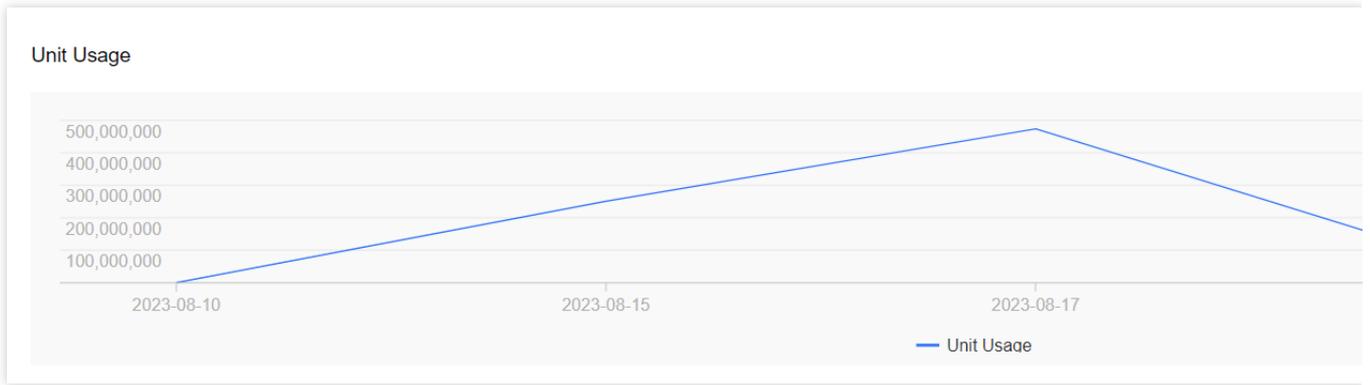
Request statistics chart (records the total number of requests within a certain period of time):



Average Req/Sec statistics chart (records the average number of queries per second within a certain period of time):



Unit Usage statistics chart (records the total consumption of packages within a certain period of time):



3. Download usage information.

**TencentCloudRPC**

- Terminal
- Statistics**

**Statistics**

APPLICATION NAME: applicationktzvcbowfo | CHAIN: Ethereum | NETWORK: Mainnet

Total Requests	Average Req/Sec	Unit Usage
803,895,635	1,329	0

**Requests**

**Average Req/Sec**