

# How to put Swift in a **box**

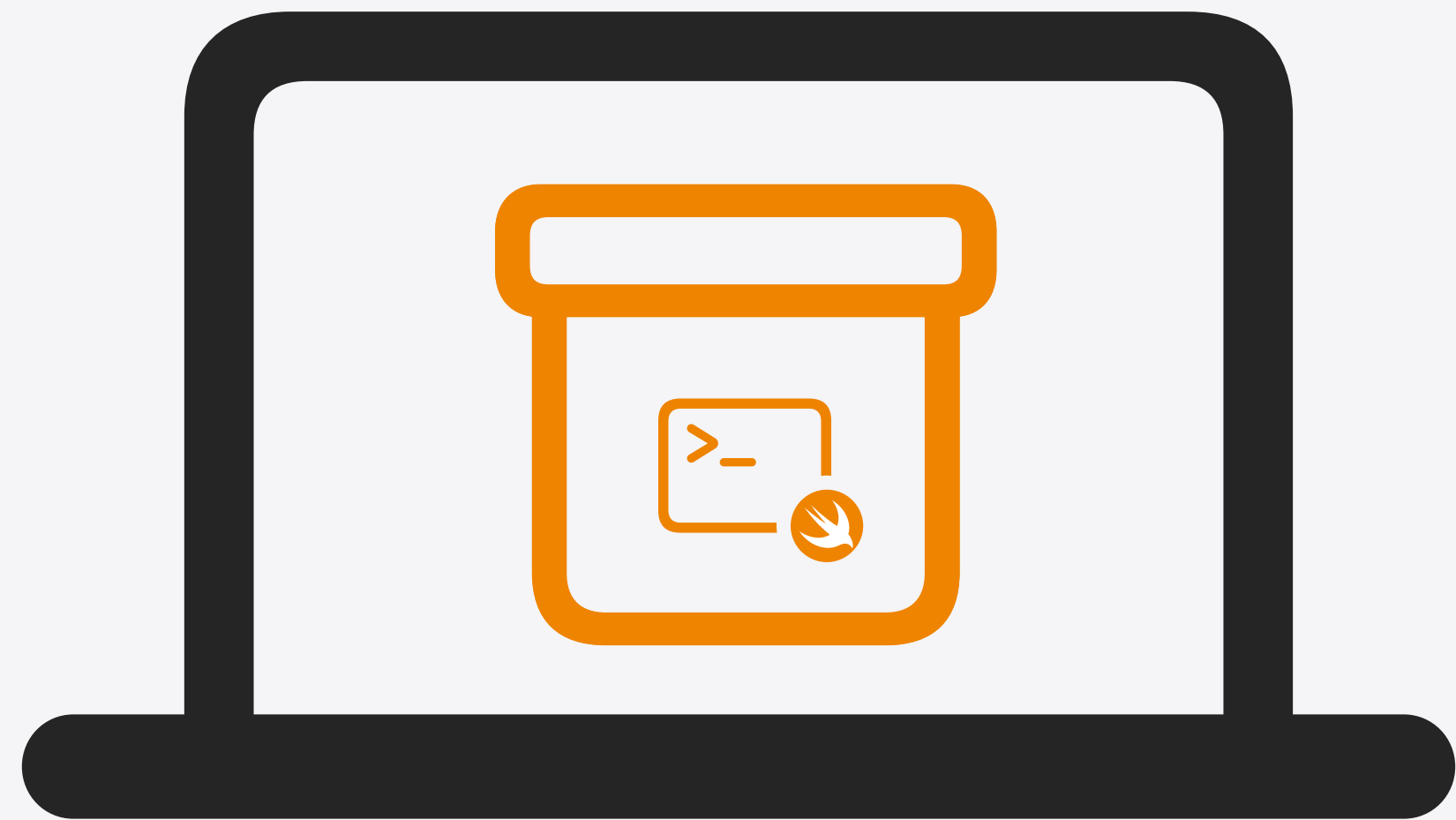
Euan Harris  
Apple

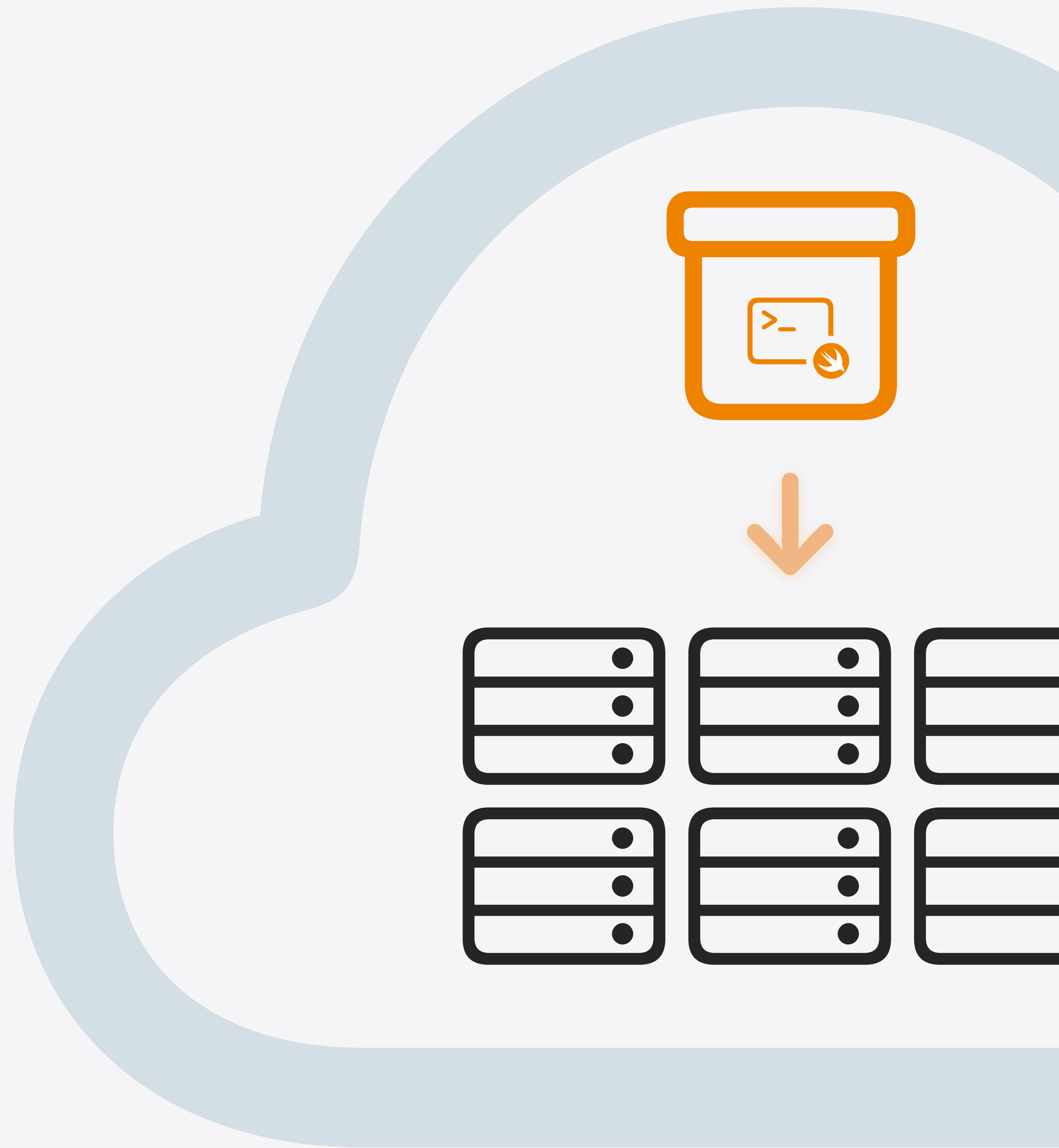
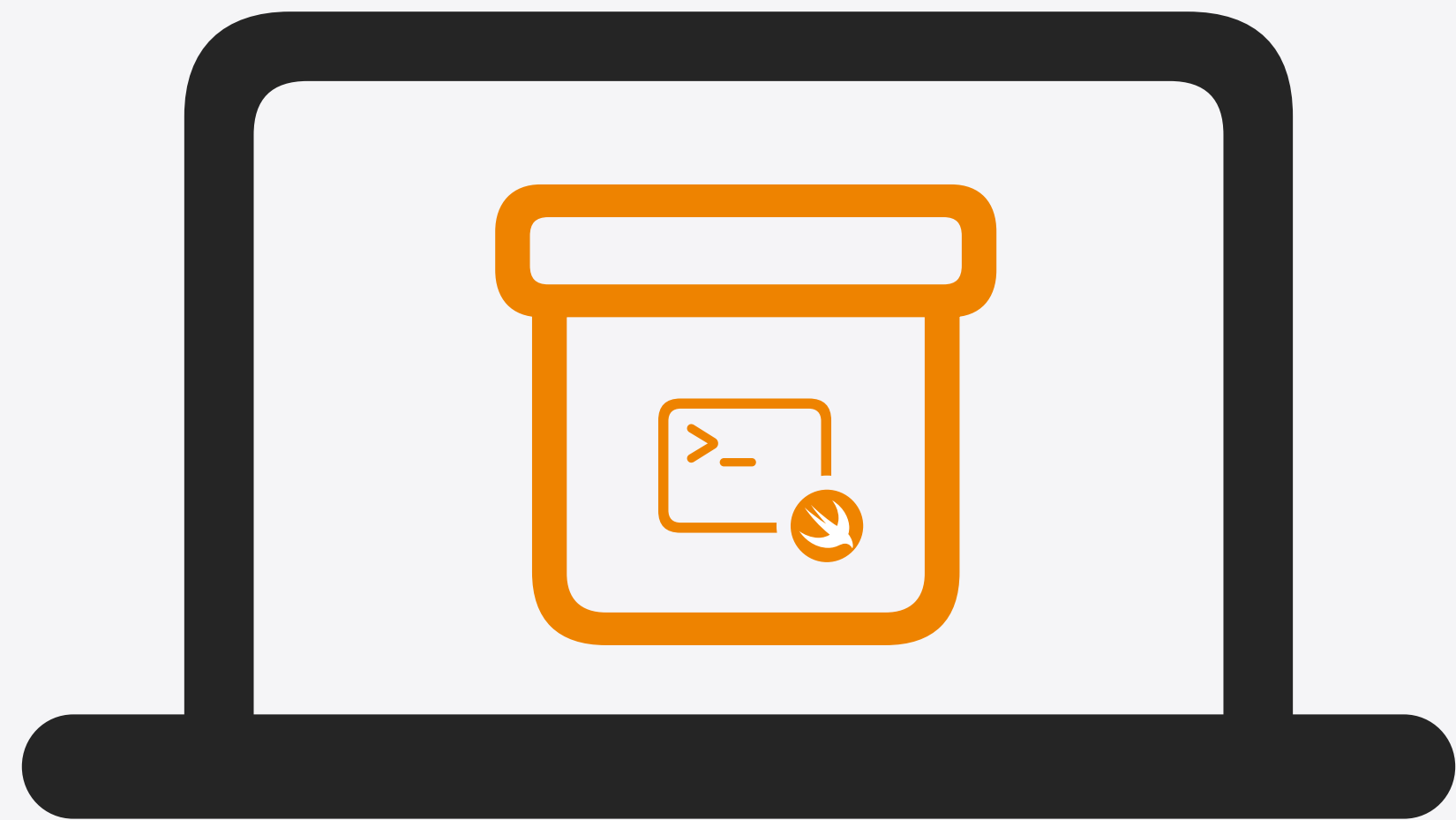
 @euanh

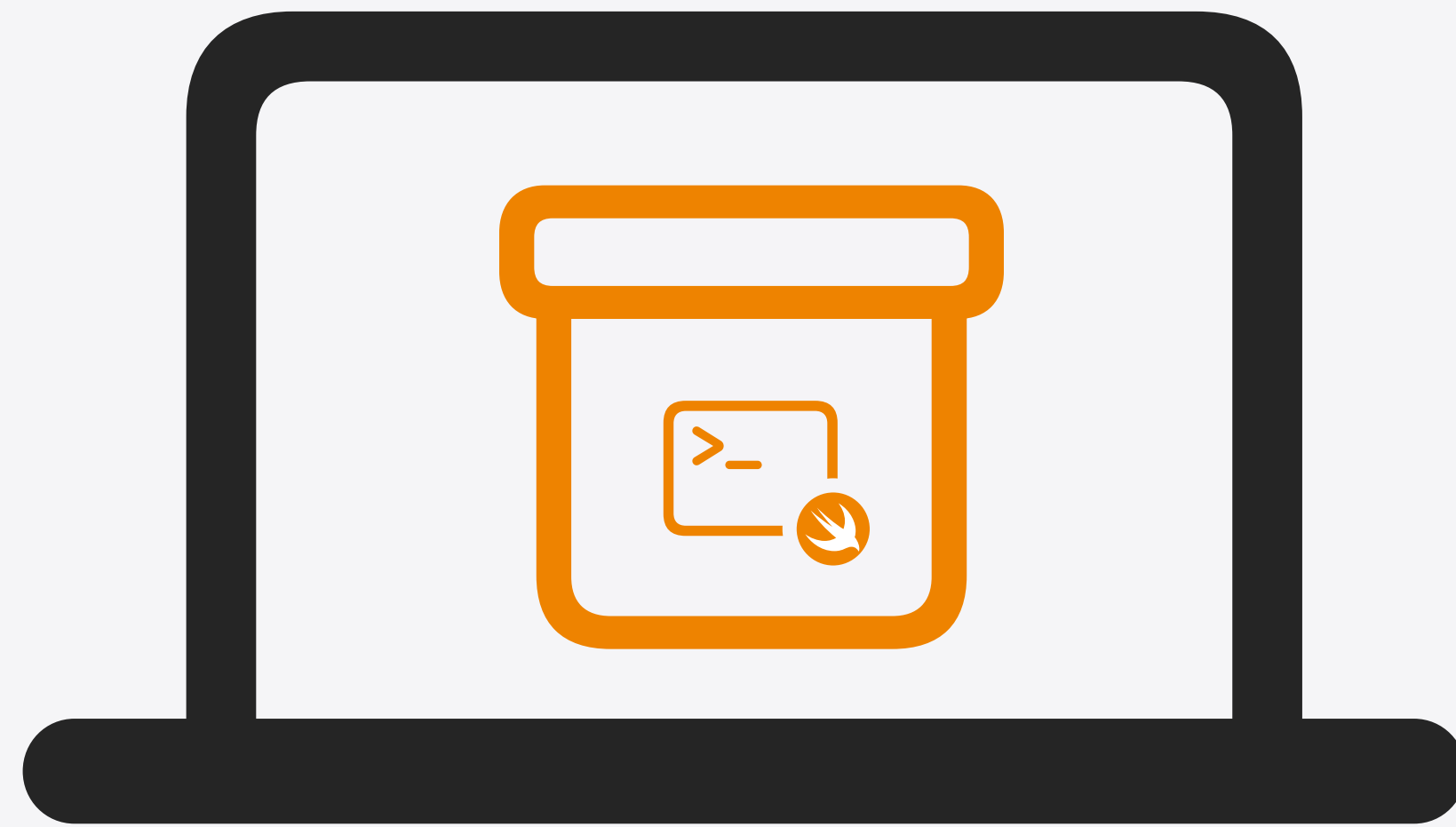


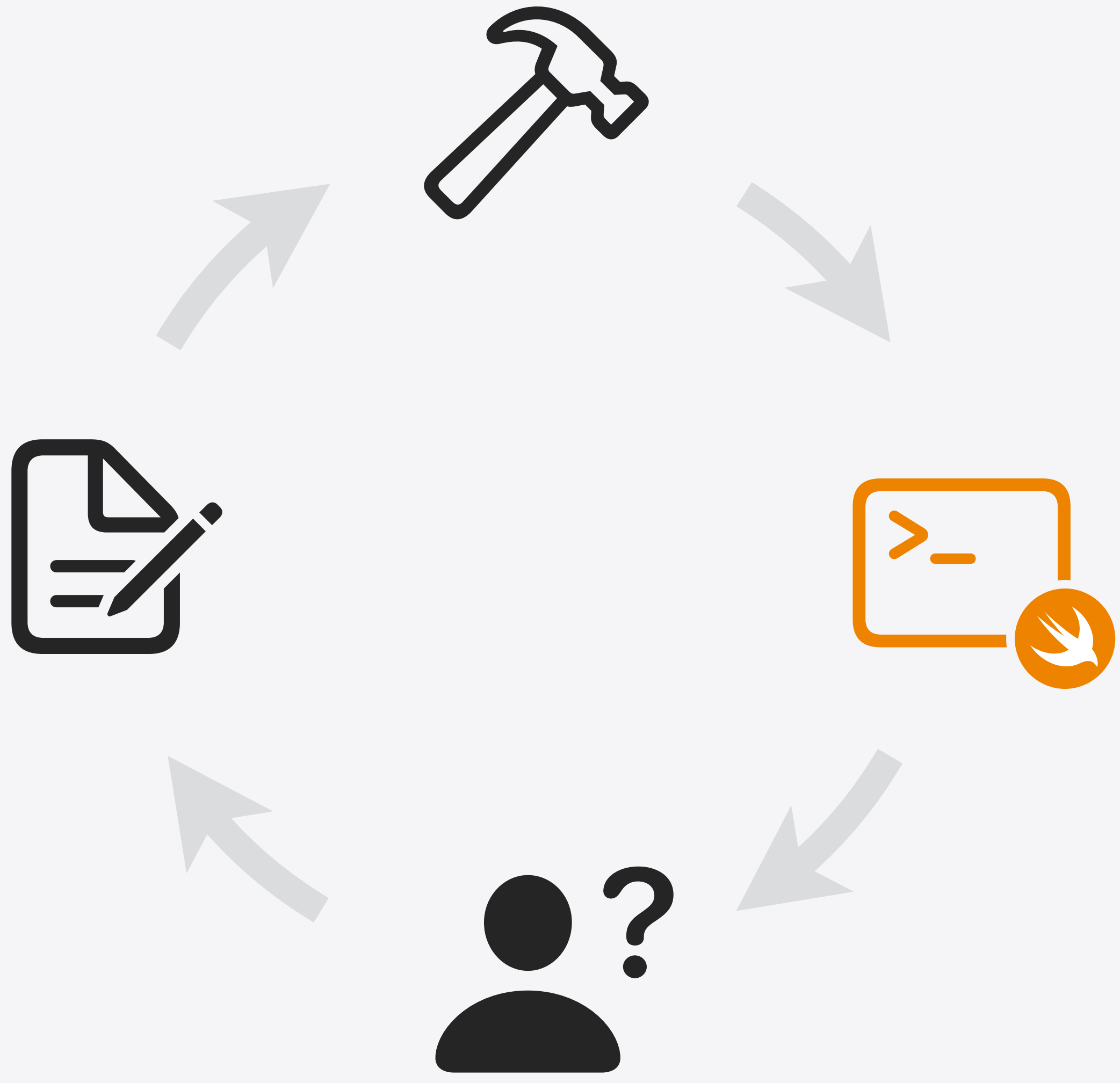


















**Demo**



**Build the server binary on macOS, for Linux**

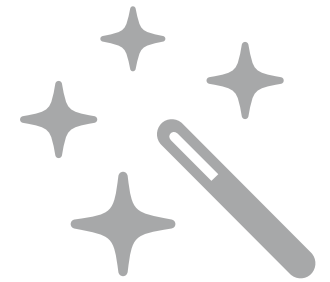


**Publish a container image, from scratch**

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

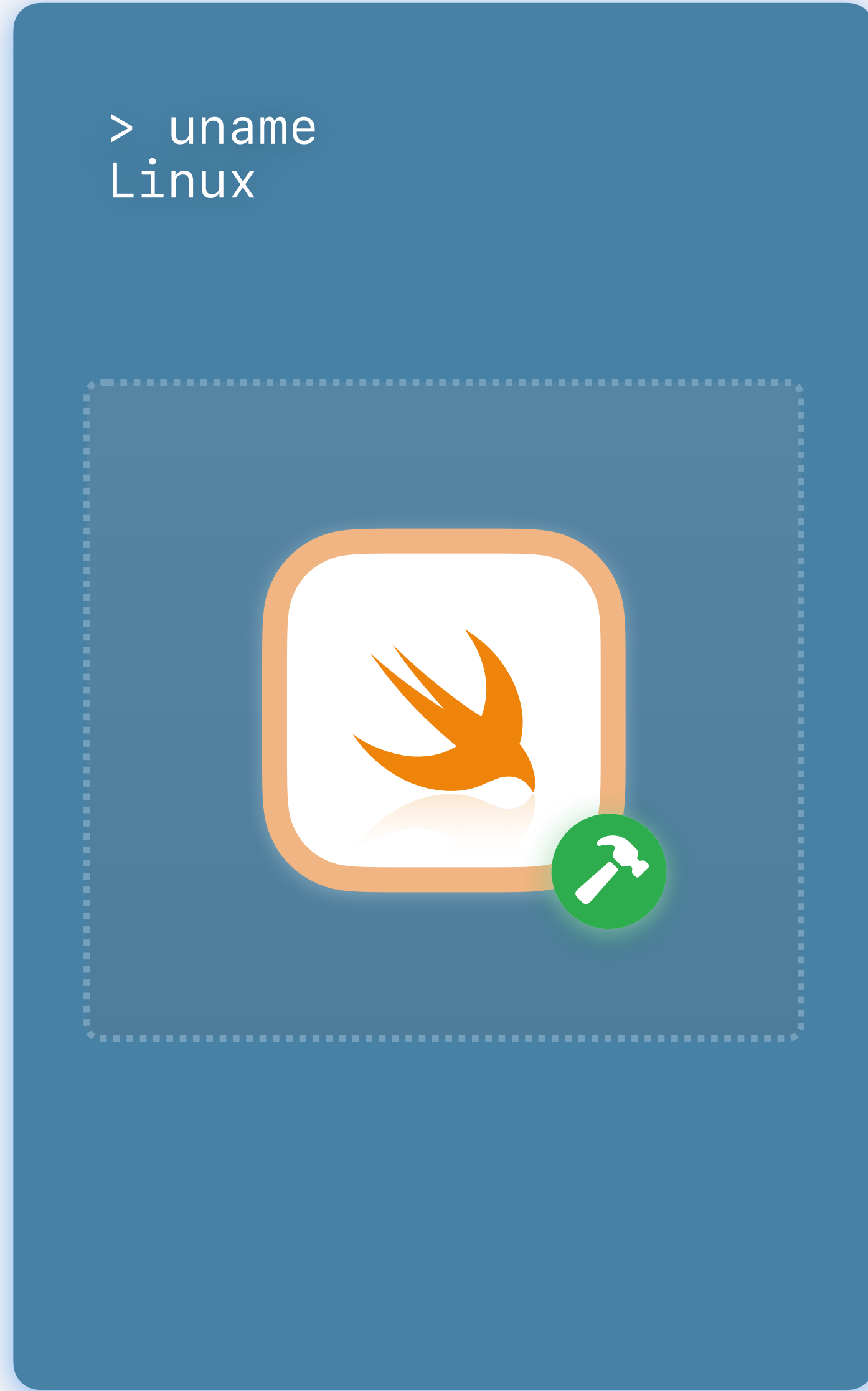
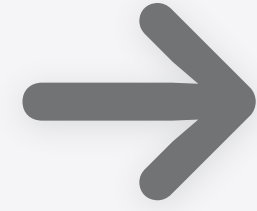


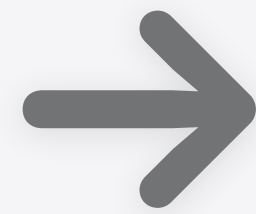
**Build the server binary on macOS, for Linux**



Publish a container image, from scratch











# **Cross compile with Swift SDKs on macOS and Linux**

www.swift.org/install/macos/

# Latest Release (Swift 6.0.3)

## Xcode

Download the latest version of Xcode, which is regularly refreshed with the latest Swift toolchain.

Install Xcode ↗

## Package Installer

Toolchain package installer (.pkg)

Download Toolchain

Instructions

### Static Linux SDK

Static Linux SDK - Cross compile to Linux

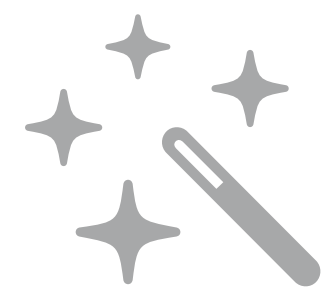
- [Signature \(PGP\)](#)
- Checksum: 67f765e0030e661a7450f7e4877cfe008db4f57f177d5a08a6e26fd661cdd0bd

[Download Linux Static SDK](#)

[Instructions \(Static Linux SDK\)](#)

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

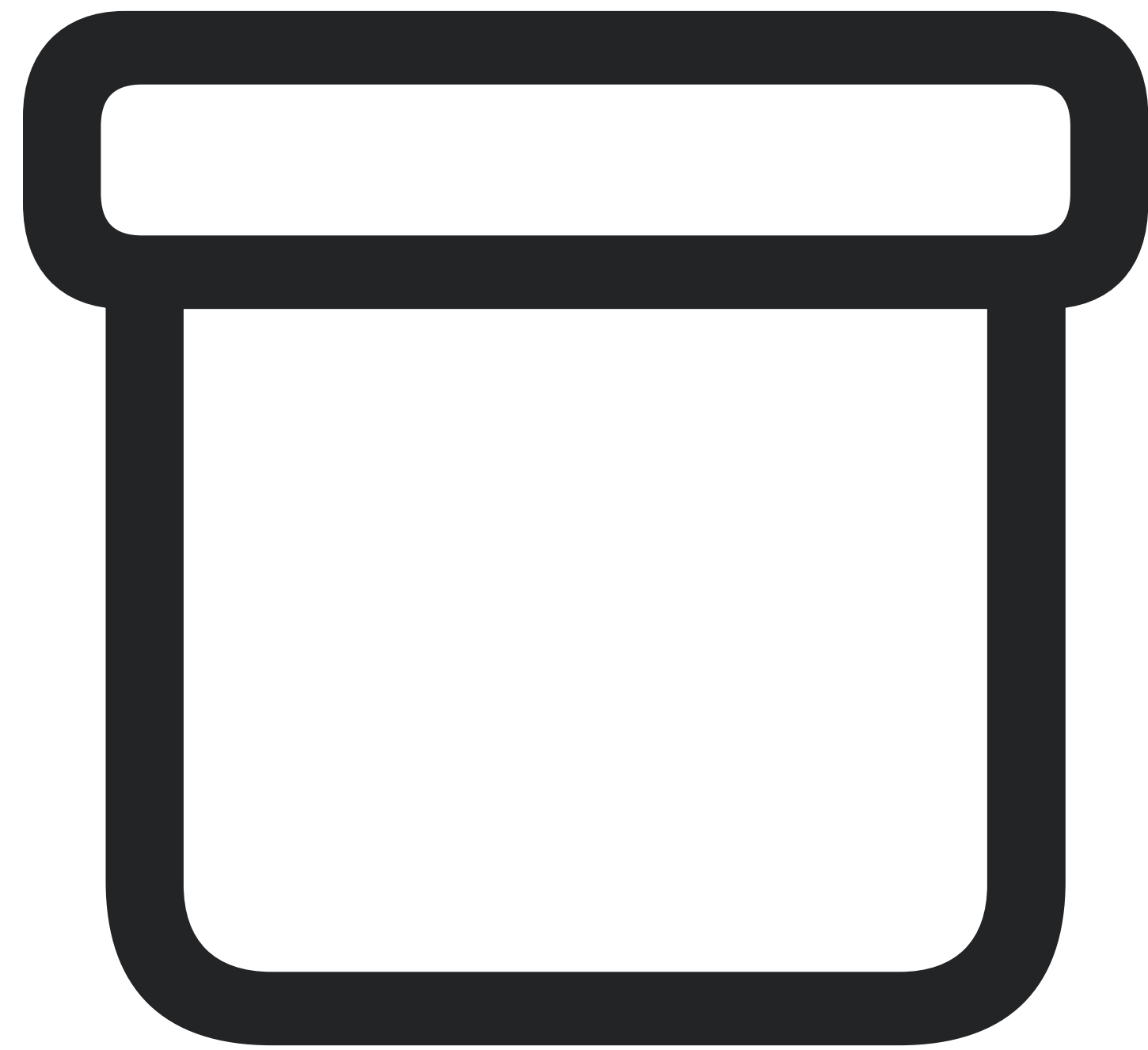
**Demo**

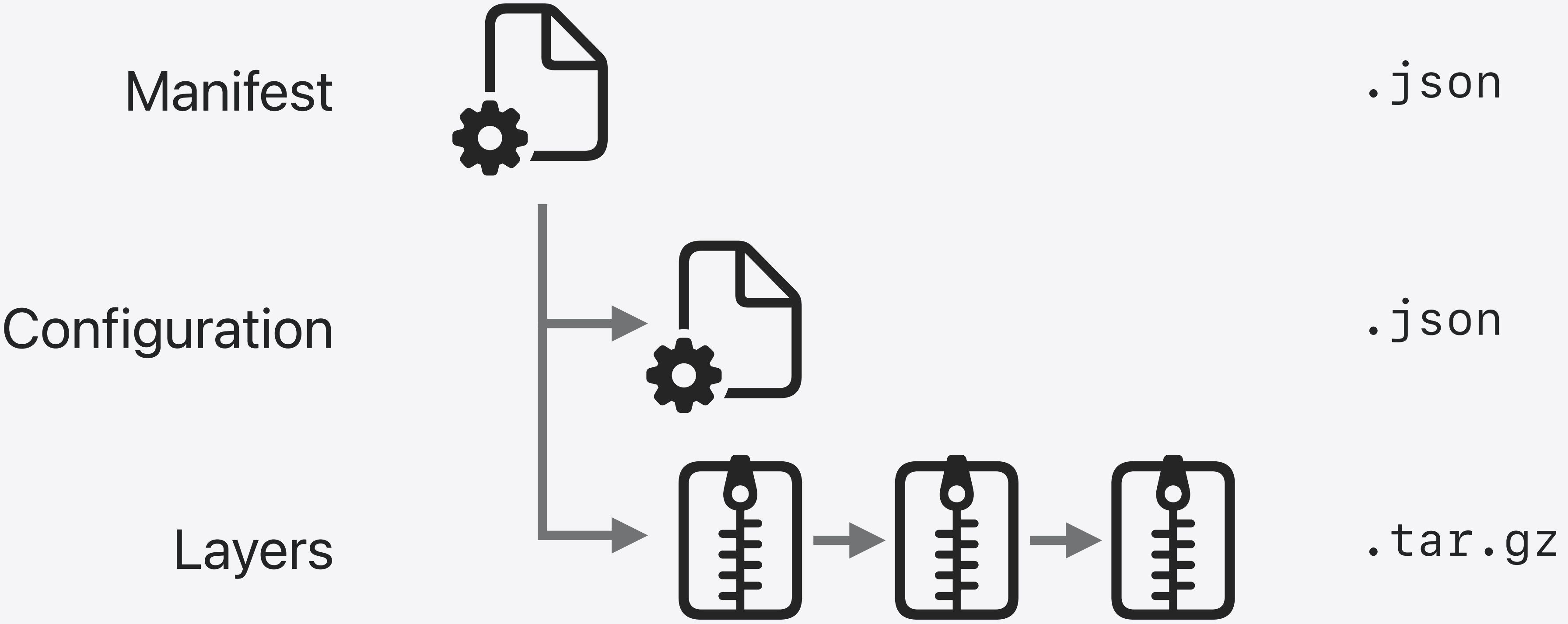


Build the server binary on macOS, for Linux



**Publish a container image, from scratch**





Manifest

Configuration

Layers

.json

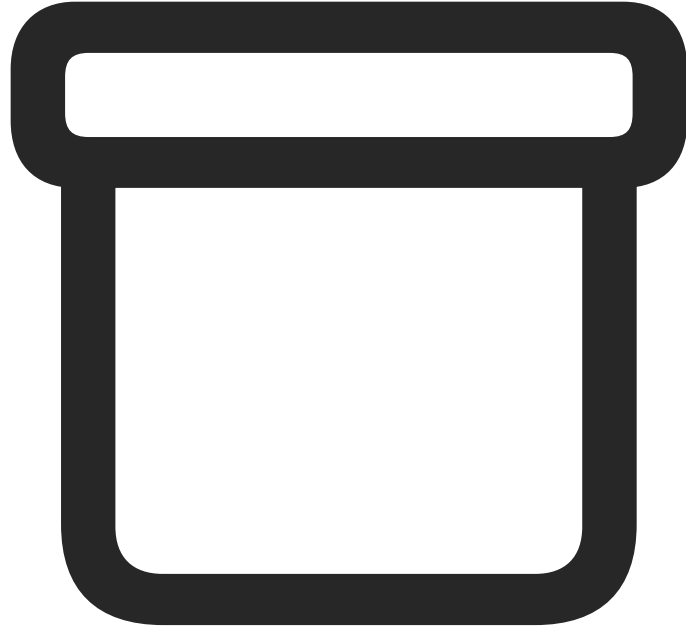
.json

.tar.gz

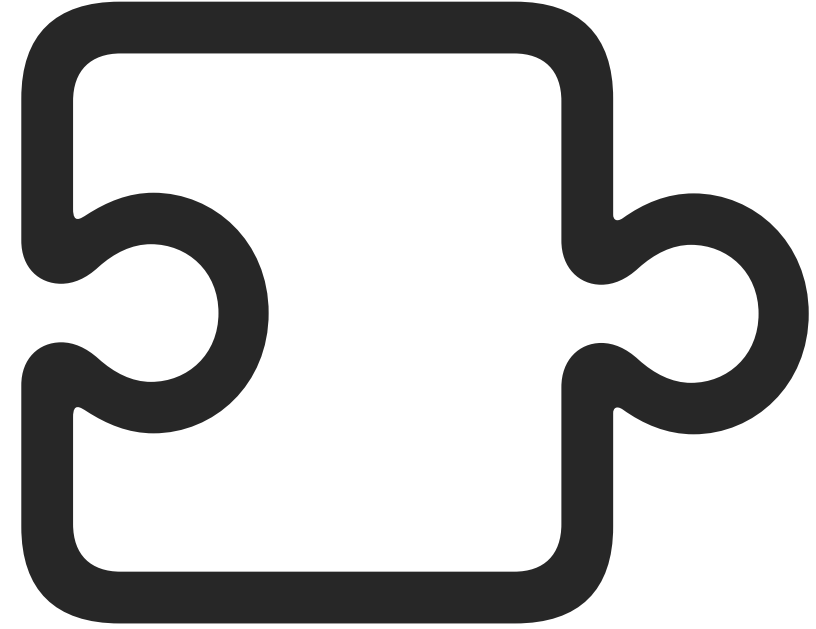
**Demo**



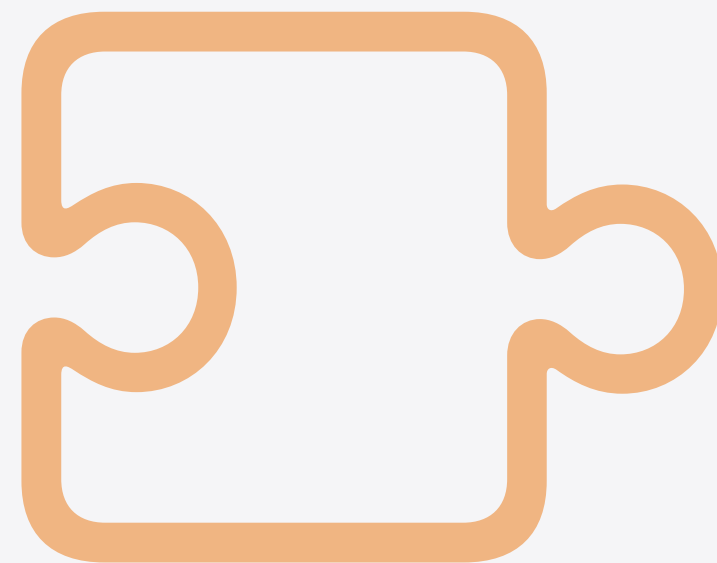
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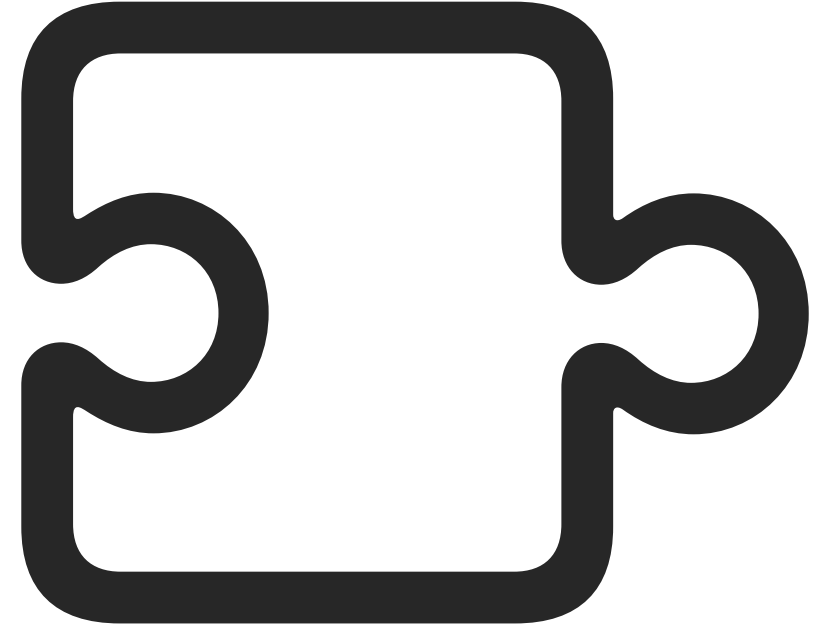
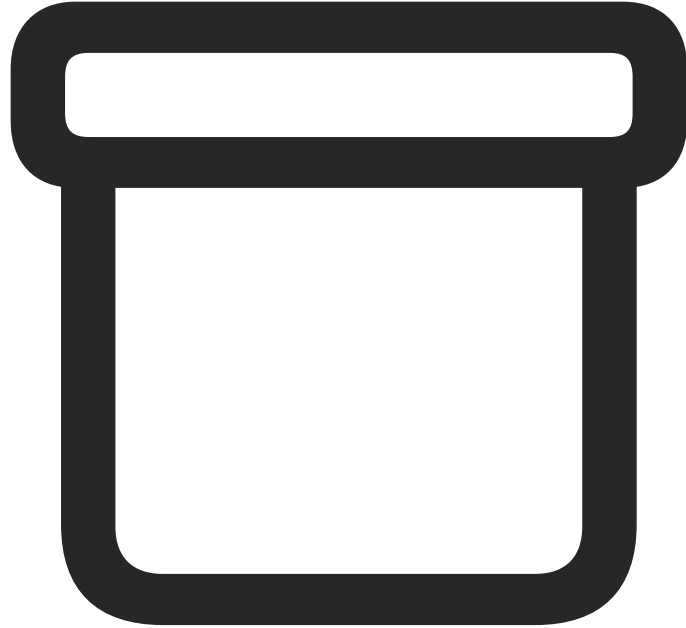
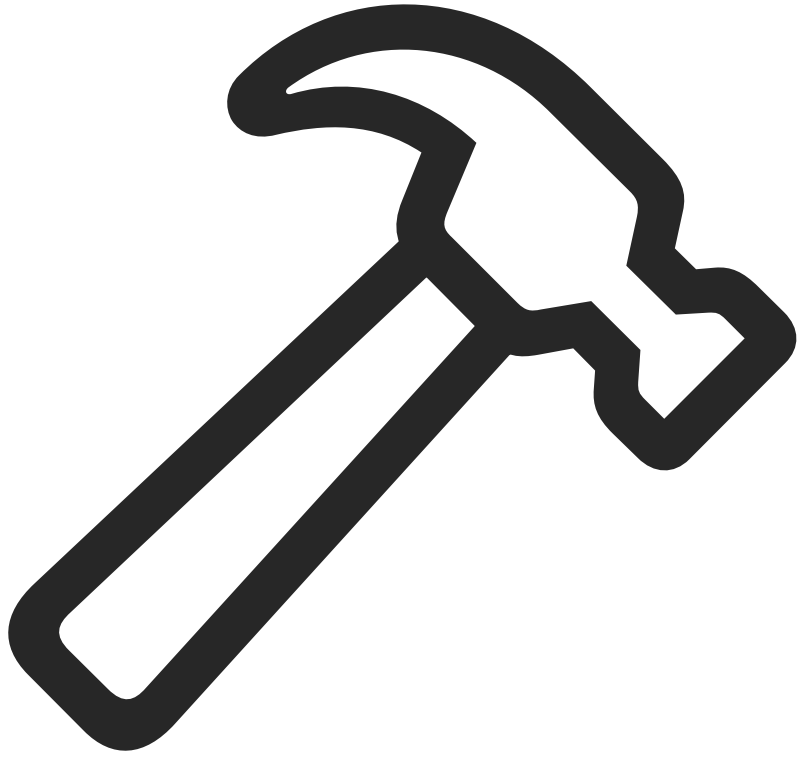
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```
% swift package --swift-sdk aarch64-swift-linux-musl \  
  build-container-image --repository localhost:5555/hello  
localhost:5555/hello@sha256:a3f75d0932d052dd9d448a1c9040b16f9f...
```



[github.com/apple/swift-container-plugin](https://github.com/apple/swift-container-plugin)