RPC Urls

Summary

On DynamicContext, we provide direct access to RPC providers for EVM & Solana. The rpcProviders can be used to make RPC calls to the blockchain while also providing convenience methods without going through a wallet.

Each provider will use the RPC configured in the Dashboard if present, otherwise they fall back to public RPCs urls. By default, all EVM and Solana networks have public default providers as shown in this table:

Network Public RPC Url Ethereum https://cloudflare-eth.com Optimism https://mainnet.optimism.io Gnosis Chain https://rpc.gnosischain.com Aurora https://mainnet.aurora.dev Polygon https://polygon-rpc.com Palm https://palm-mainnet.infura.io/v3/3a961d6501e54add9a41aa53f15de99b BNB Smart Chain https://arb1.arbitrum.io/rpc Solana https://api.mainnet-beta.solana.com

Dashboard Configuration

To enter your provider url for a given network:

1. Go to theConfigurations
2. page in your Dashboard.
3. Click on the chain to open the details tab
4. Click the down down arrow to expand a network
5. Enter your Provider Url
6. Click the test button to check url

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Usage

RPC Providers

You get the provider from the DynamicContext.

const { rpcProviders} = useDynamicContext ( ) ; The rpcProvider is an object with the following fields:

export type DynamicRPCProviders = { evmDefaultProvider: EvmRpcProvider| undefined ; evmProviders: EvmRpcProvider[ ] | undefined ; getEvmRpcProviderByChainId : (chainId: number) => EvmRpcProvider| undefined ; solanaDefaultProvider: SolanaRpcProvider| undefined ; solanaProviders: SolanaRpcProvider[ ] | undefined ; } ;

EVM Providers methods

Expanding on the EVM providers, there are 3 fields/methods:

1. evmDefaultProvider:
2. This returns a provider for Ethereum Mainnet if mainnet is enabled
3. evmProviders:
4. Is a full list of all EVM providers that have been configured
5. getEvmRpcProviderByChainId
6. : a convenience method that lets you retrieve a provider for a specific Chain ID

export type EvmRpcProvider = { chainId: number ; chainName: string ; provider: ethers. providers. JsonRpcProvider; } ;

Solana Providers

Expanding on the Solana providers, there are 2 fields/methods:

1. solanaDefaultProvider:

2. Returns the provider for Solana Mainnet (101)
3. **solanaProviders:**Is a full list of all Solana providers that have been configured

These providers are also available on the WalletConnector throughgetRpcProvider

```
export type SolanaRpcProvider = { chainId? : number ; chainName: string ; provider: Connection; } ;
```

Example

Below is a simple example to fetch an arbitrary ENS mapping:

```
const mainnetProvider= rpcProviders. evmDefaultProvider?. provider; const ensAddress= mainnetProvider. resolveName (
'myname.eth' ) ; console . log ( 'address for myname.eth' , ensAddress) ;
```

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