

Tencent Cloud Blockchain RPC

Operation Guide

Product Documentation



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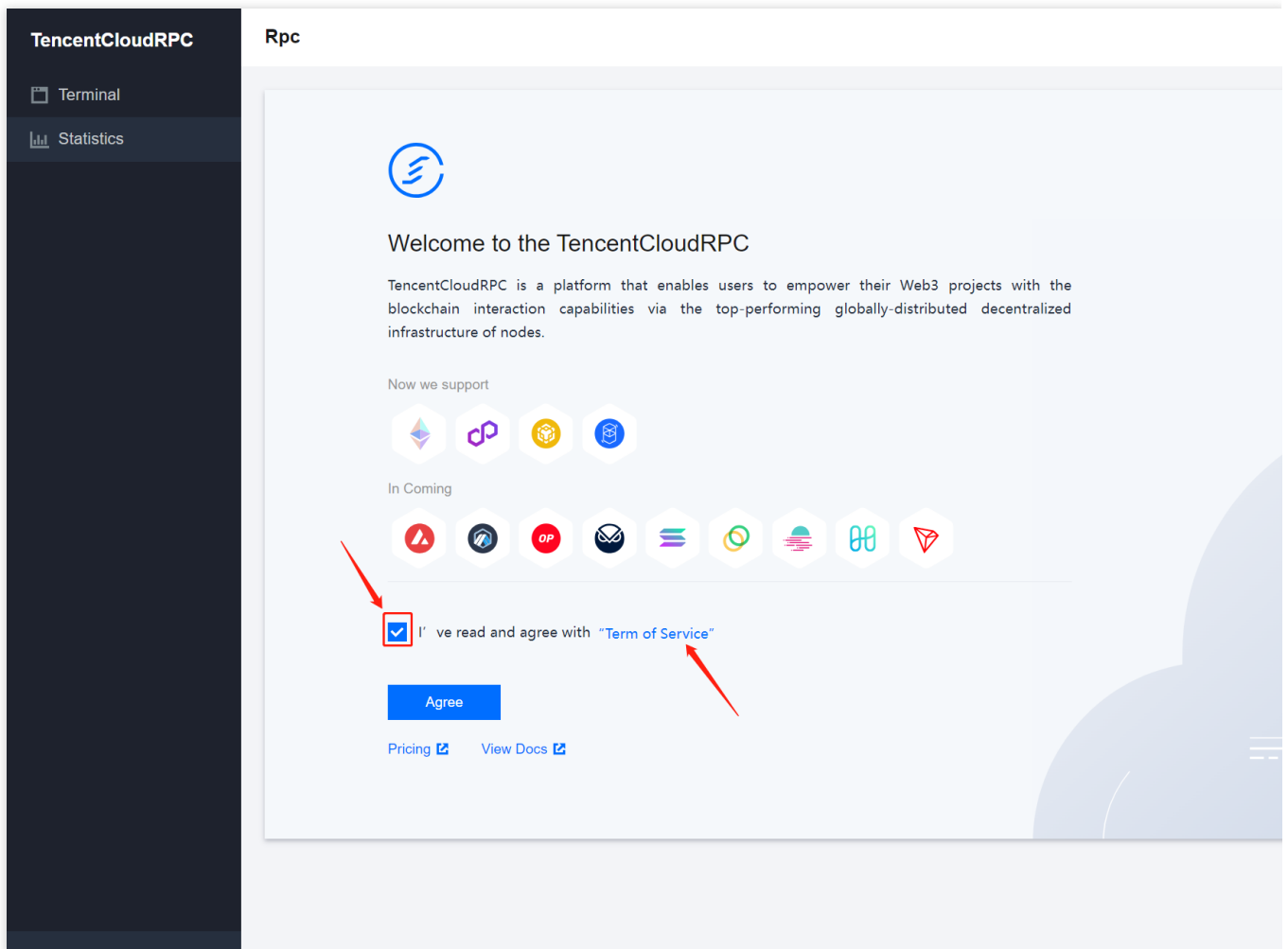
- View and Download Usage Information

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



In Coming



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.

The screenshot displays the Tencent Cloud Blockchain RPC console interface. On the left, a dark sidebar contains the 'Terminal' tab, which is highlighted in blue. The main content area is titled 'Application' and features a 'Create New Application' button in the top right corner. Below this, a table lists existing applications with columns for 'Application Name/Description', 'REQUESTS (24h)', and 'Created'. Three applications are listed, each with a 'View key' and 'View details' link. Below the table is an 'Overview' section showing 'Unit Balance' (0), 'Unit Usage (24h)' (0), and 'Unit Usage (7days)' (0). A 'Top Up>>' link is provided. The 'Unit Usage' section includes a line chart with a 30-day selection, showing usage starting around 2023-08-10 and peaking at approximately 500,000,000 units around 2023-08-17.

Application Name/Description	REQUESTS (24h)	Created
applicationaakyhdook descriptionkricawhuslhdzccleir	0	2023-08-15 15:07:42
applicationktzvcbowfo descriptionbopksiqvhwkylebhixok	9,360,249	2023-08-10 15:16:05
applicationrlzhjpebu descriptionzcxslcfnhaqraysuiwsn	0	2023-07-27 10:41:57

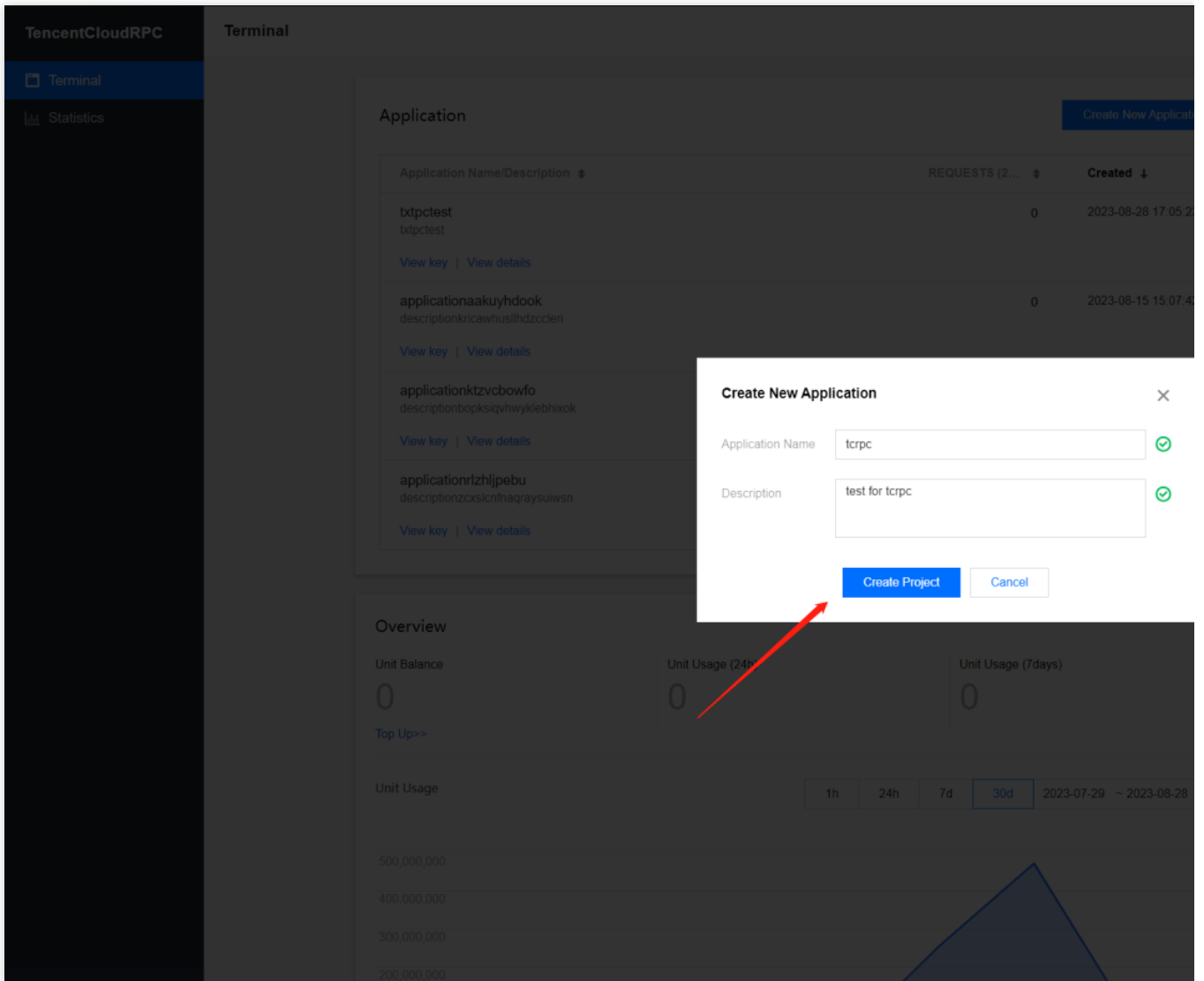
2. Enter an Application Name and a Description.

The screenshot displays the Tencent Cloud Blockchain RPC console interface. On the left, a sidebar contains 'Terminal' and 'Statistics' options. The main area is titled 'Terminal' and features an 'Application' table with columns for 'Application Name/Description', 'REQUESTS (24h)', and 'Created'. Below the table, there are links for 'View key' and 'View details' for each application. A 'Create New Application' modal is overlaid on the right, with the following details:

- Application Name: tcrpc
- Description: test for tcrpc
- Buttons: Create Project, Cancel

Below the application list, an 'Overview' section shows 'Unit Balance', 'Unit Usage (24h)', and 'Unit Usage (7days)', all with a '0' value and a 'Top Up-->' link. A 'Unit Usage' chart is visible at the bottom, with a time range of '2023-07-29 ~ 2023-08-26' and a selected '30d' interval.

3. Click Create Project.



4. Project creation is successful.

TencentCloudRPC


Terminal

Terminal

Statistics

Application

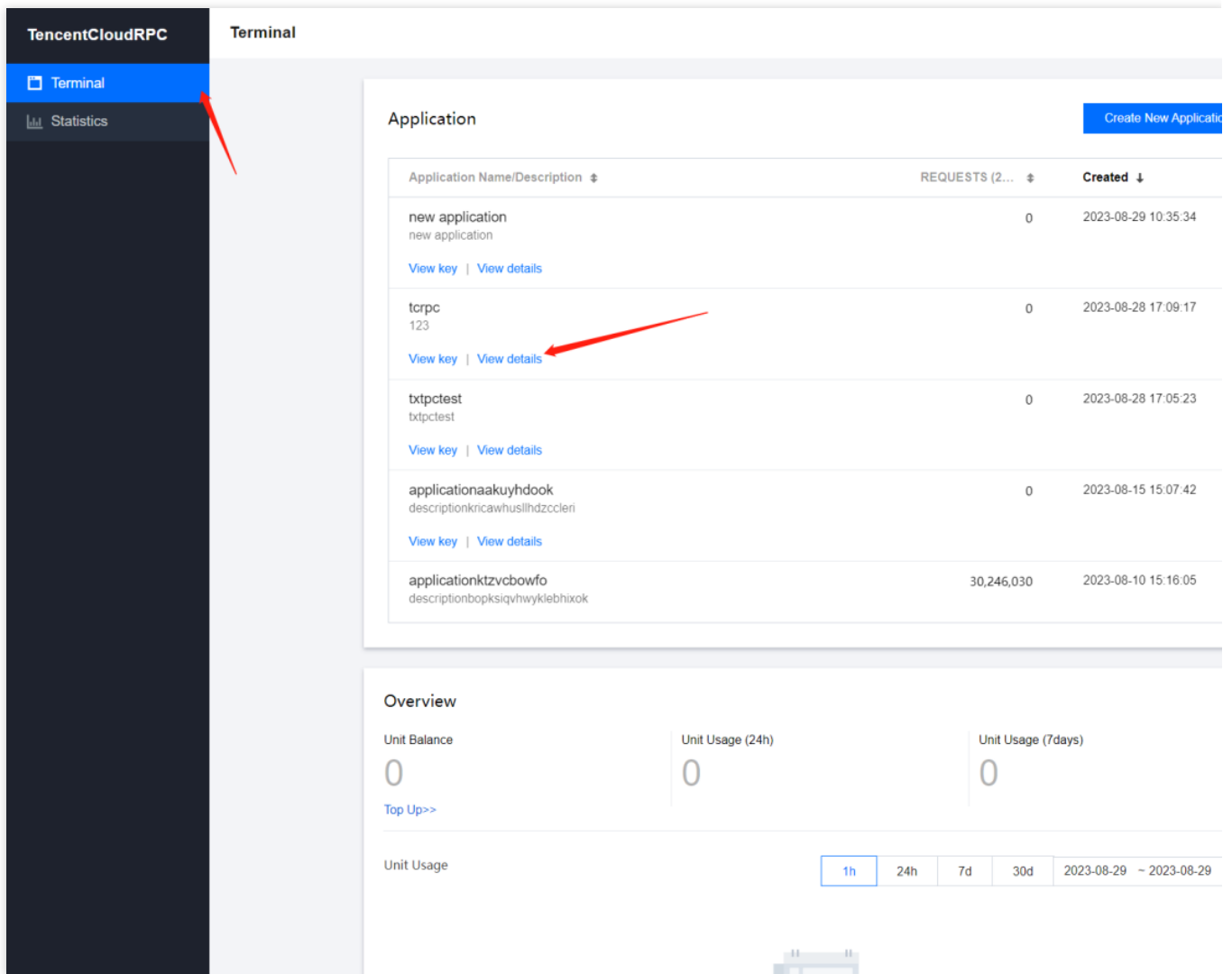
Application Name/Description
tcrpc test for tcrcp View key View details
txtpctest txtpctest View key View details
applicationaakuyhdook descriptionkricawhusllhdzccleri View key View details
applicationktzvcbowfo descriptionbopksiqvhwyclebhixok View key View details
applicationrlzhlpjebu descriptionzcxslcnfnaqraysuiwsn



Application Information Maintenance

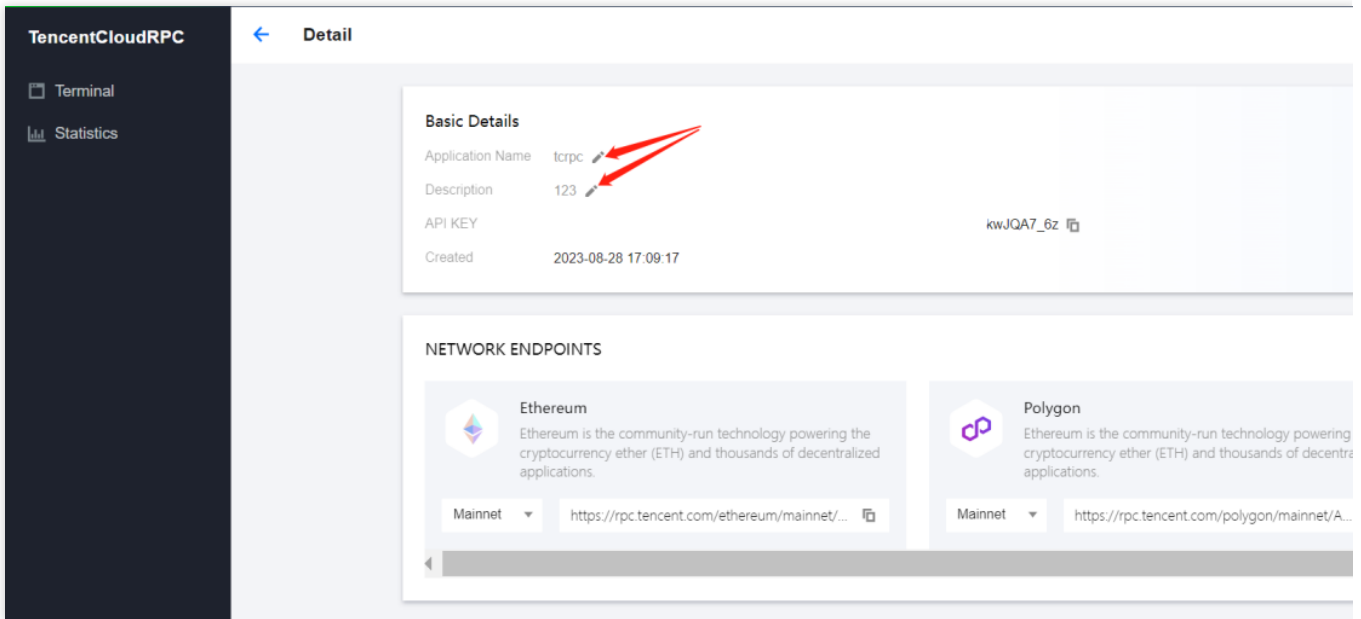
Last updated : 2023-09-11 16:29:16

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

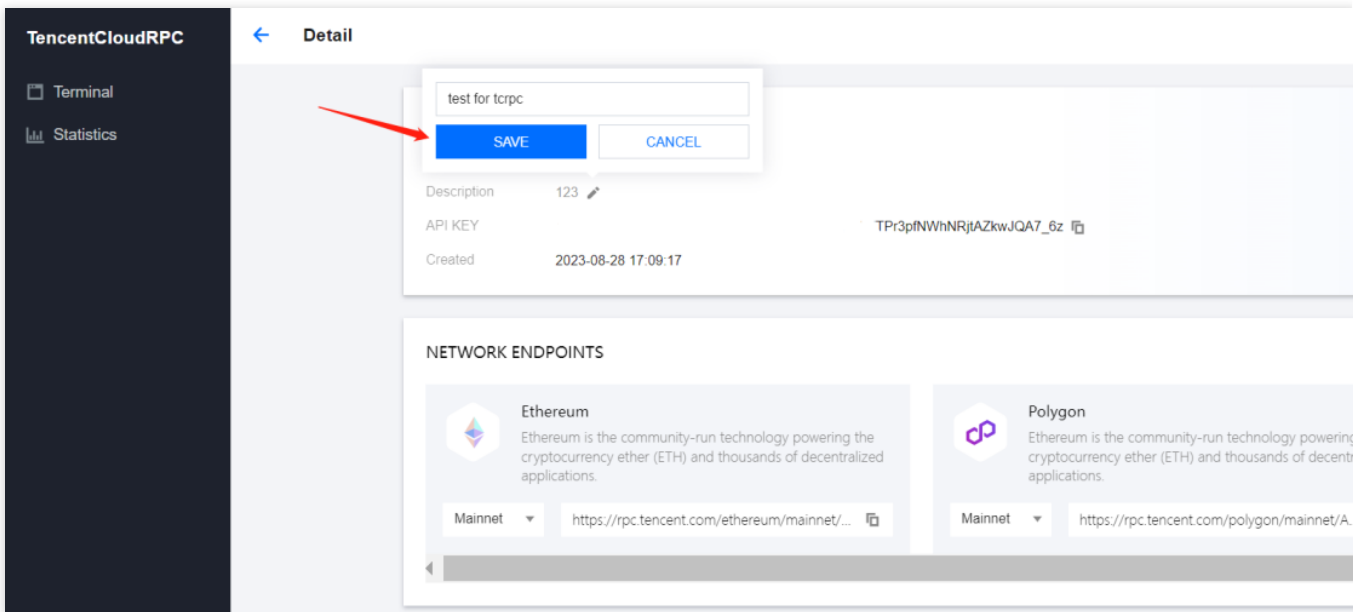


2. Modify the name or description.

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 is a 'Unit Usage' chart area with a time range selector set to '1h' and a date range of '2023-08-29 - 2023-08-29'.

Application Name/Description	REQUESTS (24h)	Created
new application new application View key View details	0	2023-08-29 10:35:34
tcrpc 123 View key View details	0	2023-08-28 17:09:17
txtpctest txtpctest View key View details	0	2023-08-28 17:05:23
applicationaakuyhdook descriptionkricawhuslhdzccleri View key View details	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

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

Add IP address 10 max List of allowed IP addresses

255 . 255 . 255 . 255 [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

255 . 255 . 255 . 255 [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

255 . 255 . 255 . 255 [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

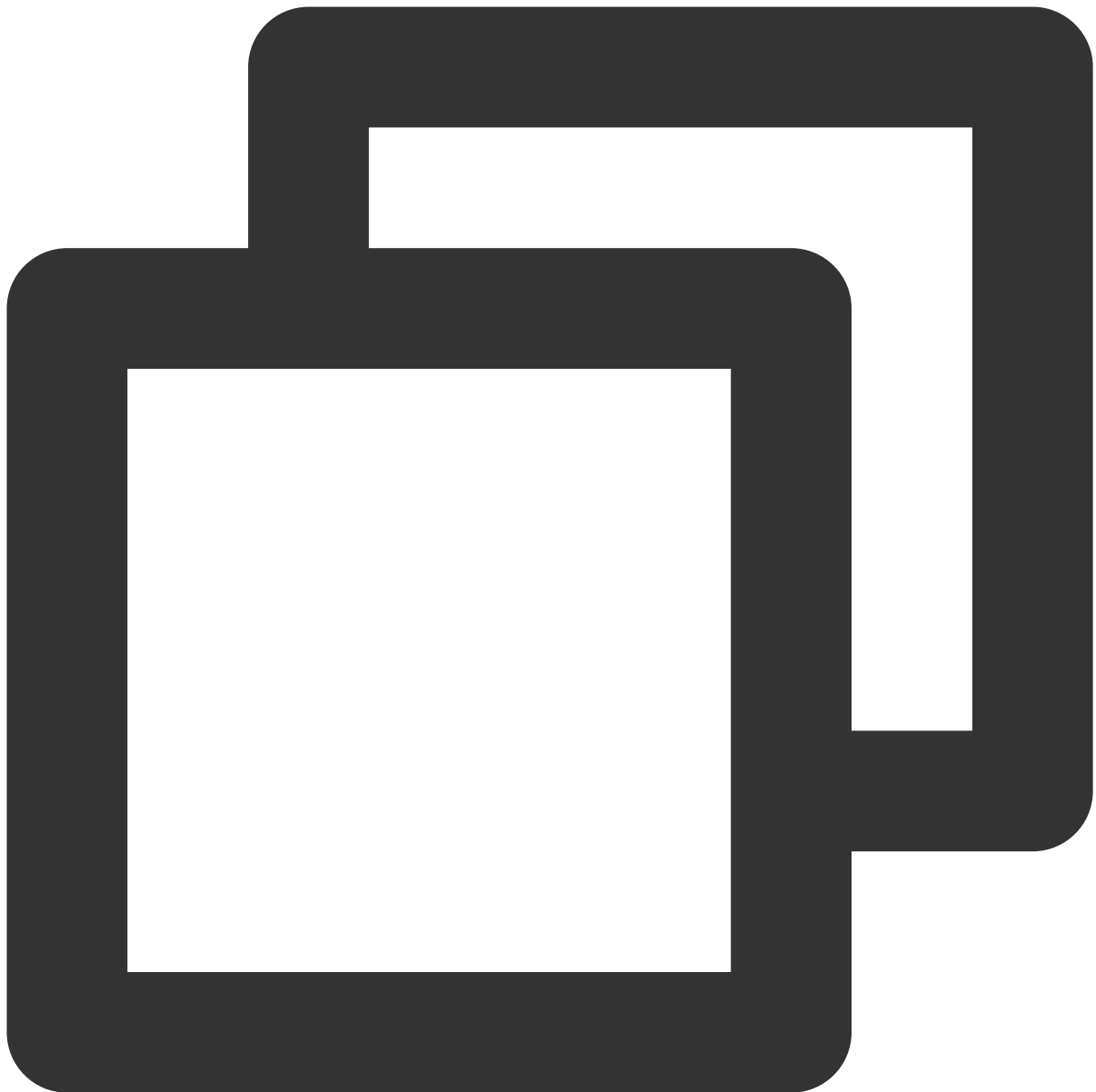
```
# bash
wscat -c wss://rpc.tencent.com/ethereum/mainnet/...
# subscribe
> {'jsonrpc': '2.0', 'id': 1, 'method': 'eth_subscribe', 'params': ['newHeads']}
# unsubscribe
> {'jsonrpc': '2.0', 'id': 2, 'method': 'eth_unsubscribe', 'params': ['The result value returned after successful subscription']}
```

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>Ethereum Ethereum is the community-run technology powering the cryptocurrency ether (ETH) and thousands of decentralized applications.</p> <p>Mainnet ▼ https://rpc.tencent.com/ethereum/mainnet/... </p>	 <p>Polygon Ethereum is the community-run technology powering the cryptocurrency ether (ETH) and thousands of decentralized applications.</p> <p>Mainnet ▼ https://rpc.tencent.com/polygon/mainnet/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 contains 'Terminal' (highlighted with a red arrow) and 'Statistics'. The main content area is divided into two sections:

Application Usage Table:

Application Name/Description	REQUESTS (2...)	Created
123		
txtpctest txtpctest	0	2023-08-28 17:05:23
applicationaakuyhdoock descriptionkricawhusllhdzccleri	0	2023-08-15 15:07:42
applicationktzvcbowfo descriptionbopksiqvhwkyiebhihixok	26,716,650	2023-08-10 15:16:05
applicationrlzhjpebu descriptionzcxslcnfnaqraysuiwsn	0	2023-07-27 10:41:57

Overview Section:

- Unit Balance: 0
- Unit Usage (24h): 0
- Unit Usage (7days): 0

Below the overview, there is a 'Unit Usage' line chart. The x-axis shows dates from 2023-07-31 to 2023-08-29. The y-axis shows usage from 0 to 500,000,000. A blue area chart shows a sharp increase in usage starting around 2023-08-10, peaking at approximately 480,000,000 around 2023-08-17, and then declining.

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

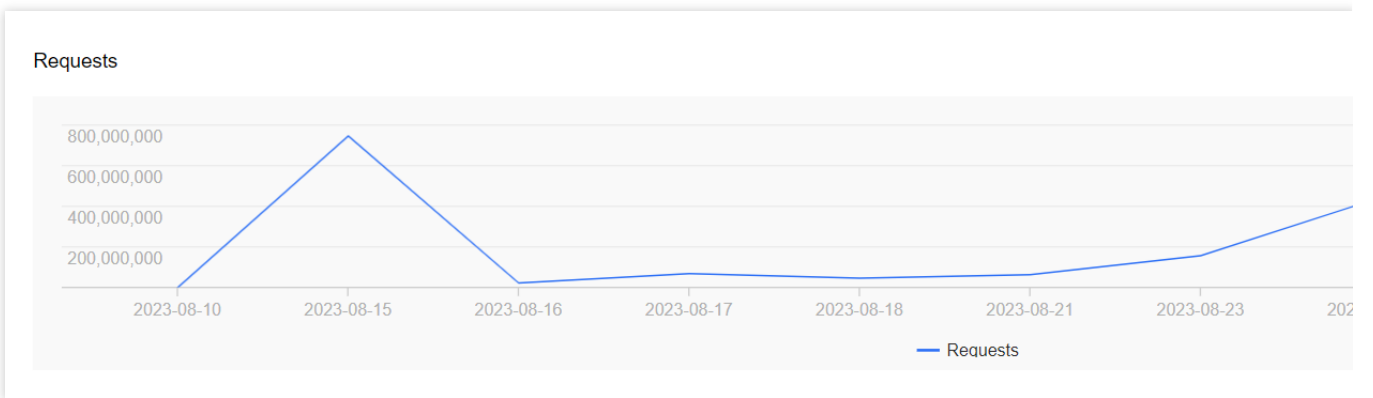
APPLICATION NAME: applicationkztzvcbowfo

CHAIN: Ethereum

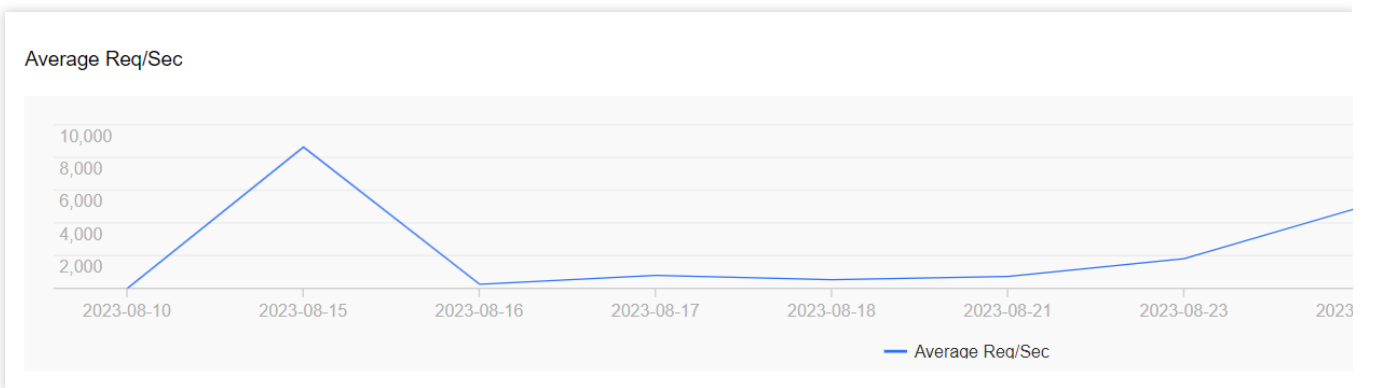
NETWORK: Mainnet

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

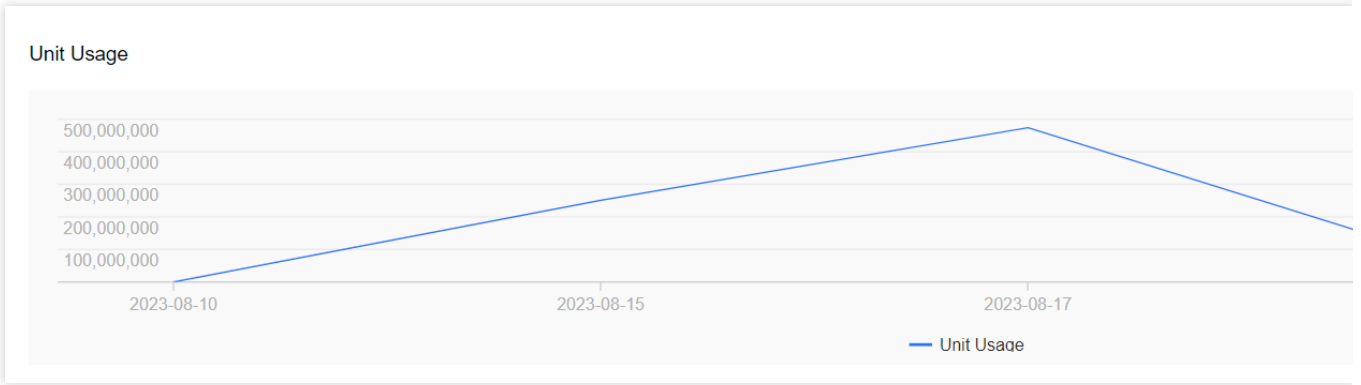
Request statistics chart (records the total number of requests within a certain period of time):



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