Spy

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A Spy, in the wormhole context, is a daemon that subscribes to the gossiped messages in the [Guardian Network](#) .

The messages available on over gossip are things like

- [VAAs](#)
- [Observations](#)
- Guardian Heartbeats
-

The source for the Spy is available on [Github](#)

The Spy has no persistence layer built in, so typically its paired with something like Redis or a SQL database to record relevant messages

Use

To start a Spy locally, run the following docker command.

Testnet Mainnet ```

Copy dockerrun--platform=linux/amd64\ -p7073:7073\ --entrypoint/guardiandghcr.io/wormhole-foundation/guardiand:latest\ spy\ --nodeKey/node.key\ --spyRPC"[::]:7073"\ --network/wormhole/testnet/2/1\ --bootstrap"/dns4/t-guardian-01.nodes.stable.io/udp/8999/quic/p2p/12D3KooWCW3LGUtkCVkHZmVSZHzL3C4WRKWfqAiJPz1NR7dT9Bxh,/dns4/t-guardian-02.nodes.stable.io/udp/8999/quic/p2p/12D3KooWJXA6goBCiWM8ucjzc4jVUBSqL9Rri6UpjHbkMPErz5zK"

Copy dockerrun--platform=linux/amd64\ -p7073:7073\ --entrypoint/guardiandghcr.io/wormhole-foundation/guardiand:latest\ spy\ --nodeKey/node.key\ --spyRPC"[::]:7073"\ --network/wormhole/mainnet/2\ --bootstrap"/dns4/wormhole-v2-mainnet-bootstrap.xlabs.xyz/udp/8999/quic/p2p/12D3KooWNQ9tVrcb64tw6bNs2CaNrUGPM7yRrKvBBheQ5yCyPHKC,/dns4/wormhole.mcf.rocks/udp/8999/quic/p2p/12D3KooWDZVv7BhZ8yFLkarNdaSWaB43D v2-mainnet-bootstrap.staking.fund/udp/8999/quic/p2p/12D3KooWG8obDX9DNi1KUwZNu9xkGwfKqTp2GFwuuHpWZ3nQruS1"

``` Once running, a [gRPC](#) client (i.e. your program) can subscribe to a filtered stream of messages.

To generate a client for the gRPC service use [this proto spec file](#) .

If using JavaScript/TypeScript, the [Spydk](#) makes setting up a client easier.

See Also

The [relayer engine](#) implements a client and persistence layer for messages received from a Spy subscription.

Last updated2 months ago

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