Understanding Web3 Functions

Determining your Needs

Off-chain Data or Computation?

Sometimes, automation tasks require data that isn't readily available on the blockchain, or they might need computations that are better performed off-chain. In such cases,Typescript Functions should be the choice.

All Checks On-chain?

If all the conditions necessary for your automation task can be directly verified on the blockchain, you have the option to select betweenTypescript Functions, Solidity Functions & Automated Transactions

Implementation path

Step Description 1. How you want to trigger your run? 2. Start by deciding on the type of trigger you want to use. (Time, event, or every block) 1. What to run? 2. * Typescript Function * Solidity Function * Transaction * 1. Task Creation 2. Create a Web3 Function task to allow the execution of typescript, solidity or transaction 1. Finalize & Monitor 2. Once you've defined your function ensure you monitor its execution to confirm that it works as expected. Make any necessary adjustments.

Core Features of Web3 Functions

Main features of Web3 Functions include Typescript Functions, Solidity Functions & Automated Transactions

Before jumping into the core features of the Web3 Functions, it is highly recommended that you first learn how you'd like to trigger your run. To learn more:

1page Trigger Types Learn more about each of the 3 actions that your trigger can run:

2page Typescript Function 3page Solidity Function 4page Automated Transactions

Pre-Requisite of Target Smart Contract

Smart contract functions in the target contract that can be automated should follow these properties:

- They need to be functions that are usually called by the development team or external keepers, not "user facing" functions called by users directly
- They need to be eitherpublic
- orexternal
- They do not have access restrictions like anonlyOwner
- modifier, unless the user's dedicatedmsg.sender
- address is whitelisted through the proxy module.
- They do not requiremsg.sender
- to betx.origin
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