

This is a breakdown of how to upload and host a static website within a canister on your NNS.

This was not created by a Definity, Motoko or Internet Computer code expert.

I am a retired website designer / graphic designer that is doing this just to help the average person who may want to host there site on ICP.

Personally, I have found it much cheaper and secure to host on ICP.



If you manage to break your computer through this process, congratulations! I do not know how you would manage to do such a thing.

Please record the event so everyone else can have a good laugh.



Getting Started

Create new canister
In NNS



Create Canister

Link Canister

Install DFX on Local
Computer through Terminal



If running Mac silicon probably also run this first: [softwareupdate --install-rosetta](#)
`sh -ci "$(curl -fsSL https://internetcomputer.org/install.sh)"`

Create new Local
Developer ID
Which is Basically Your
Local Principal ID



`dfx identity new <identity_name>`

Example:
`dfx identity new cheezyguy`

Get Local ID
that you just Created

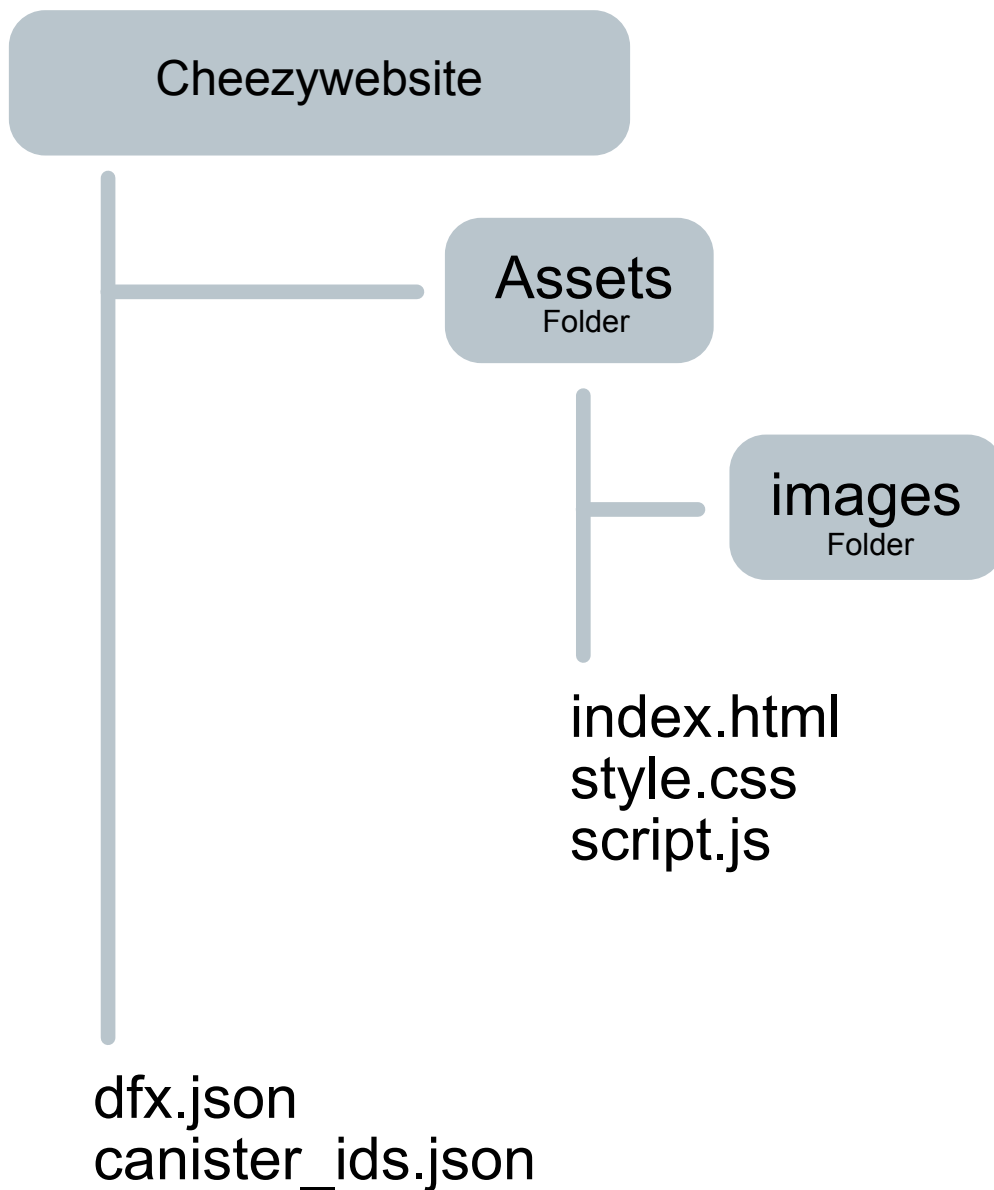


`dfx identity get-principal`

Example may look similar to this:

`ghfjd-5hfhf-djdj6-55fg-hfhg-tgwwp-77hggg-gf68-fh65-hj78v-sf5`

Local Project Folder Structure



Everything within the [Assets] folder will be uploaded when you later run the deploy command. Treat the assets folder like a .zip file that you would upload to wordpress.



Creating & Linking ID's

Share of
Wisdom

Computer Principal ID

```
dfx identity get-principal
```

Copy To

Add Controller

Copy your local computer Principal ID which you can get by running the Terminal code above and paste it in the [Add Controller] text field.

IMPORANT: Navigate to your project folder directory in TERMINAL before running the [add-controller] command below.

```
cd cheesywebsite
```

Now Copy
Canister
Controller ID

Controllers

```
blah-blah-blah-blah-blah-blah-blah-blah-blah-code
```

Add Controller

Add to your Local Computer
Controller ID

```
dfx wallet add-controller blah-blah-blah-blah-  
blah-blah-blah-blah-blah-blah-code
```

All of this copying ID's back and forth sets up a secure link between your local computer and your this specific canister.

Copy Canister ID to
canister_ids.json

Canister ID

```
"website": {  
  "ic": "blah-blah-blah-code"  
}
```

```
8YG  
hxx6h-r...lxa-cai  
17.063 T Cycles  
Running  
9.22 MB
```

You need 2 files aside from your original website assets folder in your project directory.

```
{
```

canister_ids.json (This file will contain the canister ID that you want to upload the contents of this folder to.

```
"website": {  
  "ic": "blah-blah-blah-code-here"  
}
```

dfx.json (This file tells dfx to upload only the contents of the (assets) folder to the canister which in this example website has all the website project contents. The assets folder can have subfolder without the need of including them here.

```
{  
  "canisters": {  
    "website": {  
      "type": "assets",  
      "source": ["assets"]  
    }  
  }  
}
```

Upload Website



```
dfx deploy --network ic --no-wallet
```

Finally Navigate to your project folder in TERMINAL by using the CD command.

Example: `CD cheezywebsite`

Then run the [deploy] command above to upload your local site to your canister. Once TERMINAL finishes uploading your site, it will give you the link to that site which looks something like this:

<https://hxx6h-raaaa-aaaag-aclxa-cai.icp0.io>

Update Website



```
dfx deploy --network ic --no-wallet
```

To update your site at anytime, just repeat the above step. Open TERMINAL, navigate to your project folder and run the [deploy] command again.

NOTES: The [--no-wallet] command basically tells DFX that you are using a canister that has cycles.

Multiple Websites

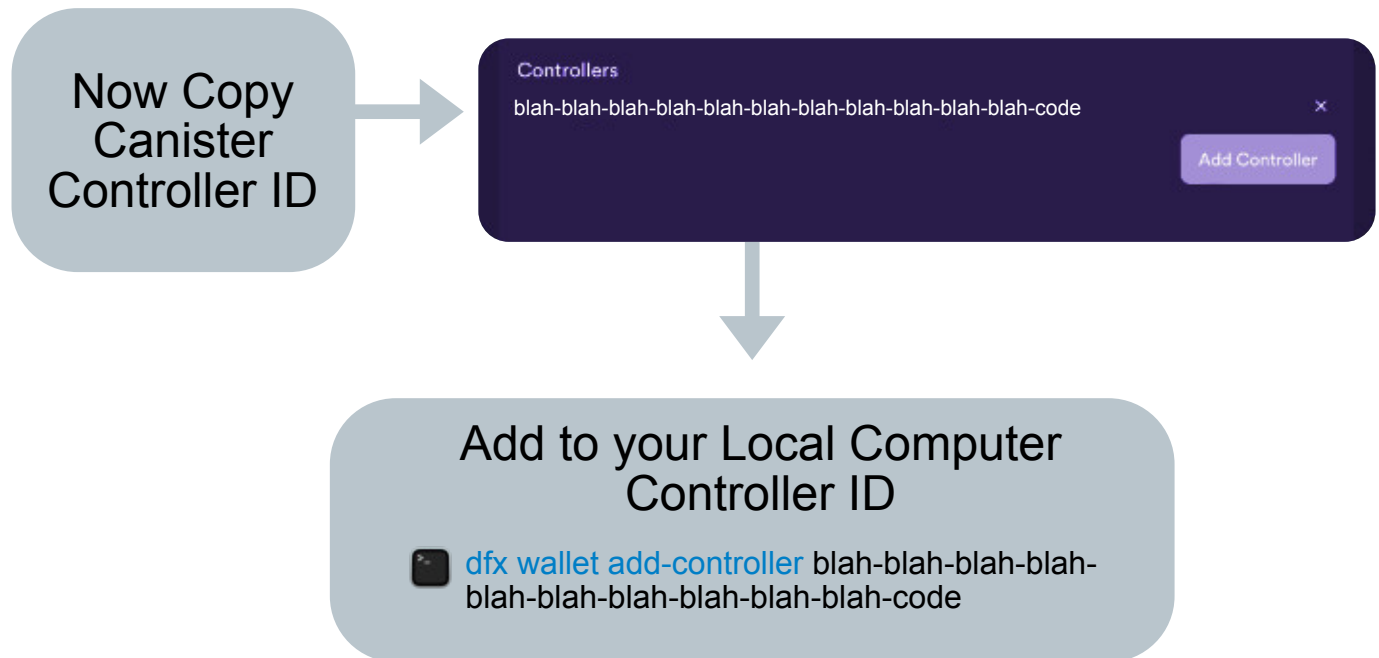
Once you have established your first canister and successfully uploaded to it, you are set to add more canisters and websites. For each additional website, you would just [create a new canister] and local project folder link you did previously.

The only TERMINAL command that you really need to run in order to add more canisters now is to link your [Controller ID] to your local project folder.

IMPORTANT: Navigate to your new project folder directory in TERMINAL before running the [add-controller] command below.

```
cd cheesywebsite2
```

May need to run this command below if DFX stop running or if you change your controller within your canister
`dfx start --clean --background`



NOTES: If you want to update any of your websites in the future, you would just navigate to the project folder of that site in TERMINAL and run the deploy command again.

```
dfx deploy --network ic --no-wallet
```

You can find more detailed information on the internet computer website below:

<https://internetcomputer.org/docs/current/developer-docs/getting-started/accounts>

**If this has really helped, feel free to leave a tip below.
A decent amount of coffee went into putting this together.**

Blessings, Harley Neal

ICP ACCOUNT:

[1b0db497c83c34cd3fc1a1a4b46d2d67a900f8ad6a2471169a004b3d9314331f](#)

