Migration Guide ethers.js v5 to v6

How to migrate your code to ethers is v6 With the@gelatonetwork/relay-sdk version 5, the package usesethers is v6. In this guide, we will review the main changes related to the usage of therelay-sdk.

For a comprehensive list of changes when migrating fromethers.js v5 toethers.js v6, please consult thefficial documentation .

Creating the calldata:populateTransaction method

In all Relay requests, we send the calldata to be forwarded to the target contract. One way of creating this calldata was by invoking thepopulateTransaction method. The way this is done has changed fromethers v5 tov6 :ethers@v5

Copy // encoding increment method call constcontract=newethers.Contract(counter,abi,signer); const{data}=awaitcontract.populateTransaction.increment(); ethers@v6 Copy // encoding increment method call constcontract=newethers.Contract(counter,abi,signer); const{data}=awaitcontract.increment.populateTransaction(); **Providers** When instantiating a provider, either on the backend or frontend, you will have to update your code. This is because the packageethers.providers has been moved toethers. So the change would look like this:ethers@v5 ... Copy // Instantiating a JsonRpcProvider constprovider=ethers.providers.JsonRpcProvider() ethers@v6 Copy // Instantiating a JsonRpcProvider constprovider=newethers.JsonRpcProvider() In addition to the change mentioned above, the Web 3 Provider, which was used to instantiate the frontend provider ...

using(window.ethereum), is now calledBrowserProvider. So, you'll need to make the following update:ethers@v5

Copy // Instantiating a Web3Provider constprovider=newethers.providers.Web3Provider(window.ethereum) ...

ethers@v6

Copy // Instantiating a BrowserProvider constprovider=newethers.BrowserProvider(window.ethereum)

## ChainId

When querying thechainld from the provider inethers.js v5, the result was returned as a number. However, inv6, thechainld is returned as aBigInt . If you have code that relies on thechainId being a number, you'll need to update it to handle aBigInt instead.

Here's a simple example that may help you understand how to adapt your code:ethers@v5
Copy // ChainId constchainId=(awaitprovider.getNetwork()).chainId; constchainId=5// Goerli
ethers@v6
Copy // ChainId constchainId=(awaitprovider.getNetwork()).chainId; constchainId=5n// Goerli constchainId=BigInt(5)// Goerli
Examples

Please visit our examples  $GitHub\ repository$ , which showcases the usage of the new@gelatonetwork/relay-sdk v5 implementation for both frontend and backend.

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