

# Connect to a Sui Network

Sui has Mainnet, Devnet, and Testnet networks available. You can use one of the test networks, Devnet or Testnet, to experiment with the version of Sui running on that network. You can also spin up a [local Sui network](#) for local development.

The Sui Testnet and Devnet networks consist of several validator nodes to validate each network's transactions. Clients send transactions and read requests via this endpoint: `https://fullnode..sui.io:443` using [JSON-RPC](#).

You can [request test SUI tokens](#) through the Sui [devnet-faucet](#) and [testnet-faucet](#) Discord channels, depending on which version of the network you use. If connected to Localnet, use cURL to request tokens from your [local faucet](#). The coins on these networks have no financial value. There is no faucet service for Mainnet.

See announcements about Sui in the [#announcements](#) Discord channel.

See the [terms of service](#) for using Sui networks.

Testnet and Devnet data persistence is not guaranteed. Devnet data is wiped regularly as part of scheduled software updates. The data on Testnet persists through the regular update process, but might be wiped when necessary. Testnet data wipes are announced ahead of time.

For more information about the release schedule of Sui networks, see [Sui Network Release](#).

Sui provides [Sui command line interface \(CLI\)](#) to interact with Sui networks:

First, [Install Sui](#). After you install Sui, [request SUI test tokens](#) through Discord for the network you are using: [Devnet](#) or [Testnet](#). If connected to Localnet, use cURL to request tokens from your [local faucet](#).

To check whether Sui is already installed, run the following command:

If Sui is installed, the command returns the path to the Sui binary. If Sui is not installed, it returns `sui not found`.

See the [Sui Releases](#) page to view the changes in each Sui release.

If you previously ran `sui genesis` to create a local network, it created a Sui client configuration file (`client.yaml`) that connects to localhost at `http://0.0.0.0:9000`. See [Connect to a custom RPC endpoint](#) to update the `client.yaml` file.

To connect the Sui client to a network, run the following command:

If you receive the `sui-client` help output in the console, you already have a `client.yaml` file. See [Connect to a custom RPC endpoint](#) to add a new environment alias or to switch the currently active network.

The first time you start Sui client without having a `client.yaml` file, the console displays the following message:

Press `y` and then press `Enter`. The process then requests the RPC server URL:

Press `Enter` to connect to Sui Testnet. To use a custom RPC server, Sui Devnet, or Sui Mainnet, enter the URL to the correct RPC endpoint and then press `Enter`.

If you enter a URL, the process prompts for an alias for the environment:

Type an alias name and press `Enter`.

Press `0`, `1`, or `2` to select a key scheme and then press `Enter`.

Sui returns a message similar to the following (depending on the key scheme you selected) that includes the address and 12-word recovery phrase for the address:

If you previously used `sui genesis` with the `force` option (`-f` or `--force`), your `client.yaml` file already includes two RPC endpoints: localnet at `http://0.0.0.0:9000` and devnet at `https://fullnode.devnet.sui.io:443`. You can view the defined environments with the `sui client envs` command, and switch between them with the `sui client switch` command.

If you previously installed a Sui client that connected to a Sui network, or created a local network, you can modify your existing `client.yaml` file to change the configured RPC endpoint. The `sui client` commands that relate to environments read from and write to the `client.yaml` file.

To check currently available environment aliases, run the following command:

The command outputs the available environment aliases, with (active) denoting the currently active network.

To add a new alias for a custom RPC endpoint, run the following command. Replace values in <> with values for your installation:

To switch the active network, run the following command:

If you encounter an issue, delete the Sui configuration directory ( `~/sui/sui_config` ) and reinstall the latest [Sui binaries](#) .

## Sui CLI

Sui provides [Sui command line interface \(CLI\)](#) to interact with Sui networks:

First, [Install Sui](#) . After you install Sui, [request SUI test tokens](#) through Discord for the network you are using: [Devnet](#) or [Testnet](#) . If connected to Localnet, use cURL to request tokens from your [local faucet](#) .

To check whether Sui is already installed, run the following command:

If Sui is installed, the command returns the path to the Sui binary. If Sui is not installed, it returns sui not found .

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If you previously ran sui genesis to create a local network, it created a Sui client configuration file (client.yaml) that connects to localhost at http://0.0.0.0:9000 . See [Connect to a custom RPC endpoint](#) to update the client.yaml file.

To connect the Sui client to a network, run the following command:

If you receive the sui-client help output in the console, you already have a client.yaml file. See [Connect to a custom RPC endpoint](#) to add a new environment alias or to switch the currently active network.

The first time you start Sui client without having a client.yaml file, the console displays the following message:

Press y and then press Enter . The process then requests the RPC server URL:

Press Enter to connect to Sui Testnet. To use a custom RPC server, Sui Devnet, or Sui Mainnet, enter the URL to the correct RPC endpoint and then press Enter .

If you enter a URL, the process prompts for an alias for the environment:

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Press 0 , 1 , or 2 to select a key scheme and then press Enter .

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## Environment set up

First, [Install Sui](#) . After you install Sui, [request SUI test tokens](#) through Discord for the network you are using: [Devnet](#) or [Testnet](#) . If connected to Localnet, use cURL to request tokens from your [local faucet](#) .

To check whether Sui is already installed, run the following command:

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If you previously ran sui genesis to create a local network, it created a Sui client configuration file (client.yaml) that connects to localhost at http://0.0.0.0:9000 . See [Connect to a custom RPC endpoint](#) to update the client.yaml file.

To connect the Sui client to a network, run the following command:

If you receive the sui-client help output in the console, you already have a client.yaml file. See [Connect to a custom RPC endpoint](#) to add a new environment alias or to switch the currently active network.

The first time you start Sui client without having a client.yaml file, the console displays the following message:

Press y and then press Enter . The process then requests the RPC server URL:

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To switch the active network, run the following command:

If you encounter an issue, delete the Sui configuration directory ( ~/.sui/sui\_config ) and reinstall the latest [Sui binaries](#) .

## Configure Sui client

If you previously ran sui genesis to create a local network, it created a Sui client configuration file (client.yaml) that connects to localhost at http://0.0.0.0:9000 . See [Connect to a custom RPC endpoint](#) to update the client.yaml file.

To connect the Sui client to a network, run the following command:

If you receive the sui-client help output in the console, you already have a client.yaml file. See [Connect to a custom RPC endpoint](#) to add a new environment alias or to switch the currently active network.

The first time you start Sui client without having a client.yaml file, the console displays the following message:

Press `y` and then press `Enter` . The process then requests the RPC server URL:

Press `Enter` to connect to Sui Testnet. To use a custom RPC server, Sui Devnet, or Sui Mainnet, enter the URL to the correct RPC endpoint and then press `Enter` .

If you enter a URL, the process prompts for an alias for the environment:

Type an alias name and press `Enter` .

Press `0` , `1` , or `2` to select a key scheme and then press `Enter` .

Sui returns a message similar to the following (depending on the key scheme you selected) that includes the address and 12-word recovery phrase for the address:

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The command outputs the available environment aliases, with `(active)` denoting the currently active network.

To add a new alias for a custom RPC endpoint, run the following command. Replace values in `<>` with values for your installation:

To switch the active network, run the following command:

If you encounter an issue, delete the Sui configuration directory ( `~/sui/sui_config` ) and reinstall the latest [Sui binaries](#) .