

Append to a text file

This Action will append to a text file as determined by the file name and folder path you specify. Once a file's size reaches 2MB a new file will be created.

File name

Filename

Will create a new file if one with this title doesn't exist

Add ingredient

Content

FilenameNoExt
via Dropbox FileUrl
ModifiedDate

Use
br> to add line breaks

Add ingredient

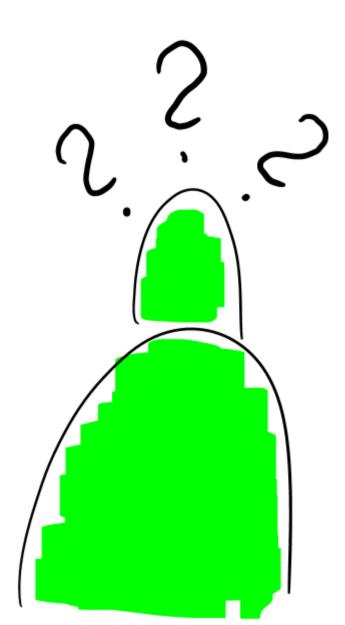
Dropbox folder path

IFTTT/Dropbox

Format: some/folder/path (defaults to "IFTTT")

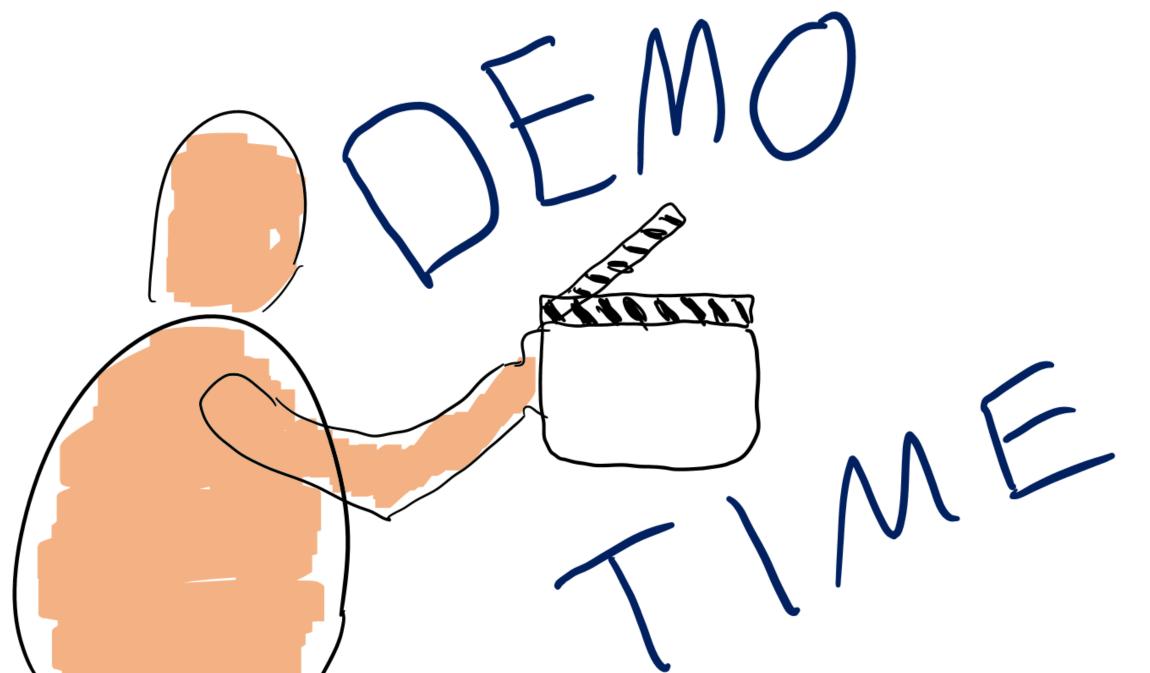
Add ingredient

Create action



Challenges

- Connecting (Cloud-) Services in an easy way
- Complete Customizability
- Sharing of user scripts
- No public credentials





- Cloudscripting
- Credentials
- FileDescriptionBrowser



HEROKU

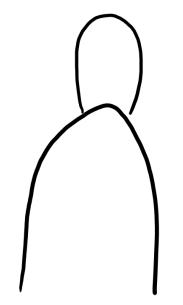
- API
- Action Files
- Watcher Files
- Config templates



- Logs
- Credentials
- Action Config
- Watcher Config

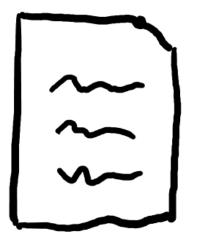
Architecture 8

User



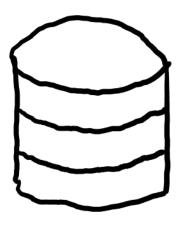


Heroku

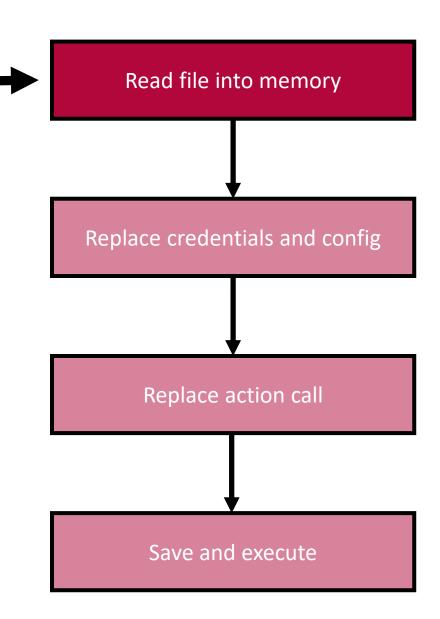


watcher.json (template)

mLab

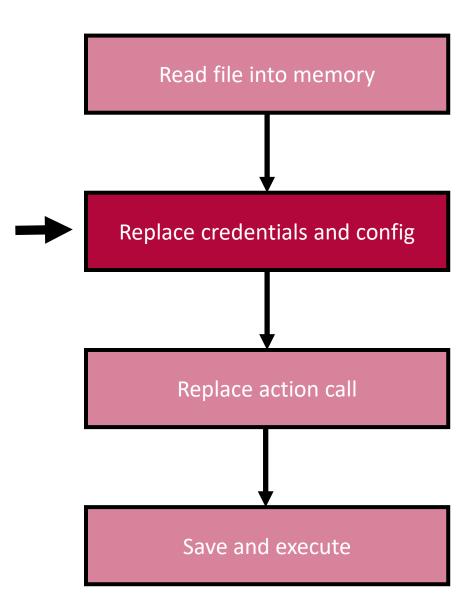


user-specific data



```
const PATH = config[path];
const ENDING = config[type];
var dbx = new Dropbox({ accessToken: credentials[dropbox] });
var Dropbox = require('dropbox');

// Poll Dropbox ...
// Check for conditions specified in configErr
...
runActions(entry.name.substring(0, entry.name.length - 4))
...
```



```
const PATH = 'PhD/papers';
const ENDING = 'pdf';
var dbx = new Dropbox({ accessToken: 'RoA23VAA[...]' });
var Dropbox = require('dropbox');

// Poll Dropbox ...
// Check for conditions specified in configErr
...
runActions(entry.name.substring(0, entry.name.length - 4))
...
```

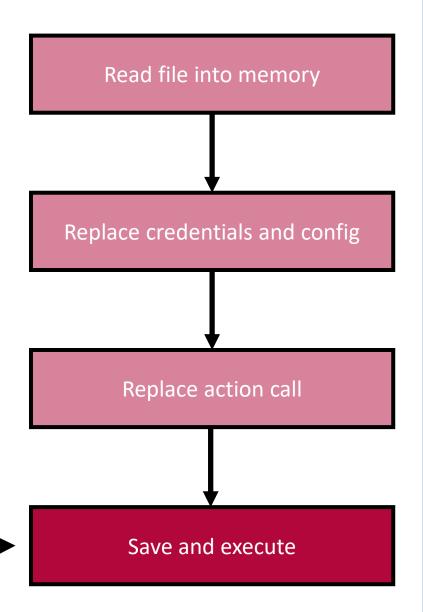
 Loads user-specific credentials and configuration from DB

```
Read file into memory
Replace credentials and config
     Replace action call
      Save and execute
```

```
const PATH = 'PhD/papers';
const ENDING = 'pdf';
var dbx = new Dropbox({ accessToken: 'RoA23VAA[...]' });
var Dropbox = require('dropbox');

// Poll Dropbox ...
// Check for conditions specified in configErr
...
utils.runActions(entry.name.substring(0, entry.name.length - 4
...
```

- Loads action config from DB
- Spawns child process
- Pipes stdout to parent process



```
const PATH = 'PhD/papers';
const ENDING = 'pdf';
var dbx = new Dropbox({ accessToken: 'RoA23VAA[...]' });
var Dropbox = require('dropbox');

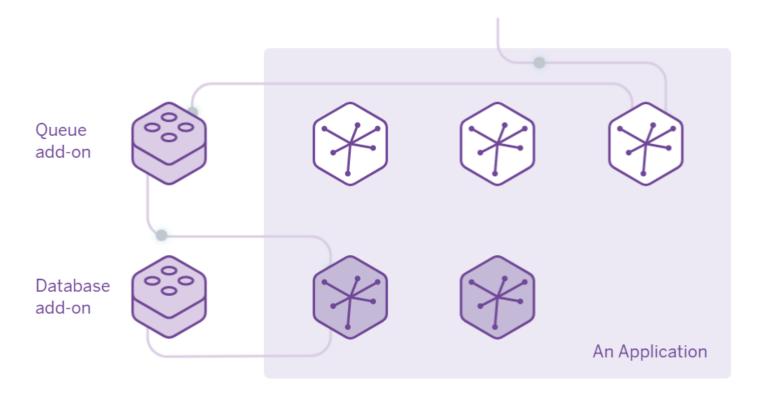
// Poll Dropbox ...
// Check for conditions specified in configErr
...
utils.runActions(entry.name.substring(0, entry.name.length - 4
...
```

configuration

Gets saved in temporary file

Execution with user-specific

Heroku: Not the best long-term choice



Web dynos

Worker dynos

 A saved file is only persisted while the dyno is active (which might sleep from time to time)





Future Work

- Graphical Representation
- Outside Lively
- Support different script versions
- Install Packages