How to Transfer Ownership of Your Hyperlane Warp Route

This guide provides a step-by-step guide to transferring ownership of your Hyperlane Warp Route. It also explains the responsibilities, security considerations, and configuration options that come with owning a Warp Route.

Warp Route Ownership Overview

Before transferring ownership of your Warp Route, it's important to understand what this ownership entails. Ownership grants control over configuration settings, such as the Interchain Security Module (ISM), Validator options, and other parameters critical to security.

info Once a mailbox is set up on the chain, anyone can deploy a Warp Route. Warp Routes are commonly deployed by a few different groups - the Abacus Works team, the asset issuer, the chain team, or the application team.

Overview of Ownership

- Responsibilities:
- As the owner, you take on responsibilities that include managing security configurations, like the ISM and Validator settings, to meet your specific security and operational goals.
- Security & Autonomy
- : Ownership choices often come down to security and control preferences. We strongly recommend using a multisig like a Gnosis Safe for any production setups. Teams can choosefull ownership
- for complete autonomy, orjoint ownership
- on the multisig to share security management. Joint ownership enables collaborative decision-making on critical updates, which can increase trust for users and developers.

ISM, Validator, and Relayer Options

When configuring or transferring a Warp Route, owners have flexibility in managing ISM, Validator, and Relayer settings:

- ISM Customization
- : Each Warp Route may require a tailored ISM configuration depending on security needs. Owners can set up a custom ISM or use Hyperlane's default setup.
- Validator Options
- : Ownership allows you to choose or manage your Validator set. Hyperlane can handle Validator responsibilities by default, making it optional to run your own.
- Relayer Support
- : Hyperlane provides Relayer services by default, but teams can operate their own Relayers for more control over security, reliability, and costs. This customization enables teams to tailor message handling to fit specific performance, compliance, or operational requirements.

Warp Route Ownership Transfer Guide

Using the Hyperlane CLI

One of the quickest way to transfer a warp route ownership is by using theHyperlane CLI .

Prerequisites

- The warp route config.* For new deployments, this config may take the filepath ofCURRENT_DIR/configs/warp-route-deployment.yaml
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    - .
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    - For existing deployment, the config can be generated by usinghyperlane warp read
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    - 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 toHOME/.hyperlane/deployments/warp_routes/
-
    - .
- Access to the private key that currently owns the warp route.

info If you followed the[Deploy a Warp Route](#) guide, you may have deployed a warp route with the owner set to the single private key. In production, it is advisable to use a multisig. To confirm using the Hyperlane CLI, locate your token symbol and the chain it is deployed on:

hyperlane warp read

--symbol

< tokenSymbol

You should be able to select the warp route that you wish to update the ownership for.

After runningwarp read , you should see a similar config withowner set to private key's address:

yourchain : mailbox :

"0x979Ca5202784112f4738403dBec5D0F3B9daabB9" owner :

"0xf39Fd6e51aad88F6F4ce6aB8827279cffFb92266" ... By default,warp read will save the output toCURRENT_DIR/configs/warp-route-deployment.yaml . Follow these steps using the CLI to transfer the existing ownership to another address.

Step 1: Configuration

Updateowner address in thewarp-route-deployment.yaml

warp-route-deployment.yaml yourchain: mailbox: '0x979Ca5202784112f4738403dBec5D0F3B9daabB9' - owner: '0xf39Fd6e51aad88F6F4ce6aB8827279cffFb92266' + owner: '0xd8dA6BF26964aF9D7eEd9e03E53415D37aA96045' interchainSecurityModule: address: '0xd54d32cD6a62482497252D59E6cCC1445fF0b92d' type: staticAggregationIsm modules: - owner: '0xf39Fd6e51aad88F6F4ce6aB8827279cffFb92266' address: '0xcE512189fF1BD41186E9eDda02BF321Fb1FC6eAc' type: defaultFallbackRoutingIsm domains: {} threshold: 1 name: Ether symbol: ETH decimals: 18 totalSupply: 0 type: native

Step 2: Apply

Using the CLI, execute by providing the token symbol and warp route config:

hyperlane warp apply \ --symbol

< tokenSymbol

\ --config

(pwd) /configs/warp-route-deployment.yaml 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 owner was successfully updated using the Hyperlane CLI, run the following command with your token symbol and the chain it is deployed on:

hyperlane warp read

--symbol

< tokenSymbol

After runningwarp read , you should see a similar config with the now updatedowner :

yourchain : mailbox :

"0x979Ca5202784112f4738403dBec5D0F3B9daabB9" owner :

"0xd8dA6BF26964aF9D7eEd9e03E53415D37aA96045" interchainSecurityModule : address :

"0x8af9445d8A3FbFBd1D5dF185B8a4533Ab060Cf36" type : staticAggregationIsm modules : -

owner :

"0xe738d6e51aad88F6F4ce6aB8827279cffFb94876" address :

"0xBe0232d5d45f9aD8322C2C4F84c39e64302Cd996" type : defaultFallbackRoutingIsm domains :

{ } threshold :

1 name : Ether symbol : ETH decimals :

18 totalSupply :

0 type : native By completing these steps, you have successfully transferred and verified ownership of your Warp Route to a new address. [Edit this page](#) [Previous How to Remove Trusted Relayer ISM from Warp Route](#)[Next Create your own Hook & ISM](#)