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Debug API Quickstart

The Debug API provides deeper insights into transaction processing and on-chain activity.

To use the Debug API your Alchemy plan must be set to the Growth or Enterprise tiers. Upgrade your plan) for access.

/ 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; } .api_key_instruct_ban_lft 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; } .api_key_instruct_ban_lft h3!ast-child{ margin-bottom: 0; } .api_key_instruct_ban_lft pf font-size: 14px; line-height: 1.3; color: #000000; font-family: 'Inter', sans-serif; font-weight: 400; } .gt_startd_vbtn{ display: inline-block; color: #F5FFFF limportant; background: linear-gradient(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/

```
@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 Ift pl
          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?

Sign up or upgrade your plan for access. $\underline{\text{Get started for free}} \ \text{dont_have_api_sec_end}$

Introduction

The debug API gives you access to several non-standard RPC methods, which will allow you to inspect and debug transactions. The returned information includes the execution of the following:

- CREATE
- SUICIDE
- Variants of the
- CALLInput data
- Output data
- Gas usage
- Amount transferred
- Success status of individual actions

Debug API use cases

Common use cases for the Debug API come in all flavors. Below are popular ones:

Use case Description Endpoint Debug Trace Call Executes areth_call and returns number of possible traces for it. [debug_tracecall] https://docs.alchemy.com/reference/debug-tracecall) Debug Trace Block by Number Returns the traces executed in the block. [debug_traceBlockByNumber] (https://docs.alchemy.com/reference/debug-traceblockbynumber) Debug Trace Block by Number Returns the traces executed in the block. [debug_traceBlockByNumber] (https://docs.alchemy.com/reference/debug-traceblockbynumber)

Trace types

Type Parameter Description Transaction Trace call Tracer Trace of your transaction. State difference prestatetracer Ethereum state changed values of a transaction.

Trace actions types

CREATE

· Used to create a smart contract.

Example response

JSON {"type" :"CREATE" ,"from" :"0xe5cb067e90d5cd1f8052b83562ae670ba4a211a8" ,"to" :"0x3c9075f574edc2f630f918ebac5ccf1095d82cc2" ,"value" :"0x0" ,"gas" :"0x26384a" ,"gasUsed" :"0x26384a" ,"input"

."0x611e61600b55600c805460ff19166001179055662386f26fc10000600f5560c06040526005608081905264173539b7b760d91b60a090815262000046916012919062000178565b503480156200005457i

"0x60806040526004361061029f5760003560e01c8063715018a61161016a578063a45ba8e7116100d5578063e0a8085311610084578063f2fde38b11610061578063f2fde38b146107fd578063f56bce831 } Create parameter definitions

Parameter Description Example from The address that created the contract. 0xe5cb067e90d5cd1f8052b83562ae670ba4a211a8 gas Contract gas fee to create the contract. 0x26384a input Initialization code to create the contract. 0x6060604052604051602080610516833981016040... value The value sent to the contract. 0x0 to Location address of the new contract. 0x3c9075f574edc2f630f918ebac5ccf1095d82cc2 output The contract code. 0x60806040526004361061029f5760003560e01c806371501... gasUsed Required fee (gas) to create the contract. 0x26384a type Type of operation code (OPCODE). CREATE

SUICIDE

- SUICIDE
- is captured when a smart contract is destroyed. That is when the elfdestruct
- function of Solidity is used.
- SUICIDE
- transfers the contract's balance to the
- address
- specified in the

- function clearing on-chain memory
- The cleared memory is processed as a refund of the total gas cost to complete the transaction.

Example response

Parameter Description Example from The address of contract destroyed. 0x87051f6ba0562fdb0485763562bf34cb2ad705b1 to Address to send the remainder of contract balance. 0x0 gasUsed Required fee (gas) to execute the given trace action. 0x0 input null for SUICIDE 0x0 output null for SUICIDE 0x0 type Type of operation code (OPCODE). SUICIDE

- CALL
- is used for transferring ETH between externally owned accounts
- (EOAs).
- Also used to
- CALL
- a smart contract function.

Example response

:"0x000000000000000000000000087051f6ba0562fdb0485763562bf34cb2ad705b1" }] } CALL parameter definitions

amount. 0x0 gasUsed gas used to execute the transaction. 0x124b0 output The result of the smart contract function call. 0x calls Array of trace actions that were executed due to this trace action. [{...}, {...}] type Type of operation code (OPCODE). call

Helpful Resources

- What are EVM Traces?Trace API vs. Debug API
- trace call vs debug traceCall

Updated 5 months ago

trace call vs debug traceCall Debug API Endpoints Did this page help you?Yes No