

How to extend an existing Warp Route

Using the Hyperlane CLI

After deploying your warp route, you may want to extend it to a new chain. Extending a warp route involves deploying a new token contract on the target chain and enrolling existing tokens with it.

You can extend an existing warp route using the [Hyperlane CLI](#).

Prerequisites

- The warp route config.* For new deployments, this config may take the filepath of `CURRENT_DIR/configs/warp-route-deployment.yaml`
- - .
- - For existing deployment, the config can be generated by using `hyperlane warp read`
- - if it exists in the Registry.
- The warp route token symbol.* The token symbol can be found onchain, or in your local Hyperlane Registry. By default, it is written to `HOME/.hyperlane/deployments/warp_routes/`
- - .
- Access to the private key that currently owns the warp route.

warning Gnosis Safe Users: The EOA that owns the warp route must either be a Safe signer or [delegate](#) to be able to propose update transactions. If you already have the warp config, skip to [Step 1](#).

To generate the warp route config using the Hyperlane CLI, locate your token symbol on the chain on which it is deployed:

```
hyperlane warp read
```

```
--symbol
```

```
< tokenSymbol
```

You should see a similar warp routes selector:

Hyperlane Warp Reader

Multiple warp routes found for symbol eth ? Select from matching warp routes ETH/ethereum-viction ETH/basesepolia ETH/holesky-sepolia ➤ ETH/basesepolia-sepolia ETH/beta-gamma You can then choose the warp route to extend.

After running `hyperlane warp read`, the CLI will display a config similar to the following:

```
basesepolia : mailbox :
```

```
"0x6966b0E55883d49BFB24539356a2f8A673E02039" owner :
```

```
"0xf39Fd6e51aad88F6F4ce6aB8827279cFfB92266" name :
```

```
"Ether" symbol :
```

```
"ETH" decimals :
```

```
18 totalSupply :
```

```
"1" remoteRouters : "11155111" :
```

```
"0x8A73F6E36735d8C4b9A00Af910746173050B754E" type :
```

```
"synthetic" sepolia : mailbox :
```

```
"0xfFAEF09B3cd11D9b20d1a19bECca54EEC2884766" owner :
```

```
"0xf39Fd6e51aad88F6F4ce6aB8827279cFfB92266" name :
```

```
"Ether" symbol :
```

"ETH" decimals :

18 totalSupply :

0 remoteRouters : "84532" :

"0x26243aaD2d03AAbafaCE785808Ae64fc32aFB8A1" type :

"native" This particular config has 2 chains: basesepolia and sepolia. This means messages can be relayed between both chains.

By default, warp read will save the output to CURRENT_DIR/configs/warp-route-deployment.yaml . Follow these steps to add a chain to the existing warp route.

Step 1: Configuration

Update the warp-route-deployment.yaml by adding a config for the new chain.

warp-route-deployment.yaml sepolia: mailbox: "0xfAEF09B3cd11D9b20d1a19bECca54EEC2884766" owner: "0xf39Fd6e51aad88F6F4ce6aB8827279cFfB92266" name: "Ether" symbol: "ETH" decimals: 18 totalSupply: 0 remoteRouters: "84532": "0x26243aaD2d03AAbafaCE785808Ae64fc32aFB8A1" type: "native" basesepolia: mailbox: "0x6966b0E55883d49BFB24539356a2f8A673E02039" owner: "0xf39Fd6e51aad88F6F4ce6aB8827279cFfB92266" name: "Ether" symbol: "ETH" decimals: 18 totalSupply: "1" remoteRouters: "11155111": "0x8A73F6E36735d8C4b9A00Af910746173050B754E" type: "synthetic" + holesky: + mailbox: "0x46f7C5D896bbeC89bE1B19e4485e59b4Be49e9Cc" + owner: "0xf39Fd6e51aad88F6F4ce6aB8827279cFfB92266" + name: "Ether" + symbol: "ETH" + decimals: 18 + totalSupply: "1" + type: "synthetic" warning EOA Users: The extended config owner must match the EOA address from the prerequisites step to avoid deployment failure.

Step 2: Apply

Using the CLI, execute the command applicable to your warp route owner setup:

- EOA
- Gnosis Safe

hyperlane warp apply \ --symbol

< tokenSymbol

\ --config

(pwd) /configs/warp-route-deployment.yaml Use this template to define and save a Gnosis Safe strategy:

basesepolia : submitter : type :

"gnosisSafe" chain :

"basesepolia" safeAddress :

"0x518489F9ed41Fc35BCD23407C484F31897067ff0" sepolia : submitter : type :

"gnosisSafe" chain :

"sepolia" safeAddress :

"0x518489F9ed41Fc35BCD23407C484F31897067ff0" holesky : submitter : type :

"gnosisSafe" chain :

"holesky" safeAddress :

"0x1f9090aaE28b8a3dCeaDf281B0F12828e676c326" In this case, each chain is a Gnosis Safe strategy with their respective Safe addresses. The Safe proposals must be accepted to complete the warp route extension.

hyperlane warp apply \ --symbol

< tokenSymbol

\ --config

(pwd) /configs/warp-route-deployment.yaml \ --strategy gnosis-chain-strategy.yaml After executing, you should see a batch

of transactions executed on chain, and a final message indicating that the warp config has been updated.

Step 3: Confirm

To confirm that the warp route was successfully extended using the Hyperlane CLI, run the following command with your token symbol on the chain it is deployed on:

```
hyperlane warp read
```

```
--symbol
```

```
< tokenSymbol
```

After running `warp read`, confirm that the warp route has been extended:

baseSepolia : mailbox :

"0x6966b0E55883d49BFB24539356a2f8A673E02039" owner :

"0xf39Fd6e51aad88F6F4ce6aB8827279cFf92266" name :

"Ether" symbol :

"ETH" decimals :

18 totalSupply :

0 remoteRouters : "17000" :

"0x9B18AfD7aB869C6B011F44638ff71786447B785B" "11155111" :

"0x4e63147e72d029Eb8b37F375B3837B2644622686" type : native sepolia : mailbox :

"0xfFAEF09B3cd11D9b20d1a19bECca54EEC2884766" owner :

"0xf39Fd6e51aad88F6F4ce6aB8827279cFf92266" name :

"Ether" symbol :

"ETH" decimals :

18 totalSupply :

"0" remoteRouters : "17000" :

"0x9B18AfD7aB869C6B011F44638ff71786447B785B" "84532" :

"0xB38cc797Ccc6D8763439a07CEa052AF253281de6" type :

"synthetic" holesky : mailbox :

"0x46f7C5D896bbeC89bE1B19e4485e59b4Be49e9Cc" owner :

"0xf39Fd6e51aad88F6F4ce6aB8827279cFf92266" name :

"Ether" symbol :

"ETH" decimals :

18 totalSupply :

"0" remoteRouters : "84532" :

"0xB38cc797Ccc6D8763439a07CEa052AF253281de6" "11155111" :

"0x4e63147e72d029Eb8b37F375B3837B2644622686" type :

"synthetic" [Edit this page](#) [Previous Warp Routes: Fast Native Transfers via Custom Gas Tokens](#) [Next Deploy an SVM Warp Route](#)