Quickstart

This quickstart guide will help you set up and make calls on the ZKsync Era network using the Infura endpoints.

Don't have an Infura account? Sign up for our free plan and start using the ZKsync Era network!

Sign up

Prerequisites

Ensure you have anAPI key with the ZKsync Era networked enabled.

Make calls

cURL

Run the following command in your terminal, replacingYOUR-API-KEY with your actual Infura API key:

curl https://zksync-mainnet.infura.io/v3/YOUR-API-KEY \ -X POST \ -H "Content-Type: application/json" \ -d '{"jsonrpc":"2.0","method":"eth_blockNumber","params":[],"id":1}'

Node (JavaScript)

In these examples, you'll usenpm as your package manager.

Node Fetch

1. In your project folder, install thenode-fetch
2. package using npm:
3. npm i node-fetch
4. Create your JavaScript file and copy the following code:
5. ReplaceYOUR-API-KEY
6. with your actual Infura API key.
7. index.js
8. import
9. fetch
10. from
11. 'node-fetch'
12. ;
13. fetch
14. (
15. "https://zksync-mainnet.infura.io/v3/YOUR-API-KEY"
16. ,
17. {
18. method
19. :
20. "POST"
21. ,
22. headers
23. :
24. {
25. "Content-Type"
26. :
27. "application/json"
28. }
29. ,
30. body
31. :
32. JSON
33. .
34. stringify
35. (
36. {
37. jsonrpc
38. :
39. "2.0"

```
,
method
:
"eth_blockNumber"
,
params
:
[
]
,
id
:
1
}
)
}
)
.
then
(
response
=>
response
.
json
(
)
)
.
then
(
data
=>
{
console
.
log
(
data
)
;
}
)
.
catch
(
error
=>
{
console
.
error
(
error
)
;
}
)
;
```

Run the code using the following command:

```
node index.js
```

Axios

1. In your project folder, install the Axios package using npm:
2. npm i axios
3. Create your JavaScript file and copy the following code:
4. ReplaceYOUR-API-KEY

with your actual Infura API key.
index.js

```
const
axios
=
require
(
'axios'
)
;
axios
.
post
(
'https://zksync-mainnet.infura.io/v3/YOUR-API-KEY'
,
{
jsonrpc
:
'2.0'
,
method
:
'eth_blockNumber'
,
params
:
[
]
,
id
:
1
}
)
.
then
(
response
=>
{
console
.
log
(
response
.
data
)
;
}
)
.
catch
(
error
=>
{
console
.
error
(
error
)
;
}
)
;
```

73. Run the code using the following command:
74. node index.js

Ethers

1. In your project folder, install theethers
2. package using npm:
3. npm install ethers
4. Create your JavaScript file and copy the following code:
5. ReplaceYOUR-API-KEY
6. with your actual Infura API key.
7. index.js
8. const
9. ethers
10. =
11. require
12. (
13. 'ethers'
14.)
15. ;
16. const
17. provider
18. =
19. new
20. ethers
21. .
22. providers
23. .
24. JsonRpcProvider
25. (
26. 'https://zksync-mainnet.infura.io/v3/YOUR-API-KEY'
27.)
28. ;
29. provider
30. .
31. getBlockNumber
32. (
33.)
34. .
35. then
36. (
37. blockNumber
38. =>
39. {
40. console
41. .
42. log
43. (
44. blockNumber
45.)
46. ;
47. }
48.)
49. .
50. catch
51. (
52. error
53. =>
54. {
55. console
56. .
57. error
58. (
59. error
60.)
61. ;
62. }
63.)

64. ;
65. Run the code using the following command:
66. node index.js

Python

1. In your project folder, install therequests
2. library:
3. pip install requests
4. Create your Python file and copy the following code:
5. ReplaceYOUR-API-KEY
6. with your actual Infura API key.
7. index.py
8. import
9. requests
10. import
11. json
12. url
13. =
14. 'https://zksync-mainnet.infura.io/v3/YOUR-API-KEY'
15. payload
16. =
17. {
18. "jsonrpc"
19. :
20. "2.0"
21. ,
22. "method"
23. :
24. "eth_blockNumber"
25. ,
26. "params"
27. :
28. [
29.]
30. ,
31. "id"
32. :
33. 1
34. }
35. headers
36. =
37. {
38. 'content-type'
39. :
40. 'application/json'
41. }
42. response
43. =
44. requests
45. .
46. post
47. (
48. url
49. ,
50. data
51. =
52. json
53. .
54. dumps
55. (
56. payload
57.)
58. ,
59. headers
60. =
61. headers
62.)

63. .
64. json
65. (
66.)
67. print
68. (
69. response
70.)
71. Run the code using the following command:
72. python index.py

Next steps

Now that you have successfully made a call to the ZKsync Era network, you can explore more functionalities and APIs provided by Infura. Here are some suggestions:

- Explore other ZKsync Era APIs
- : Infura supports a wide range of APIs. You can find more information in the JSON-RPC API method documentation
- .
- Try out different networks
- : Infura supports multiple networks including Arbitrum, Polygon, Optimism, IPFS, and more.
- Monitor your usage
- : Keep an eye on your usage on the Infura dashboard
- to ensure you're not hitting your rate limits.

Remember, the Infura community is here to help. If you have any questions or run into any issues, check out the Infura community for help and answers to common questions.

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