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 updatedonJan 30, 2024[Previous Searcher Reputation](#) [Next EIP-1559 Support](#)