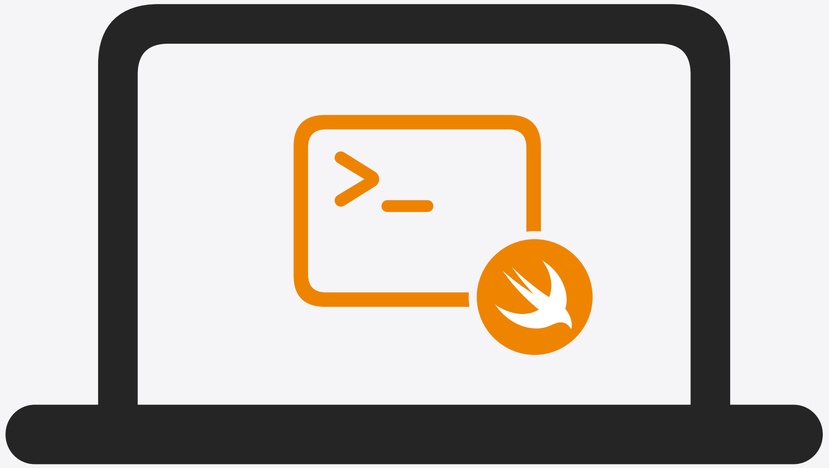
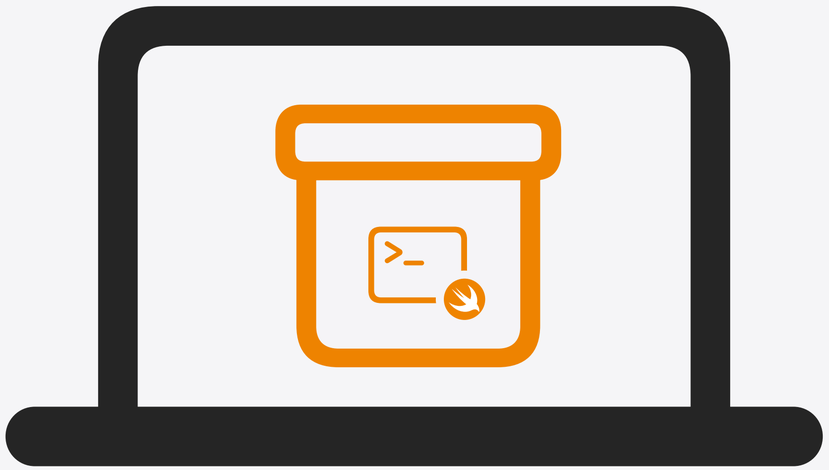
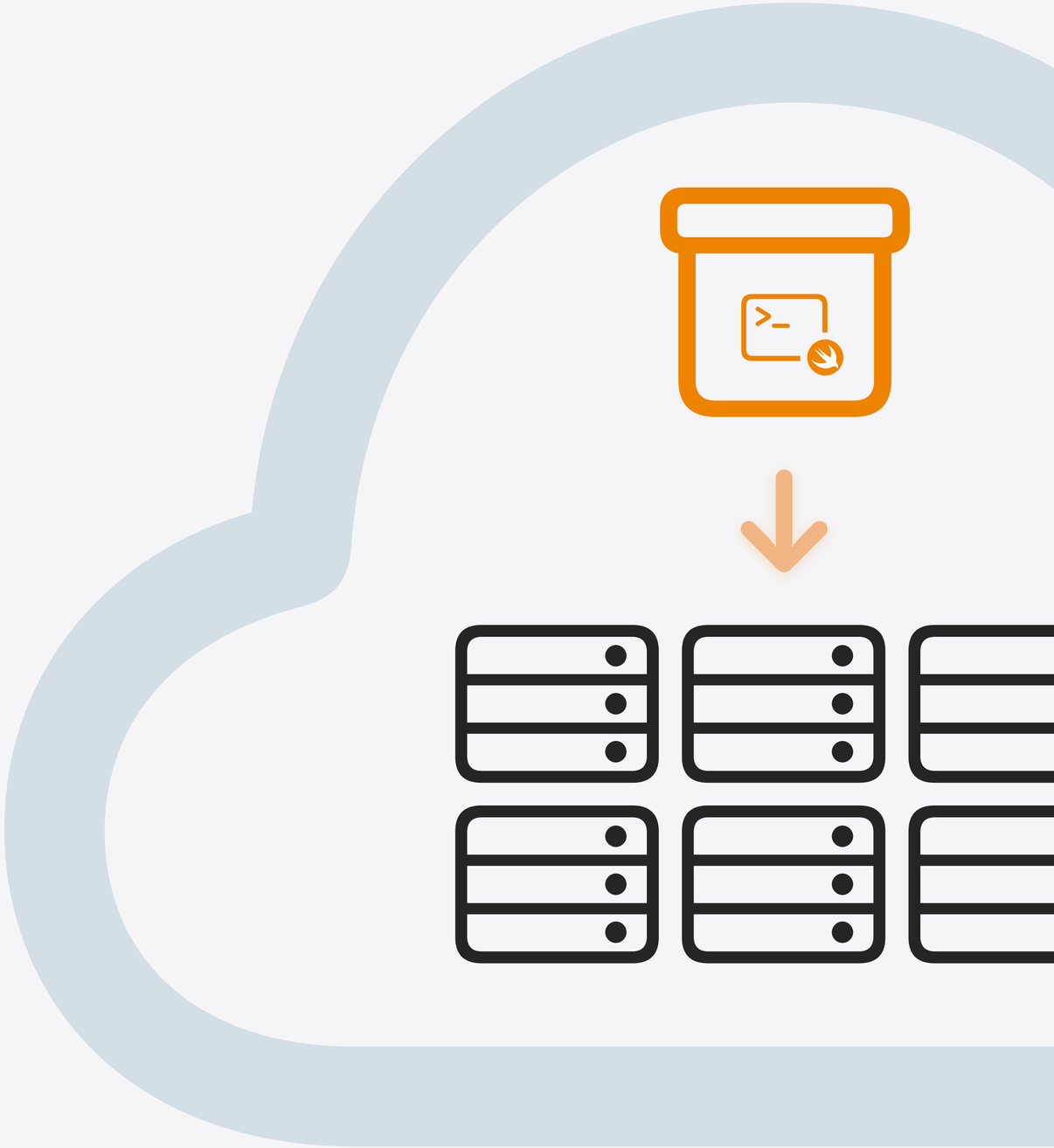
How to put Swift in a box

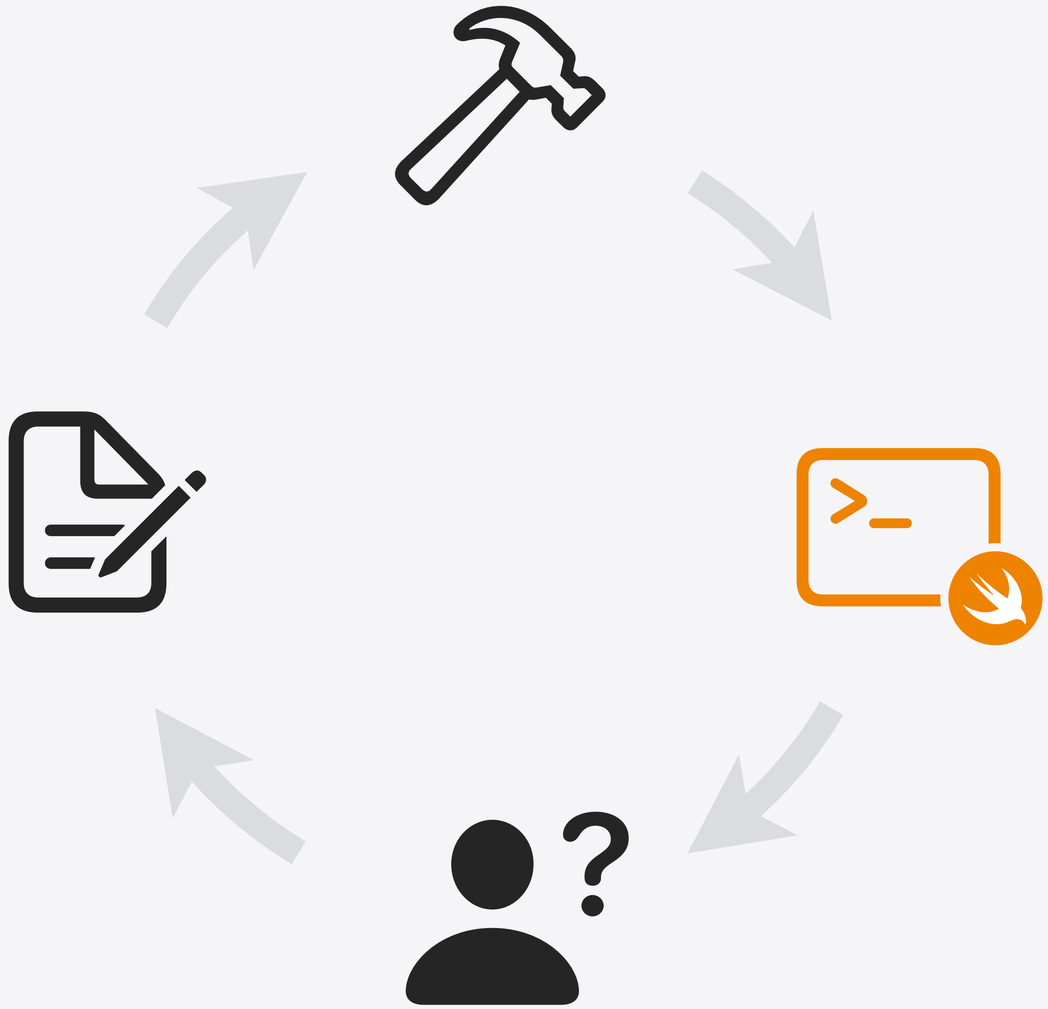
Euan Harris
Apple

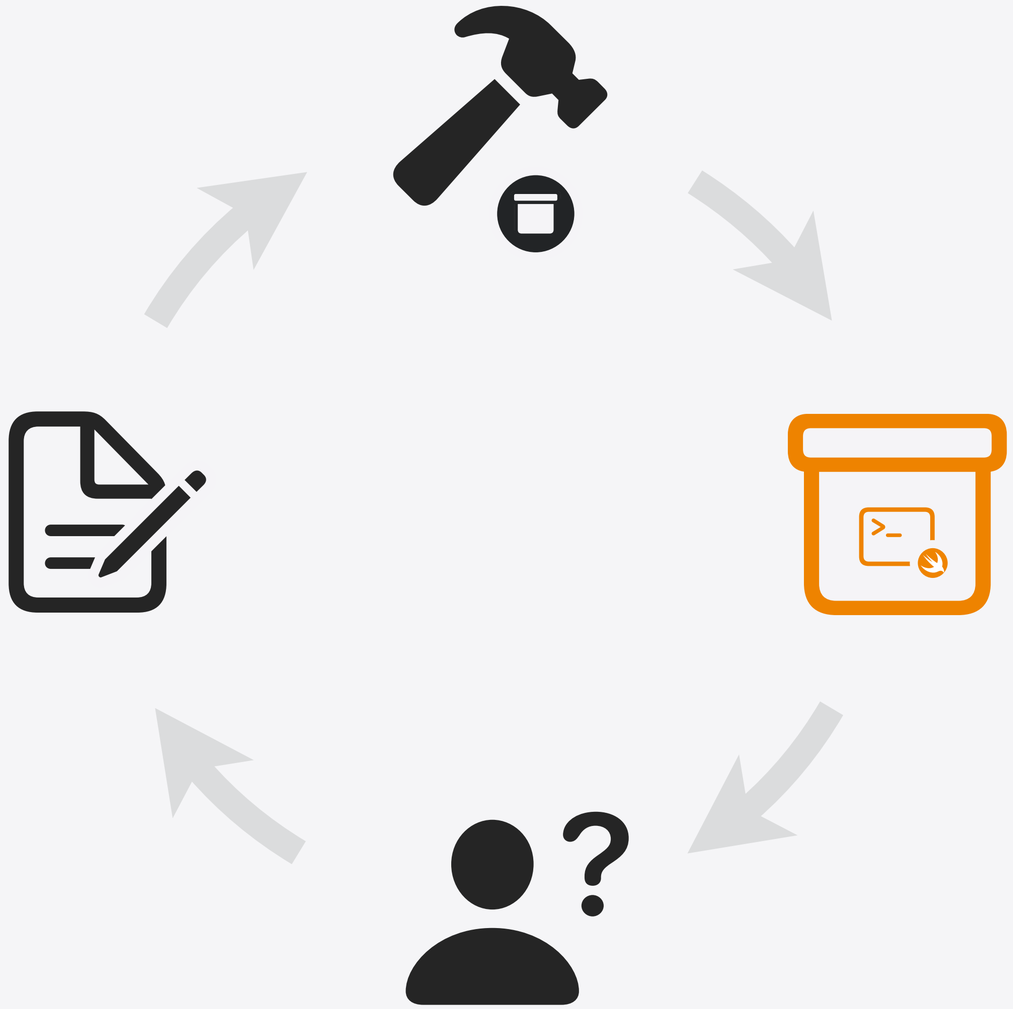
@euanh











Demo

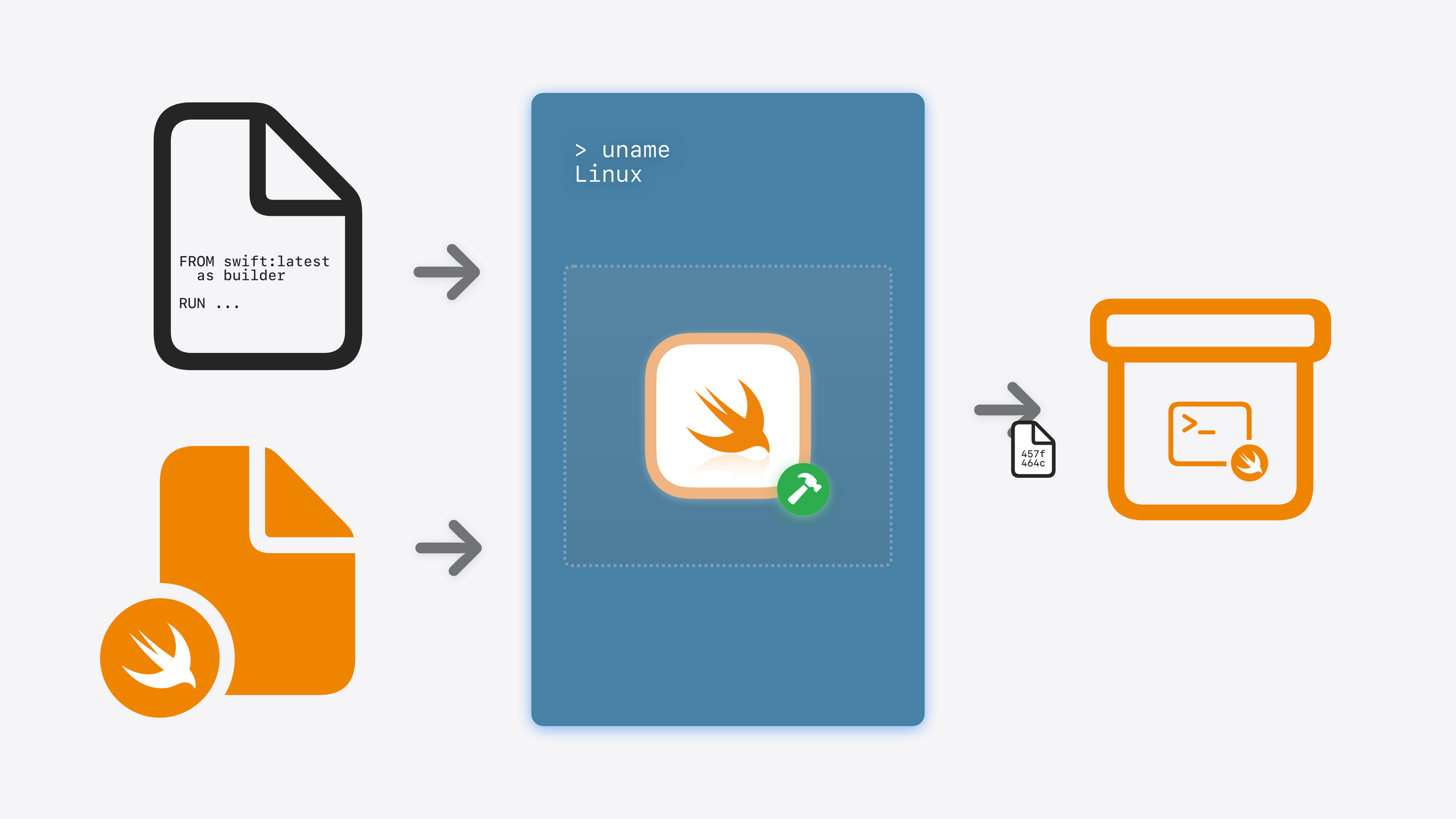
Build the server binary on macOS, for Linux

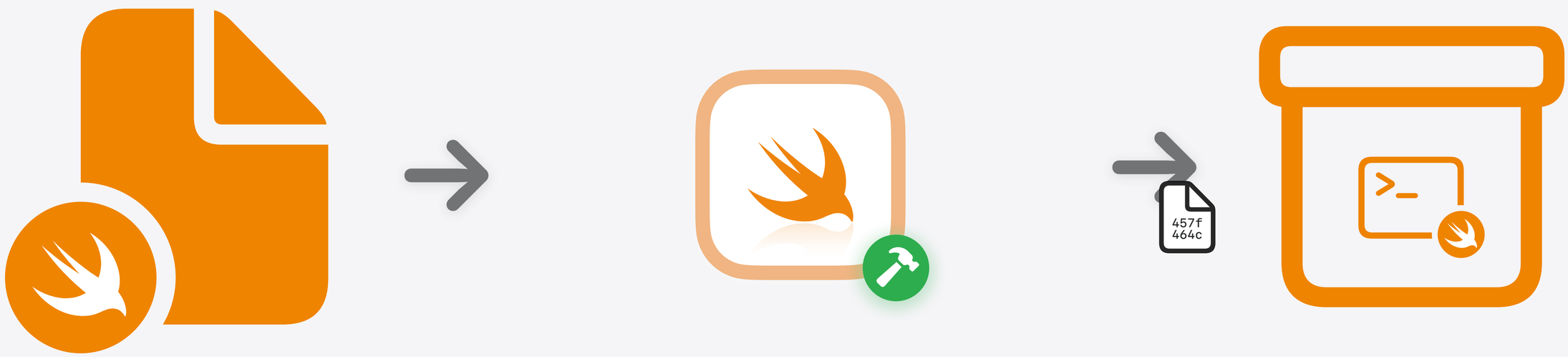
Publish a container image, from scratch

```
% swift package --swift-sdk aarch64-swift-linux-musl \
    build-container-image --repository localhost:5555/hello
```

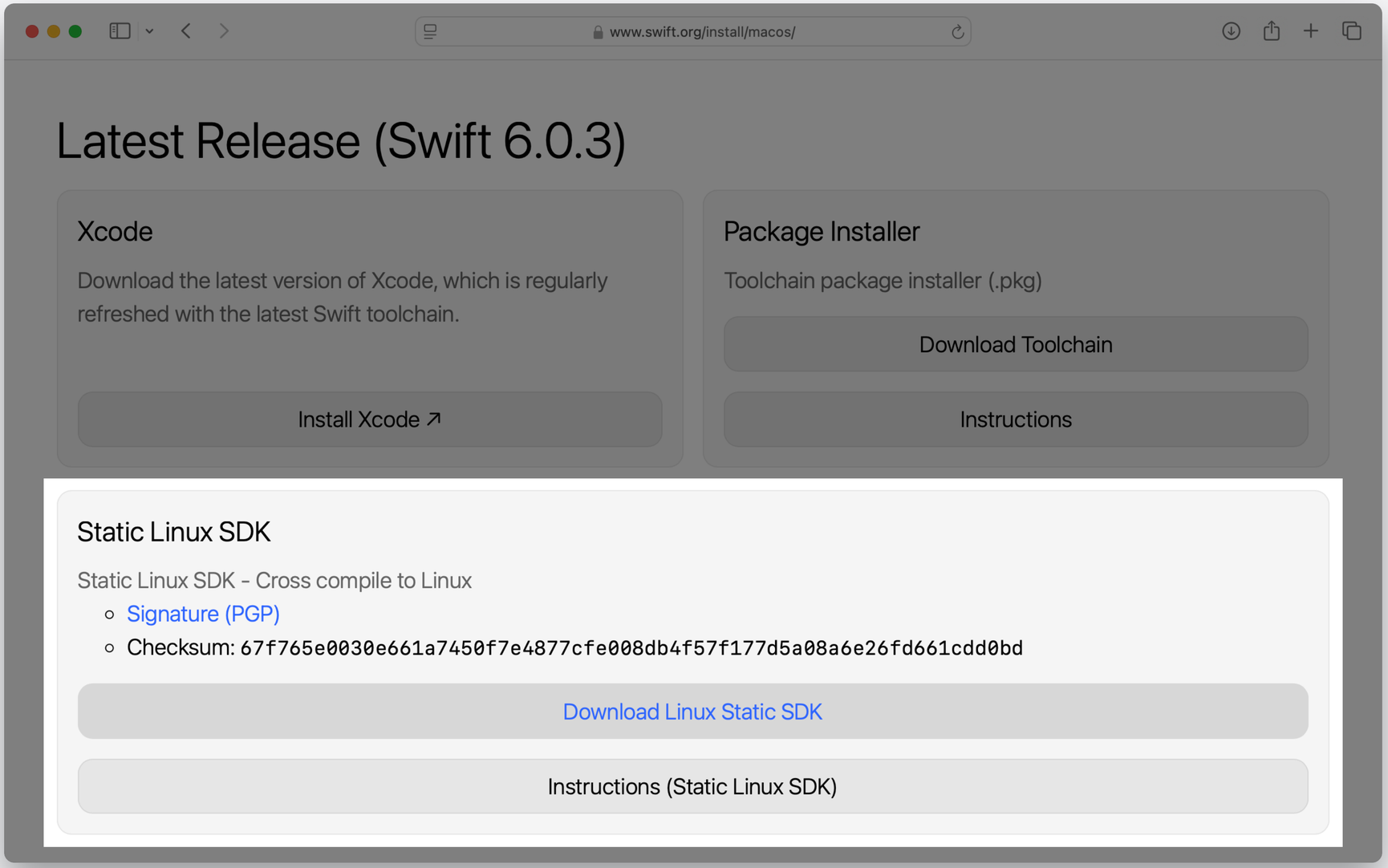
Build the server binary on macOS, for Linux

Publish a container image, from scratch


FROM swift:latest
as builder
RUN ...
> uname
Linux
457f
464c


457f
464c

Cross compile with Swift SDKs on macOS and Linux

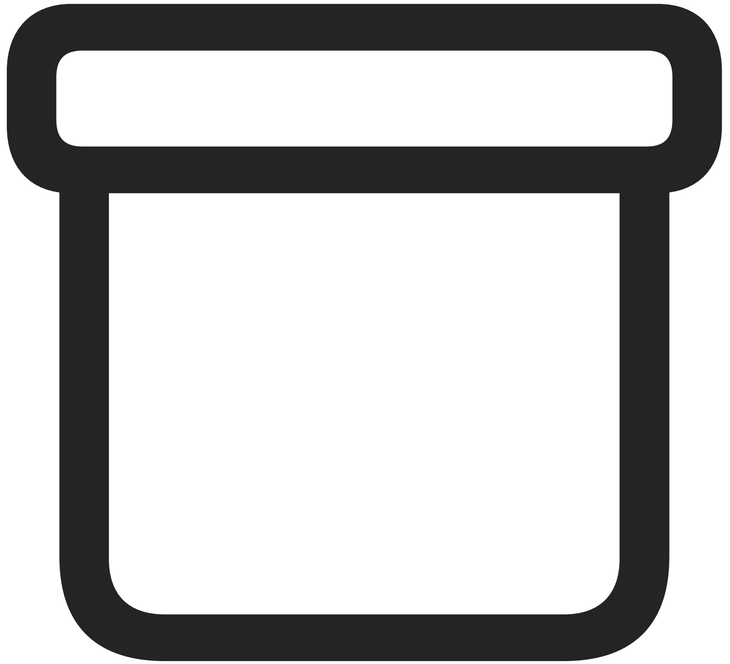


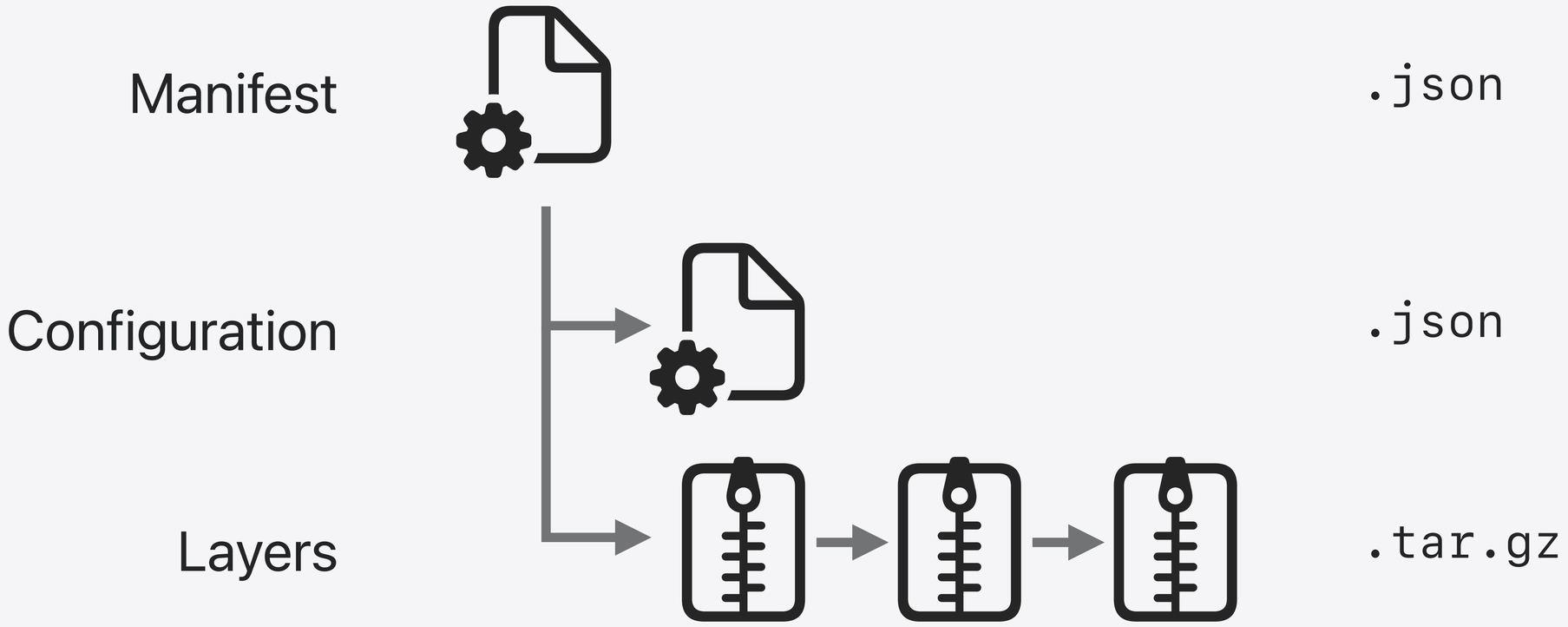
https://www.swift.org/install/macos/

Demo

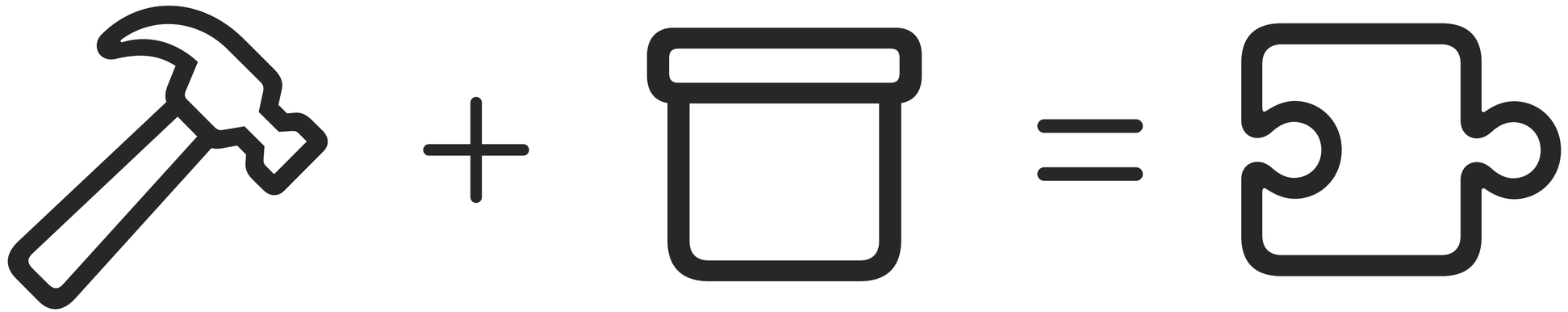
Build the server binary on macOS, for Linux

Publish a container image, from scratch



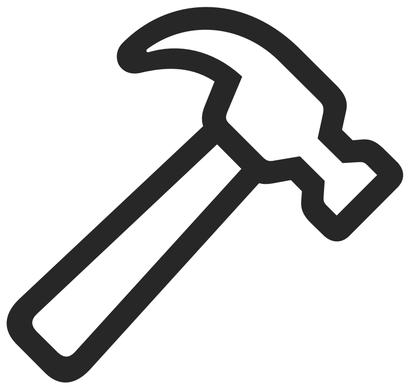
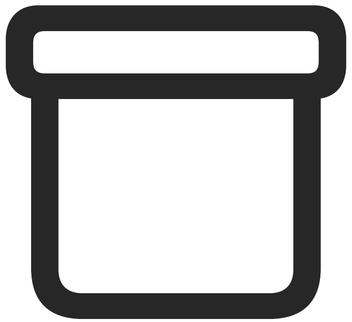
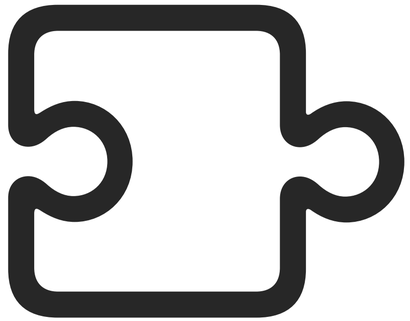

Manifest
.json
Configuration
.json
Layers
.tar.gz

Demo



```
% swift package --swift-sdk aarch64-swift-linux-musl \
    build-container-image --repository localhost:5555/hello

localhost:5555/hello@sha256:a3f75d0932d052dd9d448a1c9040b16f9f...
```

github.com/apple/swift-container-plugin