

# Outset 4

The Swift port



# What is outset



A utility that automatically processes packages and scripts during boot, user logins, or on demand.

# What is outset



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<https://github.com/chilcote>

# How it Works

- Collection of launch daemons and agents
- Standard folders to contain scripts and packages
- Keeps track of "run once" state for boot and login

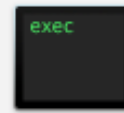


# Why it is still relevant

## < Login Items

### Allow in the Background

Applications add background items to perform tasks when the application isn't open, such as checking for software updates or syncing data. Turning off a background item may prevent these tasks from being completed.



install\_monitor

Item from unidentified developer.



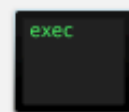
ssh\_banner.sh

This item is managed by your organisation.



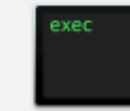
touch

Item from unidentified developer.



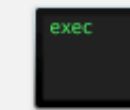
uninstall

Item from unidentified developer.



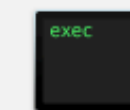
supervisor

This item is managed by your organisation.



supervisor

Item from unidentified developer.



supervisor

This item is managed by your organisation.



supervisor

This item is managed by your organisation.



firstLoginRun.sh

This item is managed by your organisation.



firstLoginUserAgent.sh

This item is managed by your organisation.

# Why it is still relevant

< Login Items

## Allow in the Background

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## Outset

This item is managed by your organisation.

# Porting to Swift

## Goals:

- Replicate existing behaviour
- Update to be more modern (UserDefaults)
- Additional Features
- Additional Logging

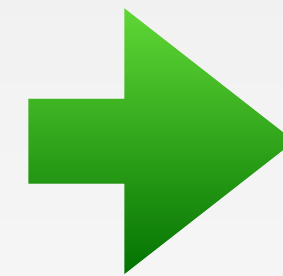
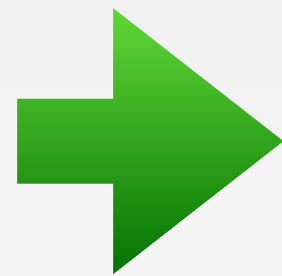
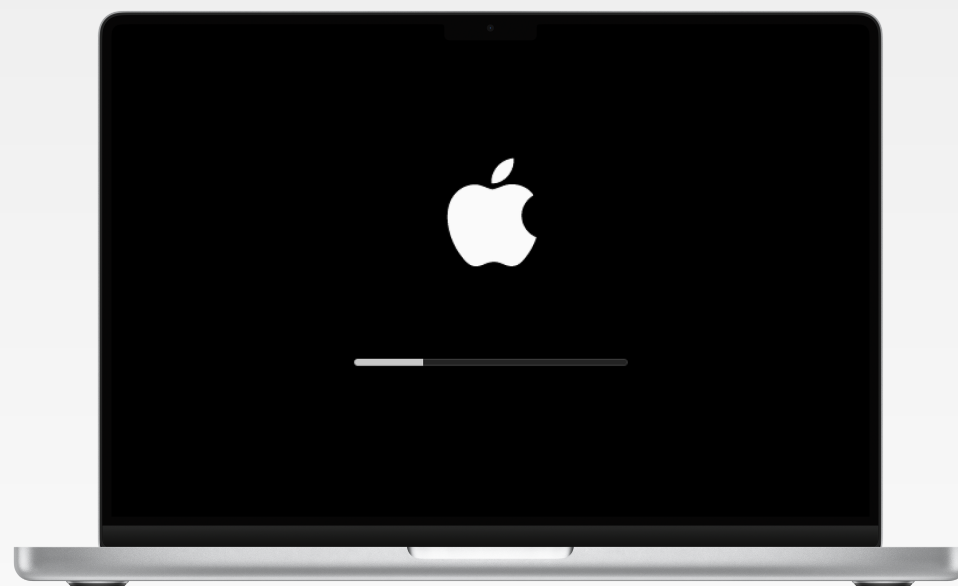
# Mac Admins Open Source

<https://github.com/macadmins/macadmins.io>

@macadminsopensource@hachyderm.io

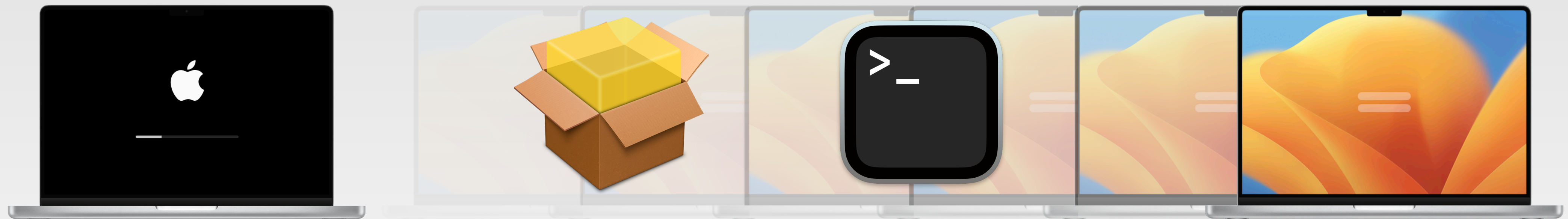
#macadmins-opensource

# Functionality



# Boot

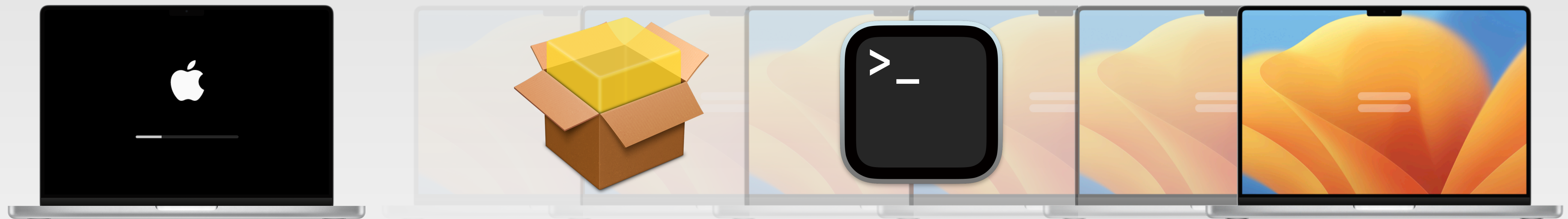
`/usr/local/outset/boot-once/`





# Boot

`/usr/local/outset/boot-every/`



# Login Window

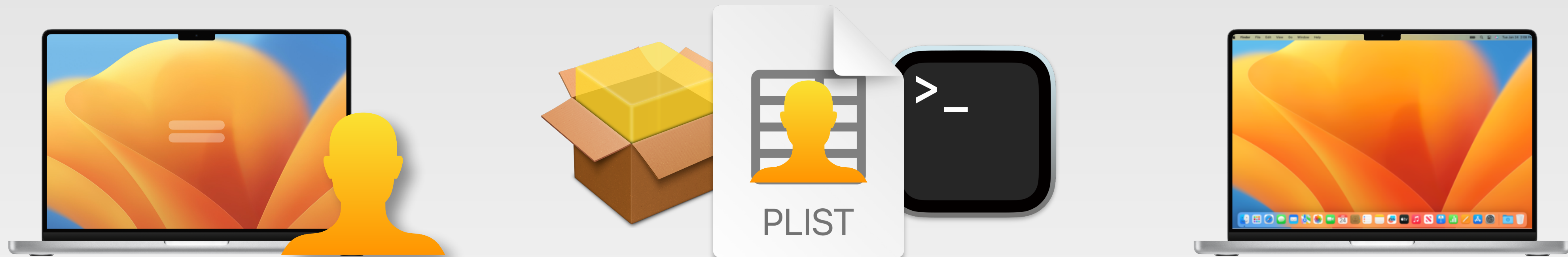
`/usr/local/outset/login-window/`





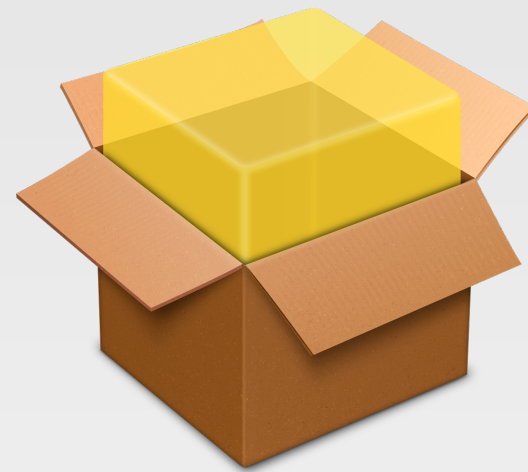
# Login

`/usr/local/outset/login-once/`



# Login

```
/usr/local/outset/login-every/
```



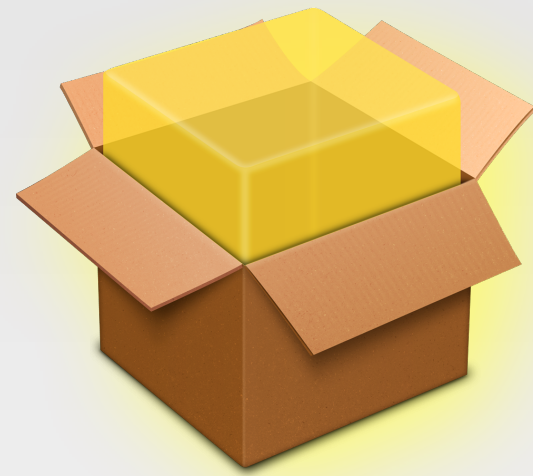
# Login

`/usr/local/outset/login-privileged-once/`



# Login

`/usr/local/outset/login-privileged-every/`



# Login Once Overrides

```
/usr/local/outset/outset --add-override /usr/local/outset/login-once/foo.sh
```

```
/usr/local/outset/outset --remove-override /usr/local/outset/login-once/foo.sh
```



# Exclude Users

```
/usr/local/outset/outset --add-ignored-user FOO
```

```
/usr/local/outset/outset --remove-ignored-user FOO
```

# Security

```
/usr/local/outset/outset --compute-sha /usr/local/outset/login-every/foo.sh
```

# Security

```
/usr/local/outset/outset --compute-sha /usr/local/outset/login-every/foo.sh
```

```
SHA256 for file /usr/local/outset/login-every/foo.sh:
```

```
6591abcec4e0bdcc75c9509cee7f6ddae0313fef00da9d19586431b88eada436
```



# Security

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>sha256sum</key>
  <dict>
    <key>/usr/local/outset/login-every/foo.sh</key>
    <string>6591abcec4e0bdcc75c9509cee7f6ddae0313fef00da9d19586431b88eada436</string>
    ...
  </dict>
</dict>
</plist>
```

# Security

**io.macadmins.Outset**



# Preferences

**io.macadmins.Outset**



# Logging



```
log stream --predicate 'subsystem == "io.macadmins.Outset"' --info --debug
```

```
/usr/local/outset/logs/outset.log
```

# Thank You 😊



[\*\*https://github.com/macadmins/outset/\*\*](https://github.com/macadmins/outset/)



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**#outset**

**bartreardon**