

Enable API request forwarding

For Optimism JSON-RPC methods, you can request failover protection by adding the failover header to your API request using `cURL` , `Web3.js` , `Ethers.js` , or any other language of your choice.

For more information about this feature, including our partner and their privacy information, see [Failover protection](#) .

Request

In the code tabs, the `eth_blockNumber` method is used as an example.

- `cURL`
- `Web3.js`
- `Ethers.js`

```
curl https://optimism-mainnet.infura.io/v3/YOUR-API-KEY \-X POST \-H "Enable-Failover: true" \-d '{"jsonrpc":"2.0","method":"eth_blockNumber","params":[],"id":1}' const
```

```
{
Web3
}
=
require ( 'web3' ) ; const https =
require ( 'https' ) ;
const options =
{ headers :
{ "Enable-Failover" :
"true" , } , } ;
const provider =
new
https . Agent ( options ) ;
const web3 =
new
Web3 ( new
Web3 . providers . HttpProvider ( 'https://optimism-mainnet.infura.io/v3/YOUR-API-KEY' ,
{
agent : provider } ) ) ;
web3 . eth . getBlockNumber ( ) . then ( console . log ) ; const ethers =
require ( 'ethers' ) ; const fetch =
require ( 'node-fetch' ) ;
class
InfuraJsonRpcProvider
extends
ethers . providers . JsonRpcProvider
{ constructor ( network , apiKey )
```

```

{ super ( network , apiKey ) ; this . fetchFunc
=
async
( url , json , processFunc )
=>
{ const response =
await
fetch ( url ,
{ method :
'POST' , body : json . body , headers :
{ 'Content-Type' :
'application/json' , 'Enable-Failover' :
'true' } } ) ;
const text =
await response . text ( ) ; const fetchJsonResponse =
{ jsonrpc : json . jsonrpc , id : json . id , result :
JSON . parse ( text ) . result , error :
JSON . parse ( text ) . error } ;
return
processFunc ( fetchJsonResponse ) ; } ; }
const provider =
new
InfuraJsonRpcProvider ( 'https://optimism-mainnet.infura.io/v3/YOUR-API-KEY' ) ;
provider . getBlockNumber ( ) . then ( ( blockNumber )
=>
{ console . log ( blockNumber ) ; } ) ;

```

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