Quickstart

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

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

[Sign up](#)

Prerequisites

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

Make calls

cURL

Run the following command in your terminal, replacingwith your actual Infura API key:

curl https://scroll-mainnet.infura.io/v3/ \ -X POST \ -H "Content-Type: application/json" \ -d '{"jsonrpc": "2.0", "method": "eth_blockNumber", "params": [], "id": 1}' note In Windows Powershell, quotations incurl commands can behave differently than expected. We recommend using Postman on Windows systems.

Postman

Call the JSON-RPC methods using[Postman](#) .

ClickRun in Postman to fork the collection and make requests.

info Set the correct[variables](#) for your API key and network before running requests.

Node (JavaScript)

In these examples, you'll use[npm](#) 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. Replace
6. with your actual Infura API key.
7. index.js
8. import
9. fetch
10. from
11. "node-fetch"
12. fetch
13. (
14. "https://scroll-mainnet.infura.io/v3/"
15. ,
16. {
17. method
18. :
19. "POST"
20. ,
21. headers
22. :
23. {
24. "Content-Type"
25. :
26. "application/json"
27. ,
28. }
29. ,
30. body

31. :
32. JSON
33. .
34. stringify
35. (
36. {
37. jsonrpc
38. :
39. "2.0"
40. ,
41. method
42. :
43. "eth_blockNumber"
44. ,
45. params
46. :
47. [
48.]
49. ,
50. id
51. :
52. 1
53. ,
54. }
55.)
56. ,
57. }
58.)
59. .
60. then
61. (
62. (
63. response
64.)
65. =>
66. response
67. .
68. json
69. (
70.)
71.)
72. .
73. then
74. (
75. (
76. data
77.)
78. =>
79. {
80. console
81. .
82. log
83. (
84. data
85.)
86. }
87.)
88. .
89. catch
90. (
91. (
92. error
93.)
94. =>
95. {
96. console
97. .
98. error

99. (
100. error
101.)
102. }
103.)
104. Run the code using the following command:
105. node index.js

Axios

1. In your project folder, install theaxios
2. package using npm:
3. npm i axios
4. Create your JavaScript file and copy the following code:
5. Replace
6. with your actual Infura API key.
7. index.js
8. const
9. axios
10. =
11. require
12. (
13. "axios"
14.)
15. axios
16. .
17. post
18. (
19. "https://scroll-mainnet.infura.io/v3/"
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. .
42. then
43. (
44. (
45. response
46.)
47. =>
48. {
49. console
50. .
51. log
52. (
53. response
54. .
55. data
56.)
57. }
58.)

59. .
60. catch
61. (
62. (
63. error
64.)
65. =>
66. {
67. console
68. .
69. error
70. (
71. error
72.)
73. }
74.)
75. Run the code using the following command:
76. 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. Replace
6. with your actual Infura API key.
7. index.js
8. const
9. ethers
10. =
11. require
12. (
13. "ethers"
14.)
15. const
16. provider
17. =
18. new
19. ethers
20. .
21. providers
22. .
23. JsonRpcProvider
24. (
25. "https://scroll-mainnet.infura.io/v3/"
26.)
27. provider
28. .
29. getBlockNumber
30. (
31.)
32. .
33. then
34. (
35. (
36. blockNumber
37.)
38. =>
39. {
40. console
41. .
42. log
43. (
44. blockNumber
45.)
46. }
47.)

48. .
49. catch
50. (
51. (
52. error
53.)
54. =>
55. {
56. console
57. .
58. error
59. (
60. error
61.)
62. }
63.)
64. Run the code using the following command:
65. node index.js

Web3.js

1. In your project folder,[install the latest version of the web3.js library](#)
2. Create your JavaScript file and copy the following code:
3. Replace
4. with your actual Infura API key.
5. index.js
6. var
7. {
8. Web3
9. }
10. =
11. require
12. (
13. "web3"
14.)
15. var
16. provider
17. =
18. "https://scroll-mainnet.infura.io/v3/"
19. var
20. web3Provider
21. =
22. new
23. Web3
24. .
25. providers
26. .
27. HttpProvider
28. (
29. provider
30.)
31. var
32. web3
33. =
34. new
35. Web3
36. (
37. web3Provider
38.)
39. web3
40. .
41. eth
42. .
43. getBlockNumber
44. (
45.)
46. .
47. then

48. (
49. (
50. result
51.)
52. =>
53. {
54. console
55. .
56. log
57. (
58. "Latest Scroll Block is "
59. ,
60. result
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. Replace
6. with your actual Infura API key.
7. index.py
8. import
9. requests
10. import
11. json
12. url
13. =
14. "https://scroll-mainnet.infura.io/v3/"
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 Scroll network, you can explore more functionalities and APIs provided by Infura. Here are some suggestions:

- Explore other Scroll 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, Arbitrum, 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.