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# getBlockWithTransactions - SDK

Returns the block from the network based on the provided block number or hash. In addition to the transaction hashes included in the block, it also returns the full transaction objects.

#### All CSS

/ dont have api sec start/.api key instruct ban{ background: #F5FCFF; border: 1px solid rgba(207, 217, 240, 0.2); border-radius: 12px; -webkit-border-radius: 12px; display: flex; flex-wrap; wrap; padding: 33px; } .markdown-body h3 { color: #00000 limportant; } .api key instruct ban Ift h3{ font-size: 24px; line-height: 1.3; letter-spacing: -0.03em; font-weight: 700; font-family: 'Inter', sans-serif; margin-bottom: 7px; margin-top: 0px; color: #00000 limportant; } .api key instruct ban Ift h3:last-child{ margin-bottom: 0; } .api\_key\_instruct\_ban\_lft p{ font-size: 14px; line-height: 1.3; color: #000000; font-family: 'Inter', sans-serif; font-weight: 400; } .gt\_startd\_vbtn{ display: inline-block; color: #FFFFFF !important; background: lineargradient(126.33deg, #36BEFF 5.38%, #733FF1 108.32%); border-radius: 6px; font-size: 16px; line-height: 1.3; font-weight: 600; font-family: 'Inter', sans-serif; padding: 9px 16px; } .gt\_startd\_vbtn:hover{ background: #000; color: #fff; } .api key instruct ban lft{ flex-basis: 60%; max-width: 60%; padding-right: 15px; } .api key instruct ban rtt{ flex-basis: 40%; max-width: 40%; padding-left: 15px; align-self: center; \ / dont have api sec end/

```
/* ======= responsive css ======= */
@media(min-width:1025px) {}
@media(max-width:1199px) {
  .api_main {
    max-width: 100%;
  .api_main_cont ul li a {
    width: 100%:
  .left_icon .evm_part {
    width: 73%:
    margin: 22px auto auto auto;
  .api_main_cont ul li a {
    padding: 10px 18px:
    border-radius: 12px;
  .api_main_cont ul li a:hover::before {
    border-radius: 12px;
  .learn_box,
  .lear outer {
    height: 100%;
  .navbar-nav>li>a {
    font-size: 15px;
     padding: 8px 10px;
```

```
.top header links ul li a{
    font-size: 15px;
  .footer_links_box ul li a{
    font-size: 13px;
  /* dont_have_api_sec_start */
  .api_key_instruct_ban{
       display: block;
       text-align: center:
       background: linear-gradient(180deg, #EBF9FF 0%, #EEF3FE 100%);
     .api_key_instruct_ban_lft,.api_key_instruct_ban_rtt{
       max-width: 100%;
       padding: 0;
       flex-basis: 100%;
     .api_key_instruct_ban_lft{
       margin-bottom: 30px;
  /* dont_have_api_sec_end */
@media (max-width: 768px) {
    /* dont_have_api_sec_start */
     .api_key_instruct_ban_lft h3{
       font-size: 30px;
     .api_key_instruct_ban_lft p{
       font-size: 16px;
     .wrapper_body_cmn_out{
       max-width: 100%;
     .api_key_instruct_ban_lft h3 {
       font-size: 40px;
       margin-bottom: 16px;
    /* dont_have_api_sec_end */
@media (max-width: 350px){
  /* dont_have_api_sec_start */
  .api_key_instruct_ban_lft h3{
    font-size: 36px;
  .api_key_instruct_ban{
    padding: 30px;
    dont_have_api_sec_end */
```

whole\_Section\_wrapperdont\_have\_api\_sec\_start### Don't have an API key?

Start using this method in your app today. Get started for free dont\_have\_api\_sec\_end

# **Description**

Returns the block from the network based on the provided block number or hash. In addition to the transaction hashes included in the block, it also returns the full transaction objects.

# **Parameters**

Name Type Description blockHashOrBlockTag string The block number or hash to get the block for.

# Response

Property Type Description Promise object Returns a block object with the following fields, or null when no block was found.

#### **BlockWithTransactions**

response object parameters

Parameter Type Description hash string 32 Bytes - hash of the block. null when its pending block. parentHash string 32 Bytes - hash of the parent block. number number the block number. null when its pending block. logsBloom string 256 Bytes - the bloom filter for the logs of the block. null when its pending block. timestamp number the unix timestamp for when the block was collated. nonce string 8 Bytes - hash of the generated proof-of-work. null when its pending block. difficulty number integer of the difficulty for this block. gasLimit number the maximum gas allowed in this block. gasUsed number the total used gas by all transactions in this block. size integer the size of this block in bytes. miner string 20 Bytes - the address of the beneficiary to whom the mining rewards were given. transactions array Array of transaction objects, or 32 Bytes transaction hashes depending on the last given parameter.

# **Example Request and Response**

Prerequisite: You will need to install the Alchemy SDK before making requests with it.

The commands for installing it using npm or yarn are given below:

npm yarn npm install alchemy-sdk yarn add alchemy-sdk

### Request

Here is an example of how to make a getBlockWithTransactions request using the Alchemy SDK:

getblockwithtransactions.js // Imports the Alchemy SDK const {Alchemy ,Network }= require ("alchemy-sdk" );// Configures the Alchemy SDK const config = {apiKey: "alchemy-replit" ,// Replace with your API key network: Network .ETH\_MAINNET ,// Replace with your network };// Creates an Alchemy object instance with the config to use for making requests const alchemy = new Alchemy (config );const main = async ()=> {//Assign the hash to a variable let txHash = "0x92fc42b9642023f2ee2e88094df80ce87e15d91afa812fef383e6e5cd96e2ed3" //Call the method to return the block with transactions let response = await alchemy .core .getBlockWithTransactions (txHash )//Logging the response to the console console .log (response ) };main ();

### Response

#### Code Sandbox

You can test out the getBlockWithTransactions method using the code sandbox below:

## **Use Cases**

Here are some possible use cases for this method:

- Blockchain Explorer
- : When building a blockchain explorer, it is important to be able to retrieve detailed information about blocks and their transactions.
- getBlockWithTransactions
- can be used to fetch this information and display it to users.
- · Smart Contract Verification
- : When verifying the correctness of a smart contract execution, it may be necessary to retrieve the block and its transactions that triggered the execution.
- getBlockWithTransactions
- can be used to fetch this information and verify that the smart contract executed correctly.
- · Payment Processing
- : When processing payments on a blockchain, it may be necessary to retrieve the block and its transactions that confirm the payment.
- getBlockWithTransactions
- can be used to fetch this information and confirm that the payment was successfully processed.

# **Related Methods**

Here are the methods related to getBlockWithTransactions :

- getBlock
- : Returns the block from the network based on the provided block number or hash.
- getBlockNumber
- : Returns the result of executing the transaction, using call.

Updated 5 months ago

getBlock -SDK estimateGas - SDK Did this page help you?Yes No