

Test a Snap

You can test your Snap by hosting it locally using `yarn start`, installing it in Flask, and calling its API methods from a dapp.

For end-to-end Snap testing in a Jest environment, use the [@metamask/snaps-jest](#) package as follows.

Steps

1. Install @metamask/snaps-jest

Install the `@metamask/snaps-jest` package into your Snap project using [Yarn](#) or [npm](#) :

```
yarn
```

```
add -D @metamask/snaps-jest or
```

```
npm i @metamask/snaps-jest
```

2. Configure @metamask/snaps-jest

The easiest way to configure this package is to add it to your Jest configuration as a preset. In the `jest.config.js` file, add the following:

```
jest.config.js module . exports
```

```
=
```

```
{ preset :
```

`"@metamask/snaps-jest" , } ;` This automatically configures Jest to use the `@metamask/snaps-jest` environment, and to use the `@metamask/snaps-jest` matchers. You can then run the `jest` command as usual.

note `@metamask/snaps-jest` assumes the Snap is built in the directory you run Jest from. If you use a different directory, you can specify the path using the [root](#) option, or by running your own HTTP server. It's currently not possible to use `@metamask/snaps-jest` with a Snap that is not built. If you don't use the package as a preset, you can alternatively add the `@metamask/snaps-jest` environment and matchers to your Jest configuration manually:

```
jest.config.js module . exports
```

```
=
```

```
{ testEnvironment :
```

```
"@metamask/snaps-jest" , setupFilesAfterEnv :
```

```
[ "@metamask/snaps-jest/dist/cjs/setup.js" ] , } ;
```

 You can pass any [jest options](#) to the test environment by adding `testEnvironmentOptions` property to your Jest configuration. For example:

```
jest.config.js module . exports
```

```
=
```

```
{ preset :
```

```
"@metamask/snaps-jest" , testEnvironmentOptions :
```

```
{ // Options go here. } , } ;
```

 All options are optional.

3. Use @metamask/snaps-jest

Use the package by calling any of the [API methods](#) . You can:

- [Install a Snap.](#)
- [Send a transaction to the Snap.](#)
- [Run a cronjob in the Snap.](#)
- [Interact with user interfaces.](#)
- [Mock the response of a network request.](#)
- [Close the testing page.](#)

You can also use [Jest matchers](#) to assert that a response from a Snap matches an expected value.

