

Event Trigger

Event Context

For event triggered typescript functions, use the `Web3FunctionEventContext` instead of the regular `Web3FunctionContext` on your `onRun` handler.

The context will then include `alog` property containing your full event log that you can parse and process.

Event Triggered Typescript Function example

...

```
event/index.ts Copy import{ Interface }from"@ethersproject/abi"; import{ Web3Function,Web3FunctionEventContext }from"@gelatonetwork/web3-functions-sdk";

constNFT_ABI=[ "event Transfer(address indexed from, address indexed to, uint256 indexed tokenId)", ];

Web3Function.onRun(async(context:Web3FunctionEventContext)=>{ // Get event log from Web3FunctionEventContext
const{log}=context;

// Parse your event from ABI constnft=newInterface(NFT_ABI); constevent=nft.parseLog(log);

// Handle event data const{from,to,tokenId}=event.args; console.log(Transfer of NFT #{tokenId}from{from}to{to}detected);

return{ canExec:false,message:Event processed{log.transactionHash}}; });
...
```

Testing locally

To test your event triggered typescript function, you can add `alog.json` file in your web3 function directory:

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Copy in the `alog.json` file the raw data of the event you want to test:

...

```
event/alog.json Copy { "blockNumber":48758053,
"blockHash":"0x6794a56583329794f184d50862019ecf7b6d8ba6b3210f68ca4b91a8fa81817d", "transactionIndex":29,
"removed":false, "address":"0xb74de3F91e04d0920ff26Ac28956272E8d67404D", "data":"0x", "topics":[
"0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef",
"0x0000000000000000000000000000000000000000000000000000000000000000",
"0x000000000000000000000000eec2ba9b9f0202c63bba29ea9a4ce5c23f9865fd",
"0x00000000000000000000000000000000000000000000000000000000000000001099" ],
"transactionHash":"0x2c500a55f5c24d587e73805975d91395634a971dca5939f43d34d774d0f7147b", "logIndex":343 }
...
```

The data in `alog.json` will be injected in your event context in local runs via CLI:

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Copy `npm run w3f test event/index.ts --logs`

...

...

Copy Web3Function running logs:

```
Transfer of NFT #4249 from 0x0000000000000000000000000000000000000000000000000000000000000000 to
0xeeC2ba9B9F0202c63bba29Ea9A4Ce5c23f9865FD detected
```

```
Web3Function Result: ✓ Return value: {"canExec":false,"message":"Event processed
0x2c500a55f5c24d587e73805975d91395634a971
```

...

