**The file system manager is a node-red custom node to handle most of the file system operations:**

- This node is not on a npm repo so install the node by putting the folder node-red-fsmanager inside the root of your node-red installation at .nodered/node\_modules/

- Then go inside the node-red-fsmanager folder and run npm I to install the module.

- Restart node-red

How to use the node:

This node expects the a msg.payload that will contain an object the necessary data to perform a file system operation and for every call the data described below is mandatory:

**!!! IMPORTANTE -**  in order to keep your file system safe guarded it’s important to understand the need and importance of the key "**fileSystemPath**". The fileSystemPath is were do you want to establish the **root path for your file manager node**, so that this way you can target a root path that is not dangerous to your server.

**For the sake of example of this manual will going to set root of the file system to the user /home folder**

**"fileSystemPath" : "/home"**

**The inbound msg should be formated like the examples below: msg containing:**

* **List from the storage root folder**

{"fileSystemPath" : "/home","fsop":"listAll"}

this will list the contents of the entire file system assuming that root is /home

* **List the selected folder from the listhPath relative to the fileSystemPath**

{"fileSystemPath" : "/home","fsop":"listDir", "listPath":"path/to/list"}

this will list the contents of a specific folder assuming that root is /home, so in the case of this example you’ll be listing the contents of /home/path/to/list.

* **Create a folder**

{"fileSystemPath" : "/home","fsop":"createDir", "dirPath":"path/to/newfolder"}

this will create a folder assuming that root is /home, so in the case of this example you’ll be creating the folder newfolder at /home/path/to/newfolder.

* **Remove an object**

{"fileSystemPath" : "/home","fsop":"removeObject", "removePath":"path/to/object"}

this will remove a folder or a file assuming that root is /home, so in the case of this example you’ll be removing the folder or file called object at /home/path/to/object.

* **Rename an object**

{"fileSystemPath" : "/home","fsop":"renameObject", "renameFrom":"path/to/object", "renameTo":"object-new-name"}

this will rename a folder or a file assuming that root is /home, so in the case of this example y ou’ll be renaming the folder or file called object at path/to/object to object-new-name, so in this case the result would be a file or folder called object-new-name at /home/path/to/ object- new- name.

* **Move an object**

{"fileSystemPath" : "/home","fsop":"moveObject", "moveFrom":"path/to/object", "moveTo":"new-path/to/object"}

this will move a folder or a file assuming that root is /home, so in the case of this example you’ll be moving the folder or file called object at path/to/object to new-path/to/object, so in this case the result would be that the file or folder called object at /home/path/to/object would be moved to /home/new-path/to/object.

* **Copy an object**

{"fileSystemPath" : "/home","fsop":"copyObject", "copyFrom":"path/to/object", "copyTo":"new-path/to/object"}

this will copy a folder or a file assuming that root is /home, so in the case of this example you’ll be copying the folder or file called object at path/to/object to new-path/to/object, so in this case the result would be that the file or folder called object at /home/path/to/object would be copied to /home/new-path/to/object.

* **Read a file**

{"fileSystemPath" : "/home","fsop":"readFile", "filePath":"path/to/file"}

this will read the contents of a file assuming that root is /home, so in the case of this example you’ll be reading the contents of the file at /home/path/to/file.

* **Write to a file**

{"fileSystemPath" : "/home","fsop":"writeFile", "filePath":"path/to/file", "fileData":"hello world!"}

this will write the content to a file assuming that root is /home, so in the case of this example you’ll be writing the text "hello world!" to the file at /home/path/to/file.

How to use the examples:

- drag and drop the fs-test-folders at the root you have choose to your file system, in the case of our example we have choosen /home.

- Import the flows into node red and run trough them.

Please refer to the example-flow.json and use the fs-test-folders folder at the node-red-fsmanager folder for the examples.

KR, Bruno