

Testnets

Flashbots operates on Goerli and Sepolia, so that searchers can test Flashbots without risking real funds.

Bundle Relay URLs

Network URL Mainnet <https://relay.flashbots.net> Goerli <https://relay-goerli.flashbots.net> Sepolia <https://relay-sepolia.flashbots.net>

Examples

Here's how to setup the Flashbots Bundle Provider in Ethers to use Goerli or Sepolia:

```
const provider =
new
ethers . getDefaultProvider ( "goerli" ) ; // uncomment the line below to use Sepolia // const provider = new
ethers.getDefaultProvider("sepolia");

const authSigner =
new
ethers . Wallet ( '0x2000000000000000000000000000000000000000000000000000000000000000' , provider ) ;

const flashbotsProvider =

await flashbots . FlashbotsBundleProvider . create ( provider , authSigner , // use "https://relay-sepolia.flashbots.net" for
Sepolia "https://relay-goerli.flashbots.net" , "goerli" ) ; Sending bundles works the same as sending bundles on the mainnet.
For example this will simulate a bundle and if it is successful then send a batch of 10:

const wallet =
new
ethers . Wallet ( SOME_PRIVATE_KEY ) ; const signedTransactions =

await flashbotsProvider . signBundle ( [ { signer : wallet , transaction :

{ to :

"0xf1a54b075fb71768ac31b33fd7c61ad8f9f7dd18" , gasPrice :

10 , gasLimit :

21000 , chainId :

5 , value :

0 , } , } , { signer : wallet , transaction :

{ to :

"0xf1a54b075fb71768ac31b33fd7c61ad8f9f7dd18" , gasPrice :

10 , gasLimit :

21000 , chainId :

5 , value :

0 , } , } , ] ) ;

const blockNumber =

await provider . getBlockNumber ( ) ;

console . log ( new

Date ( ) ) ; const simulation =
```

```
await flashbotsProvider . simulate ( signedTransactions , blockNumber +
1 ) ; console . log ( new
Date ( ) ) ;
// Using TypeScript discrimination if
( "error"
in simulation )
{ console . log ( Simulation Error: { simulation . error . message } ) ; }
else
{ console . log ( ` Simulation Success: { blockNumber }
{ JSON . stringify ( simulation , null , 2 ) } ` ) ; } console . log ( signedTransactions ) ;
for
( var i =
1 ; i <=
10 ; i ++ )
{ const bundleSubmission = flashbotsProvider . sendRawBundle ( signedTransactions , blockNumber + i ) ; console . log (
"submitted for block # " , blockNumber + i ) ; } console . log ( "bundles submitted" ) ; The reason why we submit bundles for
the next 10 blocks is because Flashbots only runs a small portion of the validators on Goerli. We are more likely to have a
bundle included if we submit bundles for several blocks into the future. Edit this page Last updated on Feb 13, 2024 Previous
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```