

# Going Serverless with Chalice

A Python Serverless Microframework

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# Agenda

1. We are going to build an app
2. How going serverless can help
3. How chalice fits in the puzzle
4. Getting started with chalice

# 1. We are going to build a web app!

## Core Requirements

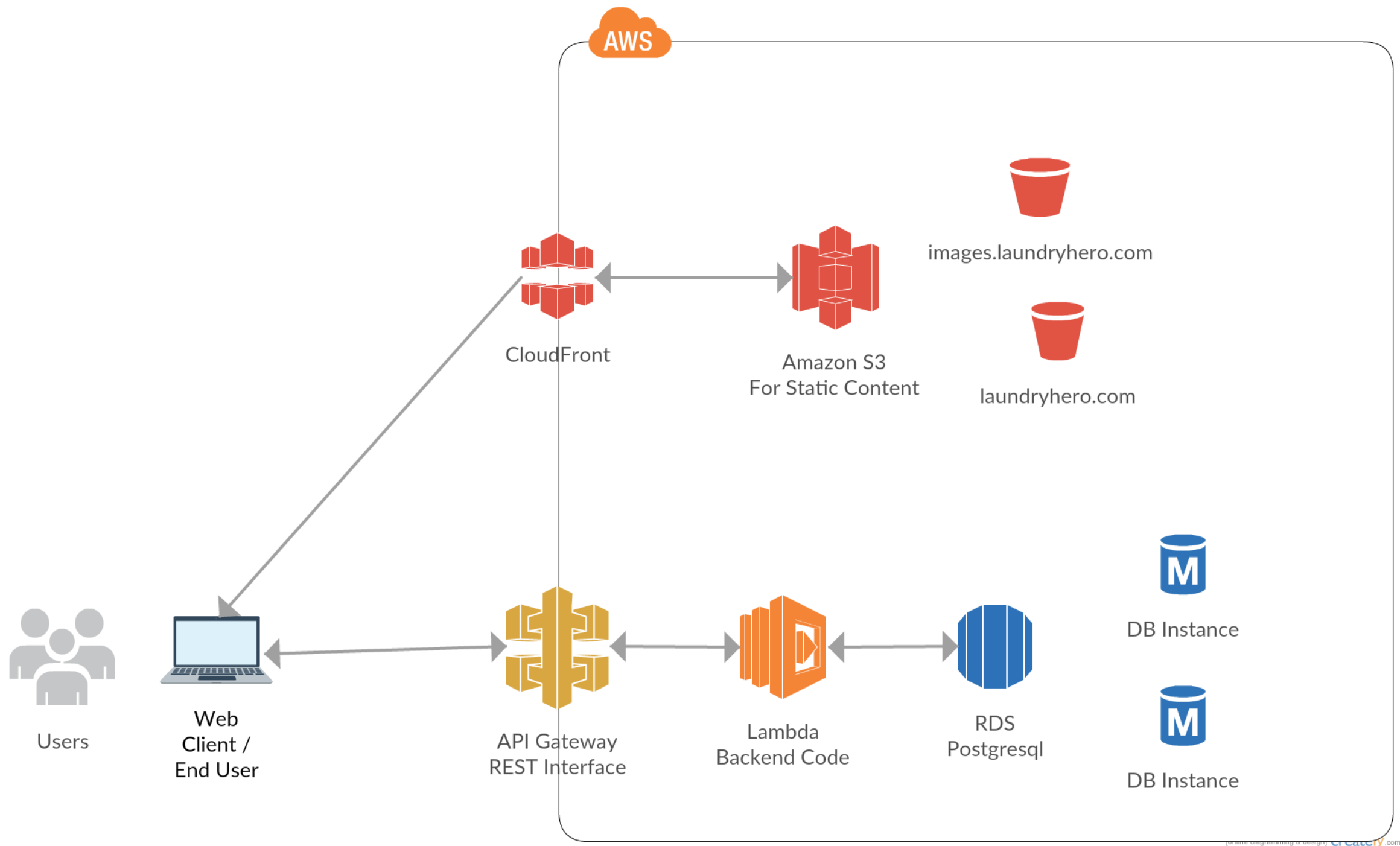
- Early Feedback
- Budget
- Scaling & Performance

# 1. We are going to build a web app!

## Product Components

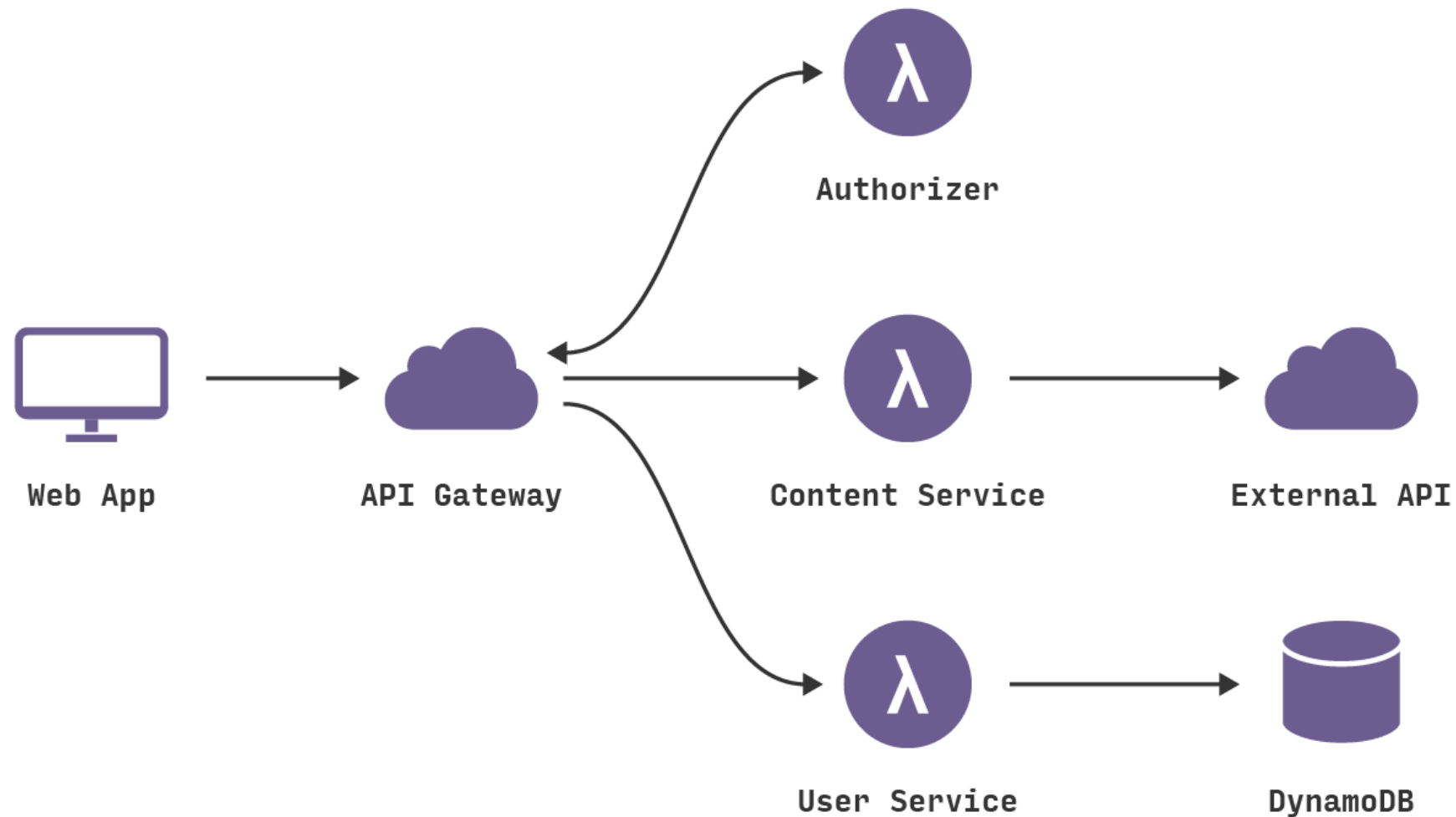
- API Backend
- Web Application
- \*Mobile Application

## 2. How going serverless can help



The High-level Architecture

## 2. How going serverless can help



Source: <https://blog.fugue.co/2016-05-05-architecting-a-serverless-web-application-in-aws.html>

## 2. How going serverless can help



API Gateway



AWS Lambda

## 2. How going serverless can help

How does this help us?

- ★ Budget

- ★ Scaling & Performance

- ★ Early Feedback



# Demo

Easy! Let's try to do the API backend then!

## Swagger Petstore

This is a sample server Petstore server. You can find out more about Swagger at <http://swagger.io> or on [irc.freenode.net](http://irc.freenode.net), #swagger. For this sample, you can use the api key `special-key` to test the authorization filters.

Find out more about Swagger

<http://swagger.io>

[Contact the developer](#)

[Apache 2.0](#)

### **pet** : Everything about your Pets

Show/Hide | List Operations | Expand Operations

POST	/pet	Add a new pet to the store
PUT	/pet	Update an existing pet
GET	/pet/findByStatus	Finds Pets by status
GET	/pet/findByTags	Finds Pets by tags
DELETE	/pet/{petId}	Deletes a pet
GET	/pet/{petId}	Find pet by ID
POST	/pet/{petId}	Updates a pet in the store with form data
POST	/pet/{petId}/uploadImage	uploads an image

# Easy? What if...

### 3. How chalice fits in the puzzle

“The python serverless microframework for AWS, it allows you to quickly create and deploy applications that use Amazon API Gateway and AWS Lambda”

–awslabs

### 3. How chalice fits in the puzzle

It provides:

- A command line tool for creating, deploying, and managing your app
- A familiar and easy to use API for declaring views in python code
- Automatic IAM policy generation

# Demo

4. Getting started with chalice

# Summary

- Amazon Ecosystem (API Gateway & Lambda)
- Basic Serverless Architecture
- Python tool - Chalice
- Opportunities vs Cost
- Alternatives



# Questions?

Thank you for your time!

Slides and demo available at <http://bit.ly/2my06hQ>