

# Quickstart

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

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## Prerequisites

Ensure you have an [API key](#) with the Arbitrum network enabled.

## Make calls

### cURL

Run the following command in your terminal. Replace YOUR-API-KEY with your actual Infura API key.

```
curl https://arbitrum-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 use [npm](#) as your package manager.

#### Node Fetch

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

```

40. method
41. :
42. "eth_blockNumber"
43. ,
44. params
45. :
46. [
47. ]
48. ,
49. id
50. :
51. 1
52. }
53. )
54. }
55. )
56. .
57. then
58. (
59. response
60. =>
61. response
62. .
63. json
64. (
65. )
66. )
67. .
68. then
69. (
70. data
71. =>
72. {
73. console
74. .
75. log
76. (
77. data
78. )
79. ;
80. }
81. )
82. .
83. catch
84. (
85. error
86. =>
87. {
88. console
89. .
90. error
91. (
92. error
93. )
94. ;
95. }
96. )
97. ;
98. Run the code using the following command:
99. 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. Replace YOUR-API-KEY
5. with your actual Infura API key.

```

6. index.js
7. const
8. axios
9. =
10. require
11. (
12. 'axios'
13. )
14. ;
15. axios
16. .
17. post
18. (
19. 'https://arbitrum-mainnet.infura.io/v3/YOUR-API-KEY'
20. ,
21. {
22. jsonrpc
23. :
24. '2.0'
25. ,
26. method
27. :
28. 'eth_blockNumber'
29. ,
30. params
31. :
32. [
33. ]
34. ,
35. id
36. :
37. 1
38. }
39. )
40. .
41. then
42. (
43. response
44. =>
45. {
46. console
47. .
48. log
49. (
50. response
51. .
52. data
53. )
54. ;
55. }
56. )
57. .
58. catch
59. (
60. error
61. =>
62. {
63. console
64. .
65. error
66. (
67. error
68. )
69. ;
70. }
71. )
72. ;
73. Run the code using the following command:

```

74. node index.js

## Ethers

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

65. 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://arbitrum-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 Arbitrum network, you can explore more functionalities and APIs provided by Infura. Here are some suggestions:

- Explore other Arbitrum 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 Ethereum, Linea, Polygon, Optimism, 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.

Last updated on Apr 19, 2024 [Previous Arbitrum](#) [Next Supported networks](#)