



# MLP, AWS and AWS Amplify

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Principal SA, AWS  
FSI, ANZ





# Chris Modica

**Principal SA  
Sydney, Australia**



 @Chris\_Modica\_  
 In/christophermodica

3 years AWS, working with some of Australia's largest and most complex customers . First 2 years focused on B2B/ISV businesses across AU, NZ, US, UK, CN, ZA.

Ex. CTO, VPoE. Scaled and managed large teams (140-160+) across multiple countries, grown and created new businesses in tech, propTech, classifieds and FSI.

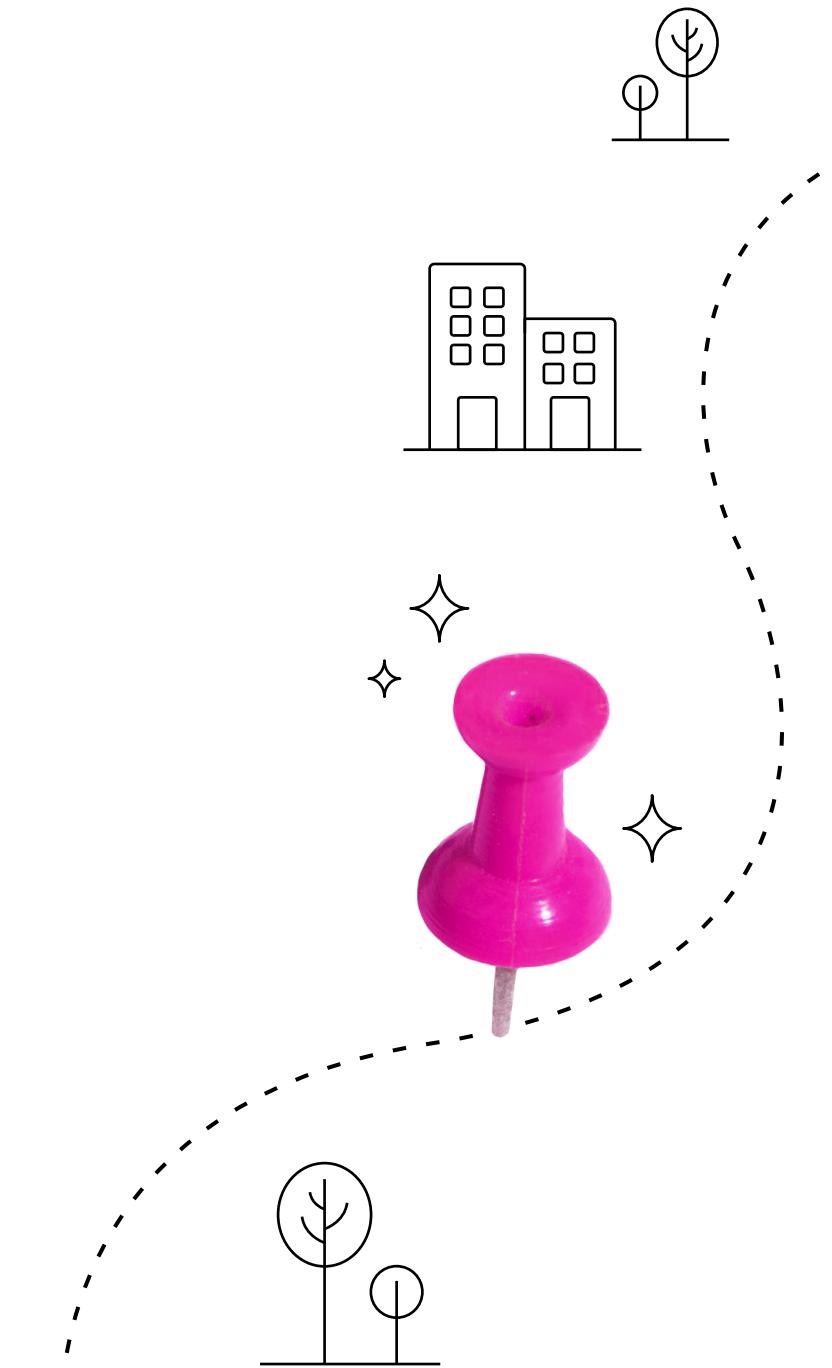
Currently enjoy working on the CBA Team at AWS



# Agenda

## All In Agile – Product Engineering

1. What is an MVP?
2. Before You Build
3. Leverage Frameworks
4. Flexible Architecture
5. Speed with Safety
6. Surviving the unexpected
7. Understanding your users



# Agenda

## Build on Technology

1. JavaScript Frameworks and Trends 2021
  
2. AWS Amplify overview
  
3. Learning pathways (*hands on coding*) - Next.js projects
  1. Watch and learn (video) ~ 30 mins
  2. Intermediate option or Advanced/Expert (Existing AWS account) ~ 2-4 hours
  3. Need an AWS account/developer workstation – Future ½ day event



# Time to Value

## *Opportunity cost*



The fast companies are **440x**

We found that, compared to low performers, high performers have:

**46x** more frequent code deployments

**440x** faster lead time from commit to deploy

**96x** faster mean time to recover from downtime

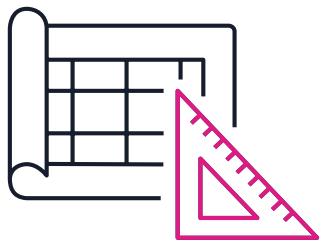
**5.0x** lower change failure rate (changes are 1/5 as likely to fail)

<https://puppet.com/resources/report/2021-state-of-devops-report>

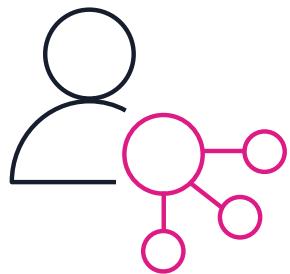
# What Is An MVP?



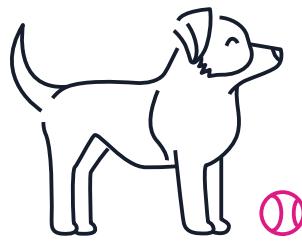
# Minimum {X} Product



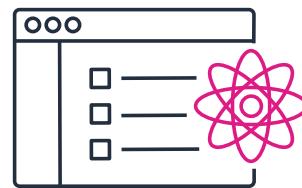
Viable



Usable



Loveable

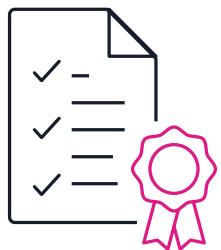


Testable

# "Left to Right" vs "Bottom to Top"



Functionality



Reliability



Usability



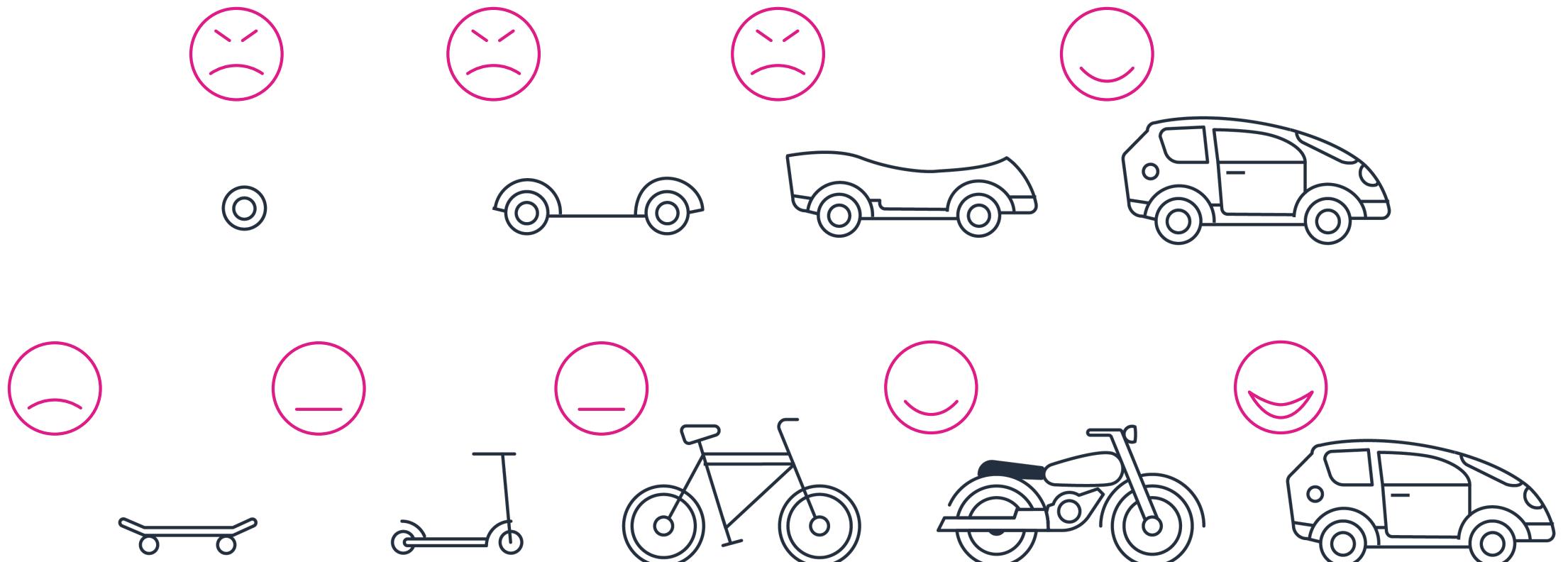
UX & Design



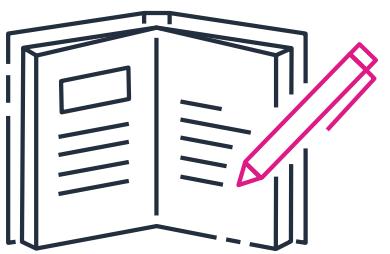
"If you aren't embarrassed by  
the first version of your  
product, you shipped too late."

Reid Hoffman  
Co-Founder LinkedIn

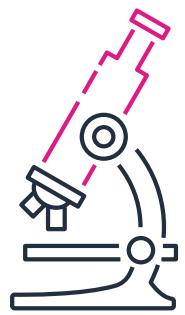
# Product Iteration



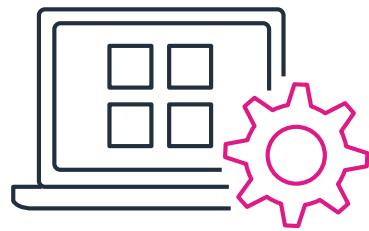
# Optimize For Learning



Learn

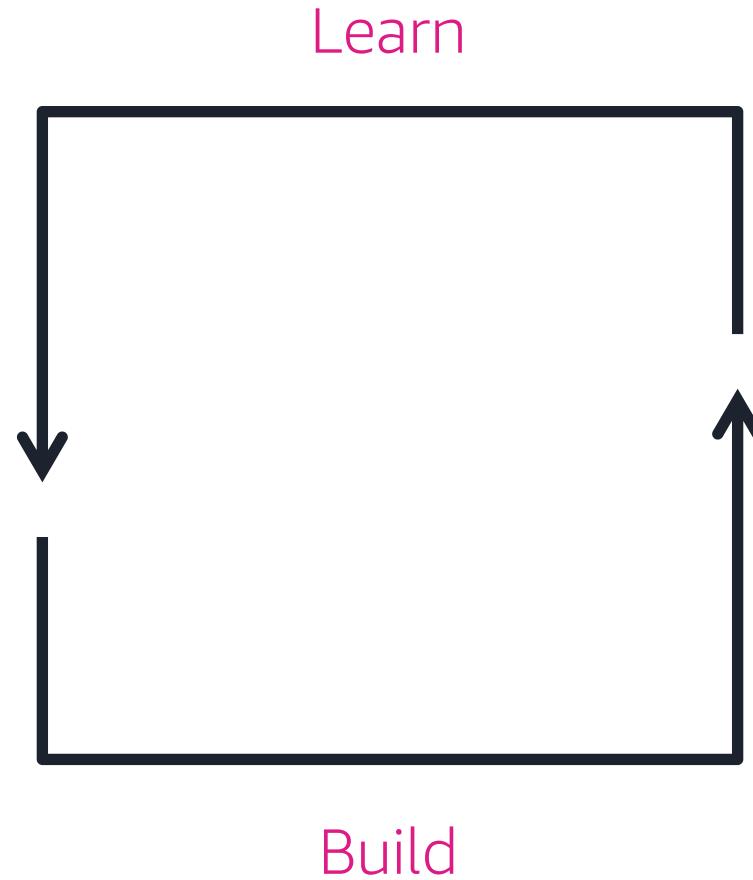


Experiment



Prototype

# The Learn-Build-Learn Cycle



# Before You Build



# Are You Ready To Build an MVP?



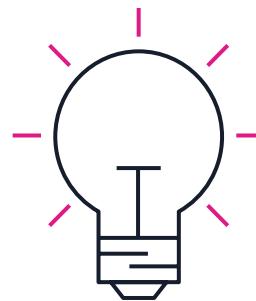
## Problem Definition

A clear understanding of the problem you are solving will ease communication of your idea with both stakeholders and users.



## Problem Metrics

The number of people that have this problem, and the impact of the problem to those users.

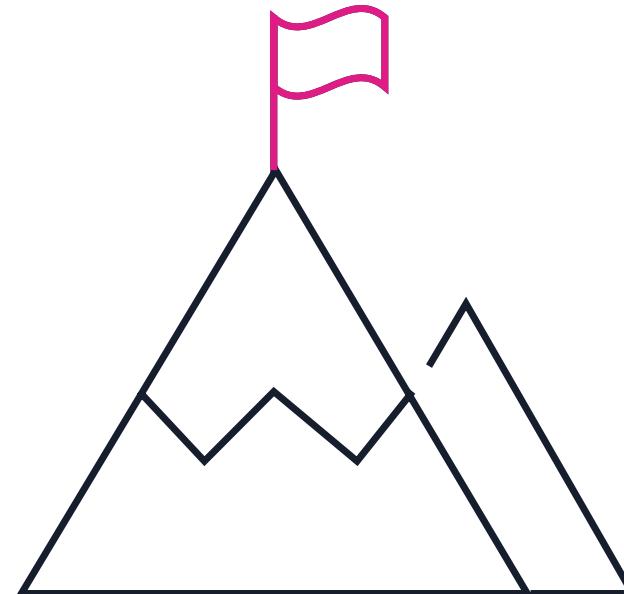


## Solution Hypothesis

Initial hypothesis of how the problem will be solved for your users.

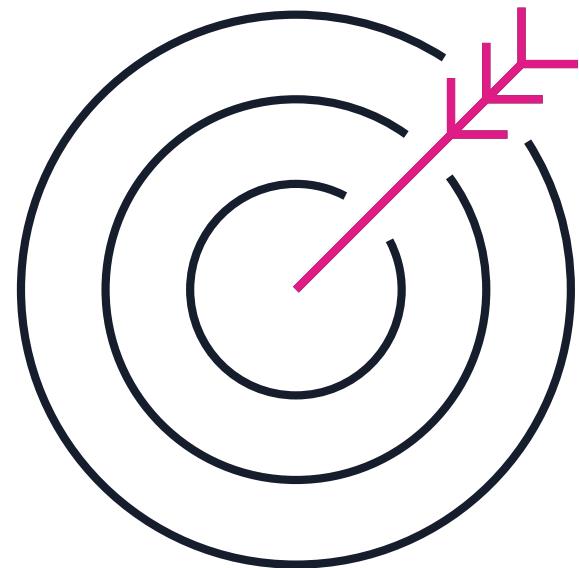
# MVP Is a State of Mind

- Process not product
- Speed is paramount
- Set the right focus (10-100 customers)
- Customer feedback is critical
- Expect to change/pivot/adapt
- Weigh technical debt vs other kinds of debt



# MVP Feature Prioritization & Scope

- Focus on building and validating the strongest use case first
- In most cases any building should take < 3 person months
- Distinguish between being busy and creating value
- Minimize friction wherever possible for your users





"Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away."

Antoine de Saint-Exupéry  
Airman's Odyssey

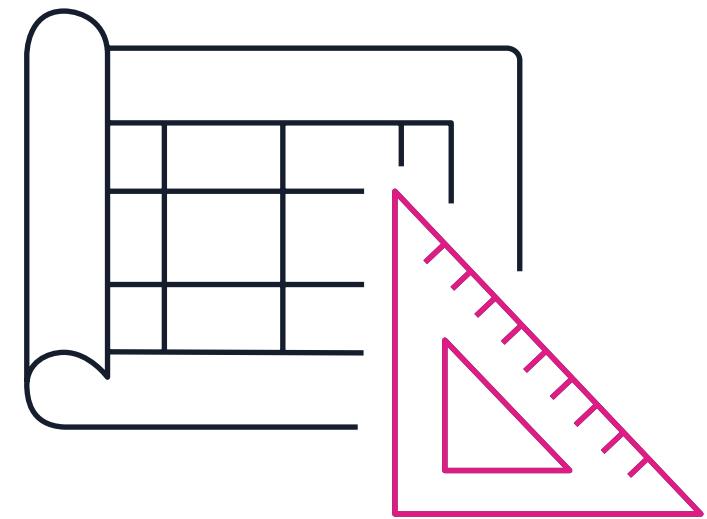
# Leverage Frameworks



# What Architecture Is Right For Me?

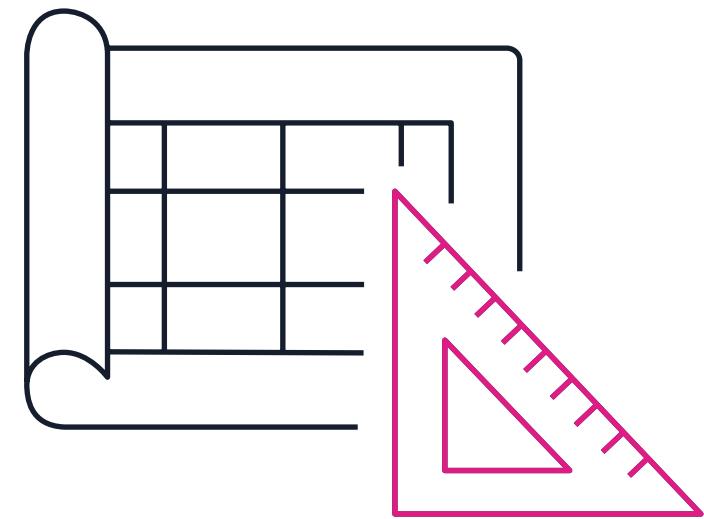
Ask yourself some important questions:

- What are you building?
- What are you optimizing for?
- What are your existing skill sets? What skill sets are available to you in the market?

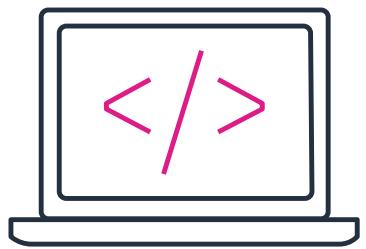


# What Architecture Is Right For Me?

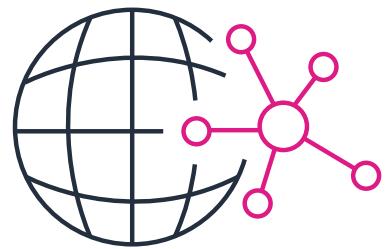
- The monolith is a viable option
- Leverage frameworks to increase your speed and confidence
- Very little of what you build in your MVP will be recognizable a year later
- Whatever you choose: leverage infrastructure as code!



# The Code Continuum



Consider where  
no code, and low code  
solutions fit in



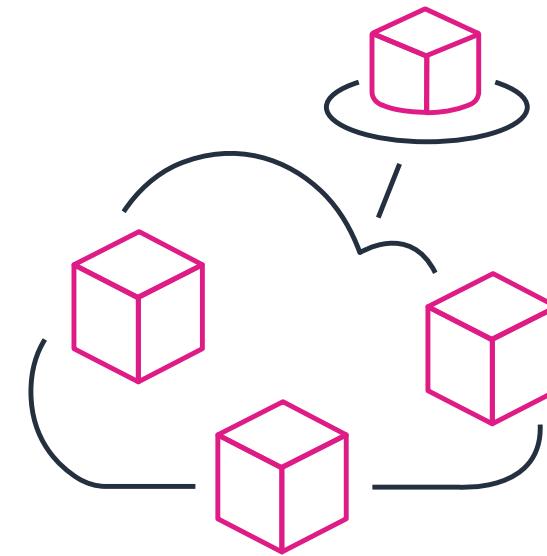
Abstraction  
vs  
flexibility tradeoffs

# AWS Amplify

AWS Amplify is a set of tools and services that can be used together or on their own, to help front-end web and mobile developers build scalable full stack applications, powered by AWS.

- Configure and deploy backends quickly
- Seamlessly connect frontends
- Streamlined deployment of frontends
- Easily manage your users and content

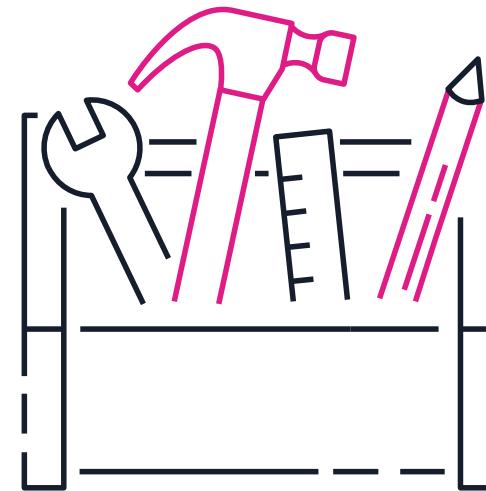
<https://aws.amazon.com/amplify/>



# AWS Copilot

AWS Copilot is a command line interface (CLI) that enables customers to quickly launch and easily manage containerized applications on AWS.

- Architecture, not infrastructure
- Simple and powerful config
- Develop/Release/Operate



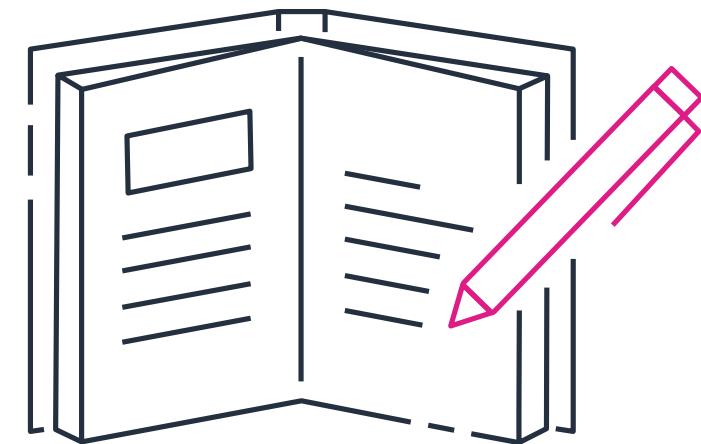
<https://aws.amazon.com/blogs/containers/introducing-aws-copilot/>



# AWS Solutions Library

The AWS Solutions Library offers a collection of cloud-based solutions for dozens of technical and business problems, vetted for you by AWS.

- Automatically deploys directly into your AWS account
- Library of AWS-vetted architecture diagrams



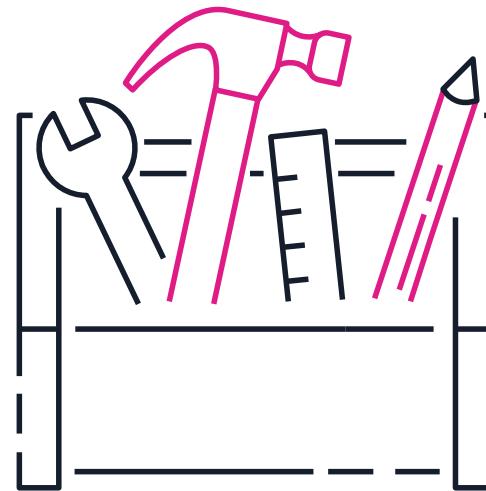
<https://aws.amazon.com/solutions/>



# AWS Cloud Development Kit

The AWS Cloud Development Kit (AWS CDK) is an open source software development framework to define your cloud application resources using familiar programming languages.

- Easier cloud onboarding
- Faster development process
- Customizable and shareable
- No context switching



<https://aws.amazon.com/cdk/>

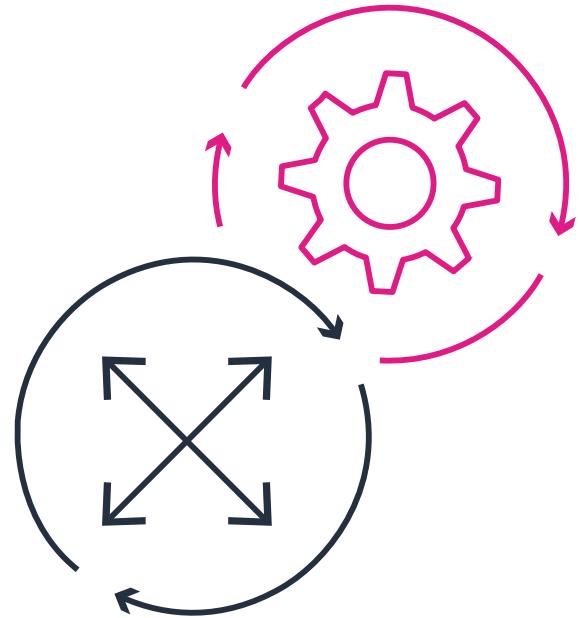


# AWS Solutions Constructs

AWS Solutions Constructs are vetted architecture patterns, available as an open-source extension of the AWS Cloud Development Kit, that can be easily assembled to create a production-ready workload.

- Infrastructure-as-code
- Pre-built, well-architected multi-service patterns
- Combine to create your own solutions
- Speed up your development cycle
- Consistently deliver Well-Architected apps

<https://aws.amazon.com/solutions/constructs/>

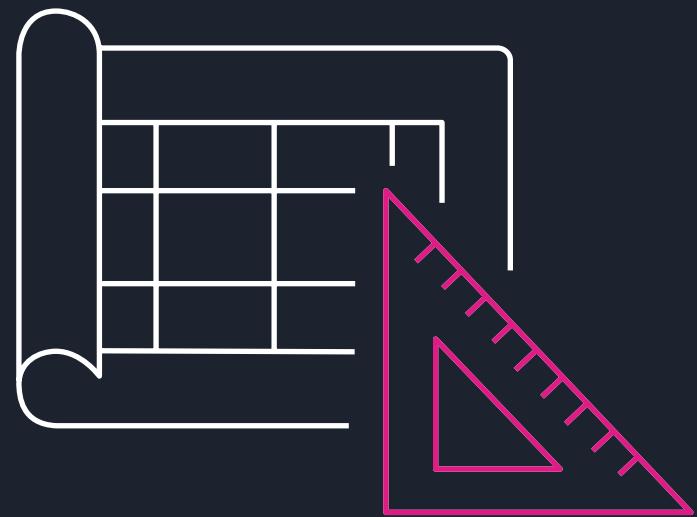


# Flexible Architecture



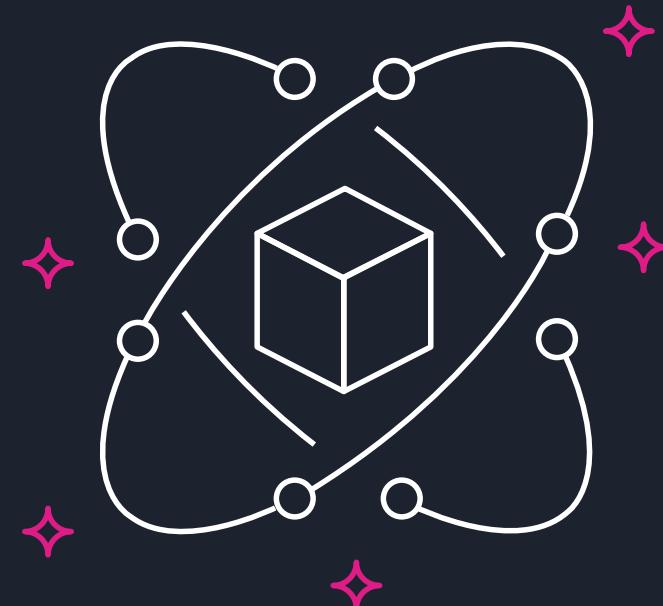
# Technology/Architecture Philosophy

- Avoid “undifferentiated heavy lifting” at the beginning
- Resist the temptation to add complexity unnecessarily
- Don’t introduce endogenous churn
- De-risk by transferring that risk to your provider
- Don’t be intimidated by the unknown



# Prioritize Managed Services

- Choose the highest level of abstraction available to you that gets the job done
- You can always choose to de-abstract down the road, the reverse is much harder
- Non-functional requirements are baked in to managed services
- Operations burden is significantly reduced
- Security risks are significantly (but not completely) reduced



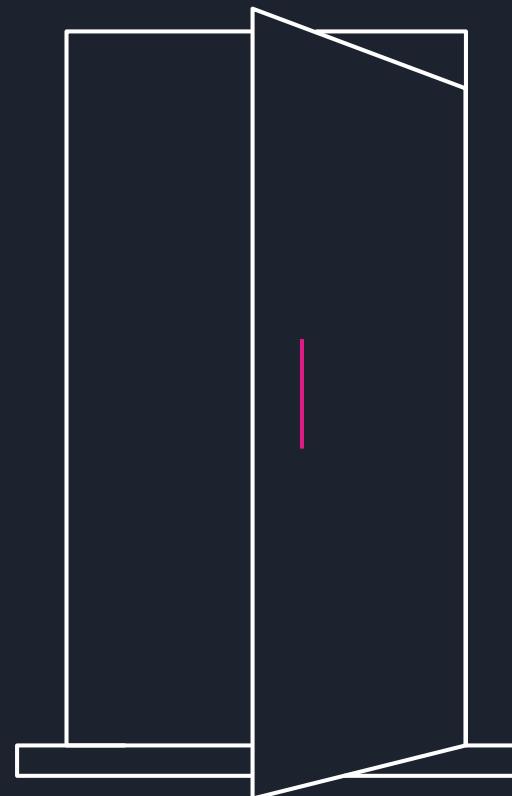
# Minimize Throwaway Work

- Minimize, but don't expect to eliminate re-work
- PMF can be described as a point where your product is breaking under growth
- Let your user feedback and desired outcomes drive changes, not technical debt
- The iterative learning cycle can mean evolution over revolution



# Make Reversible Decisions Quickly

- At Amazon we call these decisions “two way doors”
- What is the cost/difficulty of reversing the decision?
- How do I measure the outcome?
- How do revert the decision?
- Be prepared to be wrong a lot initially

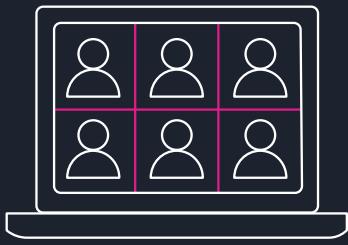


# Externalize State

- Separating state from logic gives you optionality, scaling, and flexibility
- It also introduces new challenges and risks you need to manage



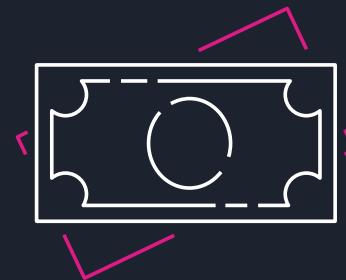
# Externalize Authentication



User management  
is the pinnacle of  
“undifferentiated  
heavy lifting”



One of the highest  
risk components in  
the architecture



Payments is  
another prime  
example of this

# Building Guardrails



# Build Guardrails, Not Gates

- Includes but not limited to both security and operations
- Teams should spend time solving problems that move the business ahead
- Experimentation should be encouraged
- Seeing the results of a change should be immediate
- Time spent firefighting, waiting on people or processes, or doing rework is waste
- Hiring talent is hard enough



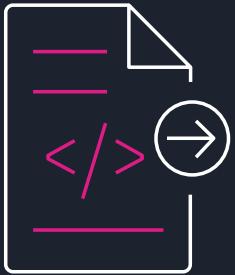
# Onboarding

- As you grow your team the ease and safety of onboarding new developers is critical
- You will have varying levels of trust
- A single source of truth for identity will make your life much easier
- Start documenting expected standards and processes early



# Onboarding

Consider the differences in:



the ability to  
push code



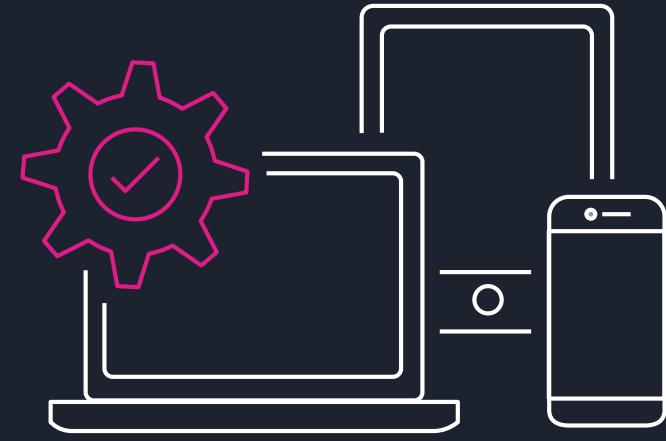
access  
production  
systems



access  
production  
data

# CI/CD

- Leverage the benefits of small, fast units of deployment
- If you aren't shipping those updates, you are missing the primary benefit
- Working on an MVP without CI/CD is like trying to "roll a cube"
- How much CI/CD is right initially?
- Does anyone really write tests?



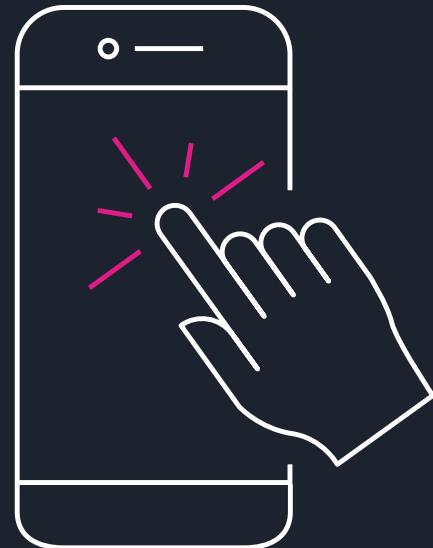
# Observability

- Observability is what brings confidence to move quickly
- How do you know the impact of your changes?
- When do you need to rollback quickly?
- Key components:
  - Metrics
  - Logging
  - Tracing



# Synthetics

- You want to find issues **before** your customers/users do
- Continually verify your customer experience (even when you don't have any customer traffic)



What level of confidence  
do you have in quickly  
making changes to your  
application today?

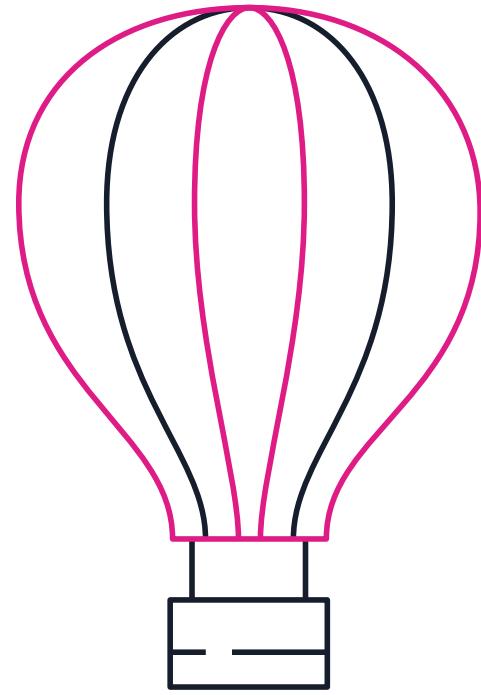


# Surviving The Unexpected



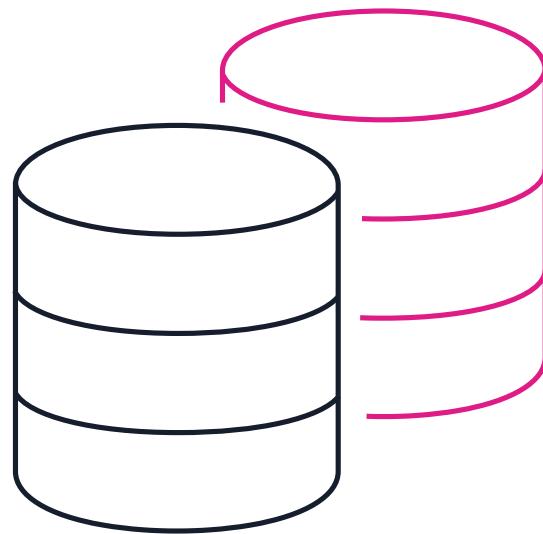
# Every Once In Awhile, Look Up

- It's easy to get tunnel vision when focused on the product
- There are important ways to minimize existential risk in your environment
- Don't wait until the loss would be catastrophic
- **Minimize, not eliminate**



# Managed Backups

- Managed services help guard against failure
- They don't protect you from accidents, errors, and malice
- Centralize and automate data protection
- Covers storage volumes, databases, and filesystems
- Validate and test the process before you need it



# Cost Visibility

- Ensuring you have visibility into your costs is critical to planning process
- Understanding your costs helps you reason about feature viability
- Unexpected spikes are indicators of a problem that you want to be aware of quickly
- Track your AWS credit usage
- Use budget alarms

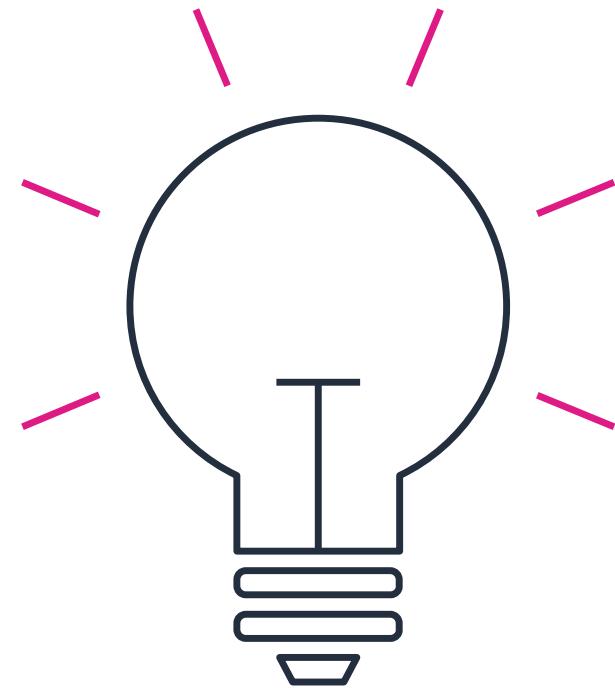


# Understanding Your Users



# Validated Learning Drives MVP Iteration

- Learning what resonates with your users is a core purpose of your MVP
- Determine how users are actually using your MVP
- The only users that have value are active users
- User metrics are different than operational metrics
- Investors will expect you to be an expert on your users and their experience with your solution



# Measuring User Activity

- What are unexpected high use features?
- Where do you see unexpected drop off/abandonment?
- How do you need to update your hypothesis?
- If you can log it, you can build metrics around it.



# Integrating Offline Tasks



# Fake It Until You Make It

- Your MVP might look different to your users than from the inside
- Manual processes are normal and to be expected
- You can still track them to ensure good customer experience
- Lay the groundwork for future automation

# Tracking Manual Work with Step Functions

- You can leverage workflow co-ordination between systems
- You can loop in humans with yes/no decisions via email
- Applies to any back office process



# JavaScript Frameworks and Trends 2021



# From LAMP to MEAN to JAM Stack

LAMP Stack



MEAN Stack



express



JAM Stack

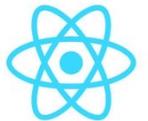


<https://mryap.github.io/From-LAMP-to-JAM/>

# JAM Stack

**J**

Javascript



**A**

APIs



**M**

Markup

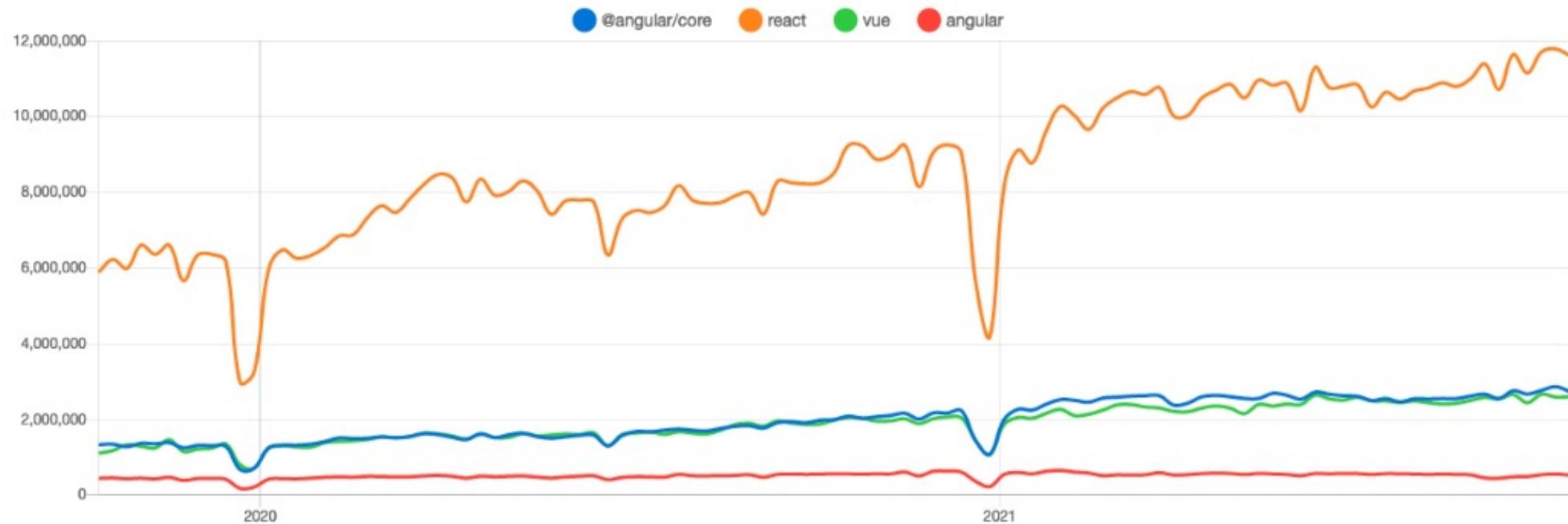


<https://www.freecodecamp.org/news/what-is-the-jamstack-and-how-do-i-host-my-website-on-it/>



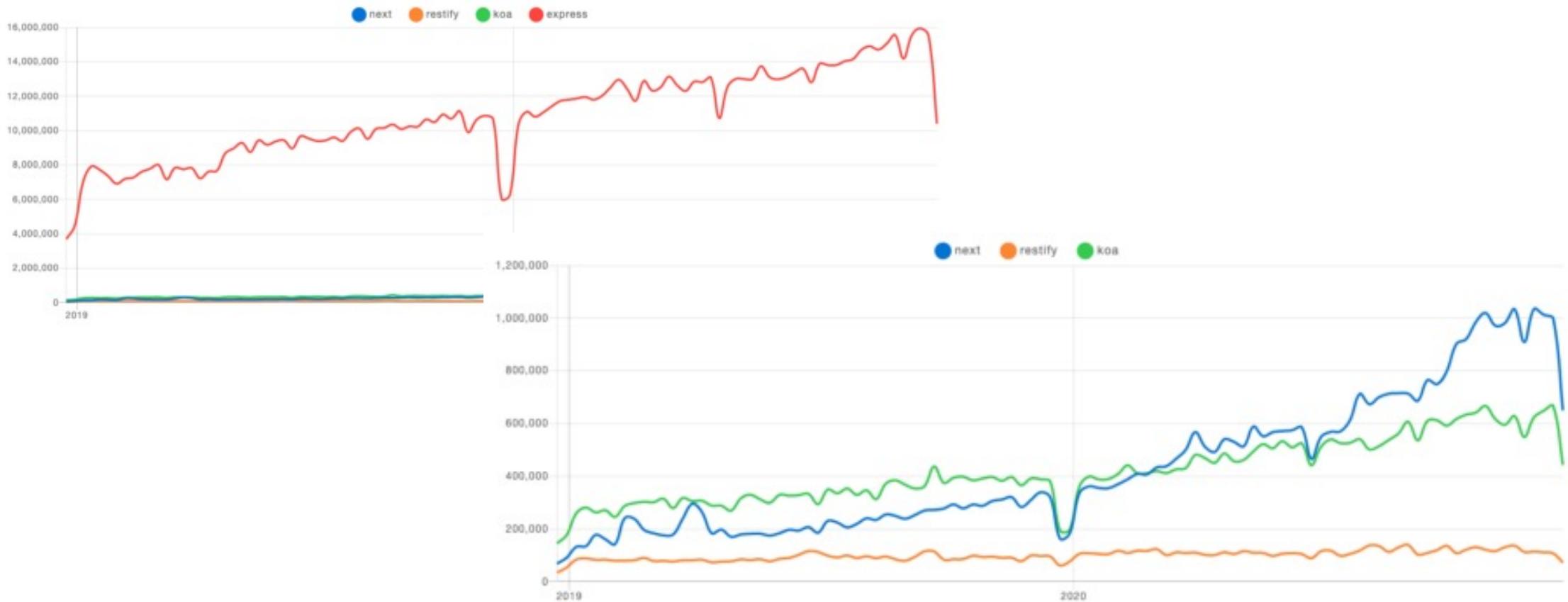
# JavaScript Frameworks and Trends 2021

Downloads in past 2 Years ▾



[@angular/core-vs-react-vs-vue-vs-angular](https://www.npmtr...)

# Server Side - JavaScript frameworks and Trends 2021

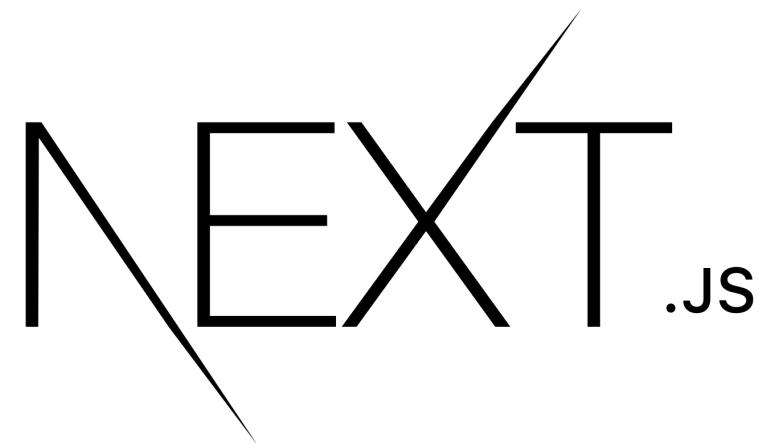


[@angular/core-vs-react-vs-vue-vs-angular](https://www.npmtr...)

# NEXT.JS

*"The React Framework for production"*

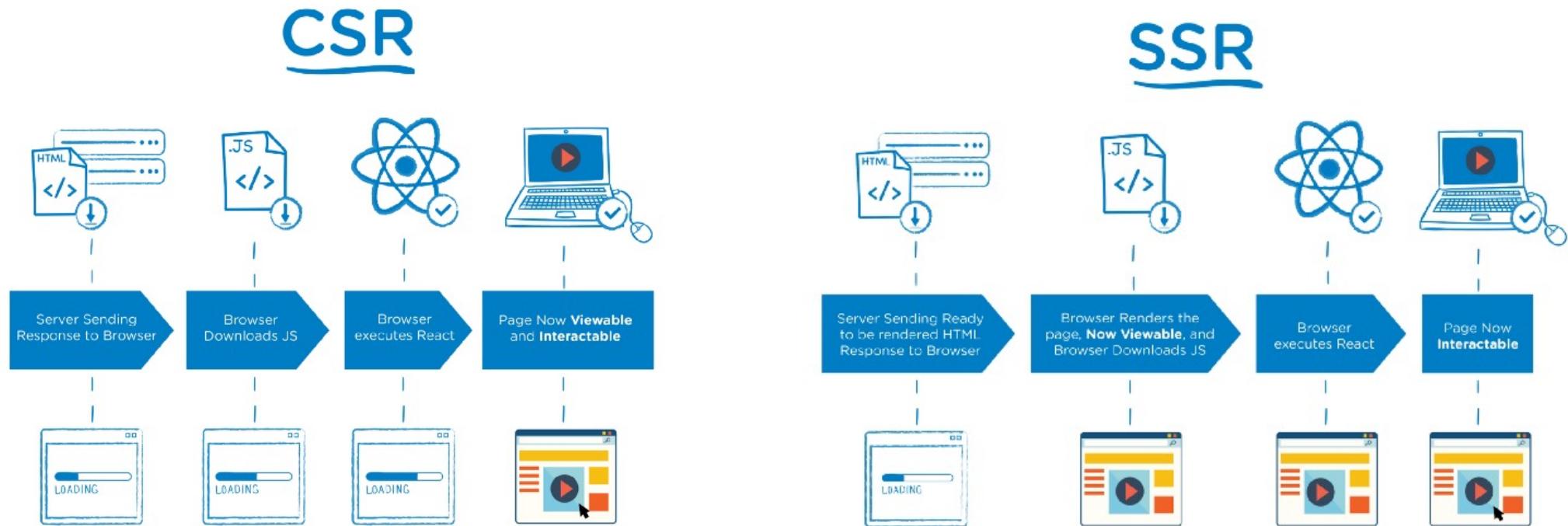
- A framework created by [Vercel](#)
- Open source - MIT License  
(<https://opensource.org/licenses/MIT>)
- Based on Node.js and Babel
- NestJS is a framework that helps us to build efficient, scalable Node.JS server-side applications.
- NestJS uses progressive Javascript and uses a combination of OOP (Object Oriented Programming), FP (Functional Programming), and FRP (Functional React Programming).
- <https://nextjs.org/conf> (Oct 26th)



<https://nextjs.org/>



# Client Side Rendering (CSR) and Server Side Rendering (SSR)

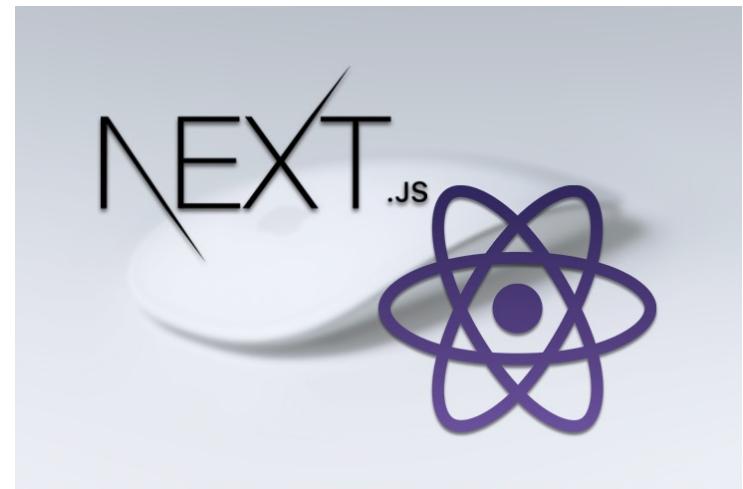


<https://medium.com/walmartglobaltech/the-benefits-of-server-side-rendering-over-client-side-rendering-5d07ff2cefe8>



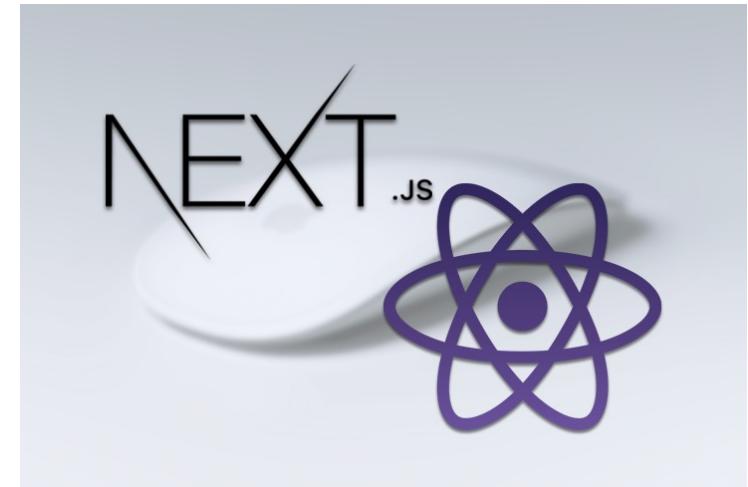
# Next.JS vs React and Next.JS + React

- Both provide great opportunities for developers in their own ways
- Dependent on your requirements and needs
- Do your own research
- "Pick the right tool, for the right job"



# Next.JS and React

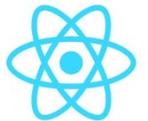
- <https://blog.logrocket.com/next-js-vs-create-react-app/>
- <https://www.solutelabs.com/blog/nextjs-react-comparison>
- <https://www.byteant.com/blog/next-js-vs-gatsby-meeting-points-differences-and-the-best-ways-to-use/>
- <https://www.strivemindz.com/blog/why-should-you-move-to-next-js-from-react-js/>
- <https://medium.com/walmartglobaltech/the-benefits-of-server-side-rendering-over-client-side-rendering-5d07ff2cefe8>



# JAM Stack

**J**

Javascript



**A**

APIs



**M**

Markup



<https://www.freecodecamp.org/news/what-is-the-jamstack-and-how-do-i-host-my-website-on-it/>



# AWS Amplify



# Users are accomplishing more virtually. How will your application stand out?



**5B (+1.2B)**

Mobile internet users by 2025



**3.6 hours**

Daily time on mobile per user



**24 GB (+17 GB)**

Monthly mobile data usage per subscriber by 2024



**25%**

Apps abandoned after first use



**4M+**

Apps published to global app stores you need to compete with for mindshare

Source: GSMA

Source: Mary Meeker's Internet Trends 2019

Source: GSMA

# To meet & **exceed user expectations**, the front-end developer assumes broad responsibility



## Platform(s)

Native mobile and web app?



## Differentiation

Innovative & new ways to interact

How can your app stand out?



## Screen and mobility

Responsive and progressive

Always available, even offline



## Security

AuthN and AuthZ by default



## Data layer

Instantaneous, with real-time feedback

Network friendly (fewer calls/more data/just right)



## Time to market

Iterative, full-stack development

Developer productivity and team workflows

Ability for non-developers to manage the app

# Amplify provides a full-stack developer experience across 10 feature categories

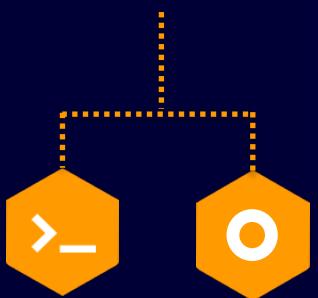
## DEVELOP



Configure AWS backends fast



Seamlessly connect front ends



CLI

Admin UI

Libraries and  
UI components

## FEATURE CATEGORIES

Authentication

DataStore

Storage

API (GraphQL & REST)

Functions

Analytics

PubSub

Predictions

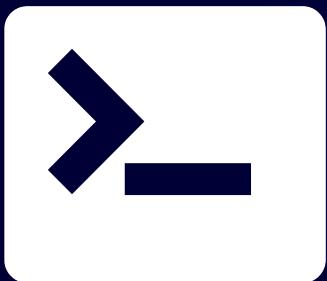
Interactions

Notifications

*Powered by AWS services, such as AWS AppSync (GraphQL API) and Amazon Cognito (authentication)*

# AWS Amplify CLI

## Usage



CLI



```
$ amplify init  
$ amplify add api  
$ amplify push  
$ amplify update api
```

# AWS Amplify CLI

AMPLIFY ADD API

API (GraphQL)

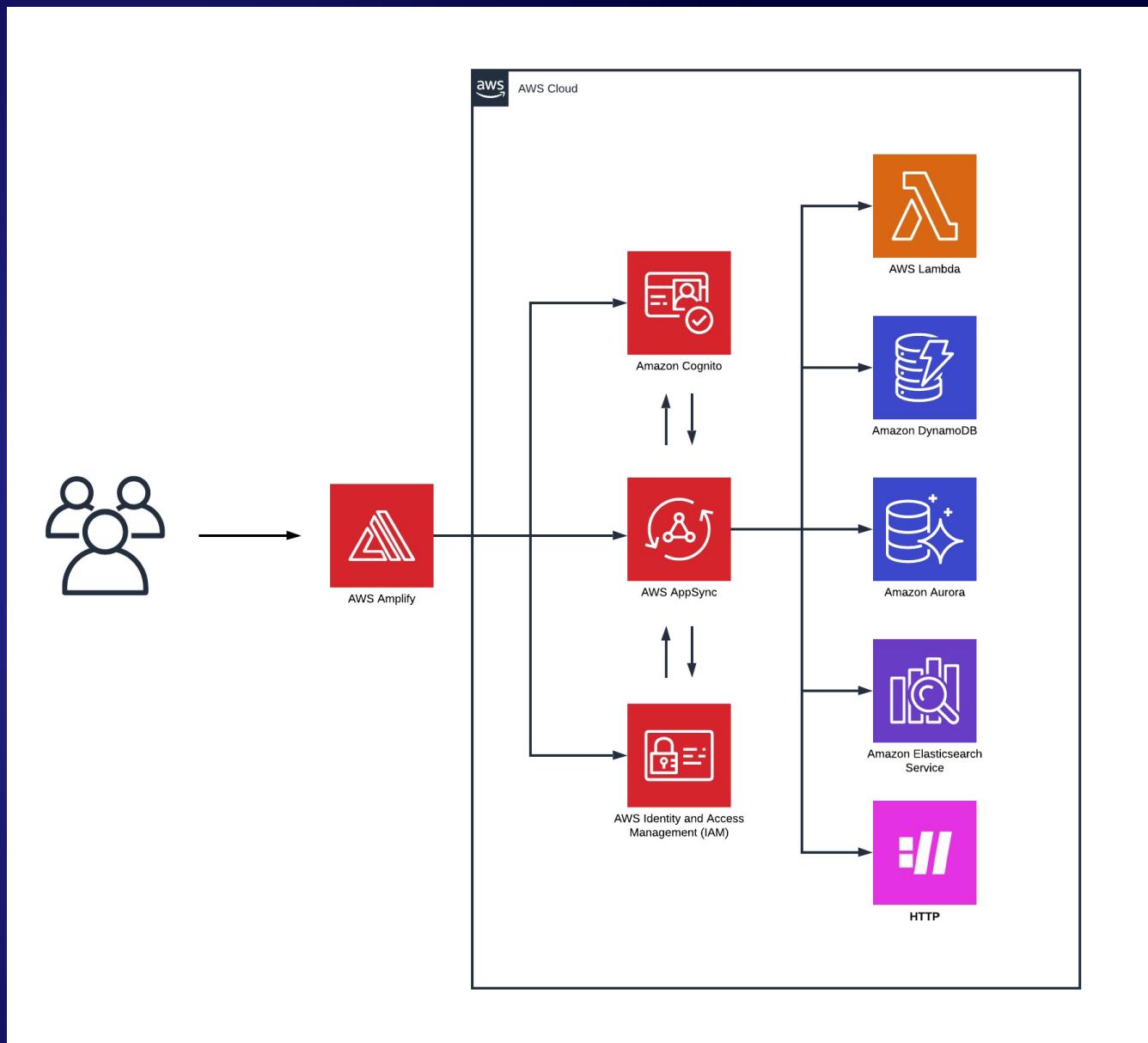
AWS AppSync

Amazon DynamoDB

AWS Lambda

Amazon Elasticsearch Service

Amazon Aurora Serverless



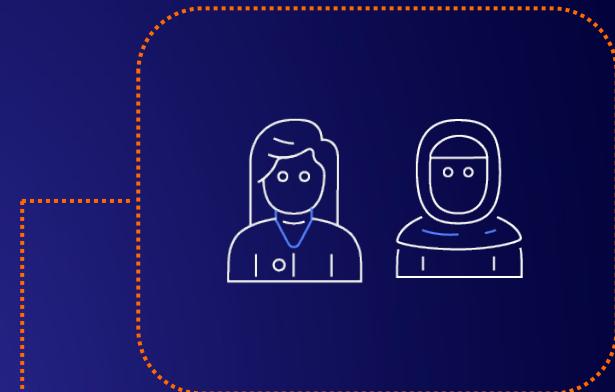
# Create backend with the admin UI & CLI



Model data and relationships



Set up authentication and authorization



Team collaboration with or without AWS account

```
> curl -sL https://install.amplify.aws/cli  
| bash && $SHELL  
> amplify add function
```

Extend with CLI toolchain to add functions, storage, and more

# Example: Create backend for a field service app in the admin UI

## Dispatcher

- Create appointments with many associated tasks
- Create and update data across all appointments

## Agent

- Only see **my** appointments and tasks

The screenshot shows the AWS Amplify Admin UI interface. It displays three models being configured:

- WorkOrderStatus**: Contains two static values: "OPEN" and "CLOSE".
- Appointment**: Contains fields: id (ID type), description (String type), scheduledTime (AWSDateTime type), serviceRegion (String type), and shift (String type). It also defines a relationship named "workOrders" that connects to the "WorkOrder" model.
- WorkOrder**: Contains fields: id (ID type), serviceRegion (String type), description (String type), status (WorkOrderStatus type), and appointmentID (Relationship type, pointing back to the "Appointment" model).

At the bottom right of the interface, there is a "Save and deploy" button.

```
> curl -sL https://install.amplify.aws/cli | bash && $SHELL  
> amplify pull
```

# Example: Create backend for a field service app in the CLI

## Dispatcher

- Create appointments with many associated tasks
- Create and update data across all appointments

## Agent

- Only see **my** appointments and tasks

```
enum WorkOrderStatus {  
  OPEN  
  CLOSE  
}  
  
type workorder  
  @model  
  @auth(rules: [{allow: public}])  
  @key(name: "byAppointment", fields: ["appointmentID"]) {  
    id: ID!  
    serviceRegion: String!  
    description: String!  
    status: WorkOrderStatus!  
    appointmentID: ID!  
}  
  
type Appointment @model @auth(rules: [{allow: public}]) {  
  id: ID!  
  description: String!  
  scheduledTime: AWSDateTime  
  serviceRegion: String!  
  workOrders: [workorder] @connection(keyName: "byAppointment", fields: ["id"])  
}
```

> amplify add <functions | api | notifications | ...>

# Connect to your backend with UI components & libraries for popular mobile/web frameworks



Android



iOS



React Native



Ionic

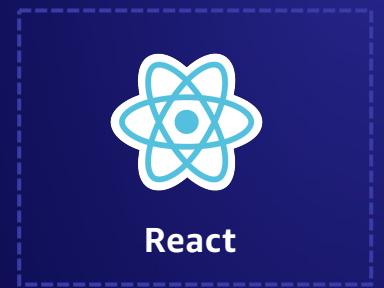


Flutter

NEW!



JavaScript



React



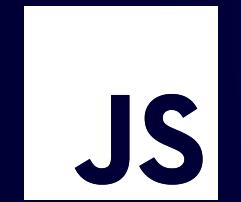
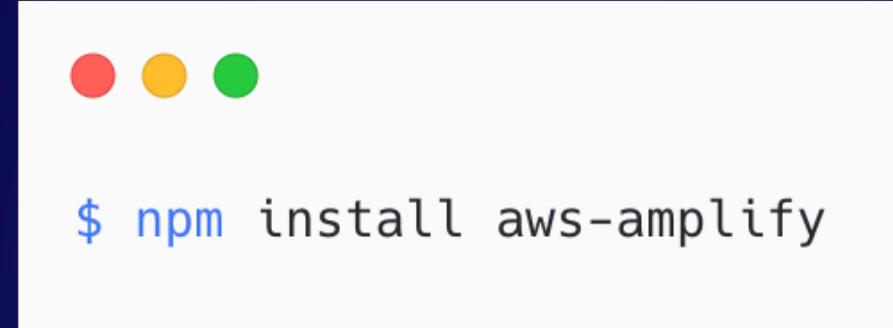
Angular



Vue

# Amplify client libraries

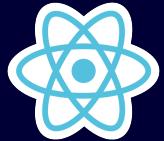
WEB



Usage



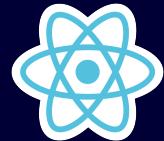
# Example: Add sign-up/sign-in flows using the Amplify React UI component



Installation



```
$ npm install @aws-amplify/ui-react
```



import

```
import {AmplifyAuthenticator, AmplifySignOut} from "@aws-amplify/ui-react";
```

# Example: Add sign-up/sign-in flows using the Amplify React UI component

```
const App = () => (
  <AmplifyAuthenticator>
    <div>
      My App
      <AmplifySignOut />
    </div>
  </AmplifyAuthenticator>
);
```



The image shows a sign-up form titled "Create a new account". It includes fields for "Username \*", "Password \*", "Email Address \*", and "Phone Number \*". There is also a dropdown for phone number country code. At the bottom, there is a link "Have an account? Sign in" and a blue "CREATE ACCOUNT" button.

Create a new account

Username \*

Password \*

Email Address \*

Phone Number \*

+1 ▾ (555) 555-1212

Have an account? [Sign in](#)

**CREATE ACCOUNT**

# AWS Amplify

- <https://aws.amazon.com/amplify/>
- <https://docs.amplify.aws/>
- <https://github.com/aws-amplify/amplify-js>
- <https://amplify.aws/community/resources>



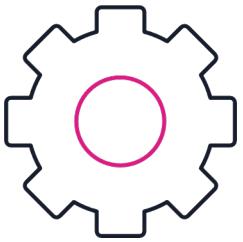
# Workshop - Pathways



# AWS Live Coding – Crash Course

Video with GitHub reference (30 minutes)





## Technical Depth

Level L200-L00+ (Intermediate)

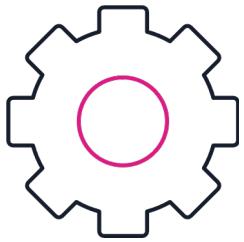
## Delivery mode

Live coding (Video)

GitHub repository (Reference)

## Time required

30 mins



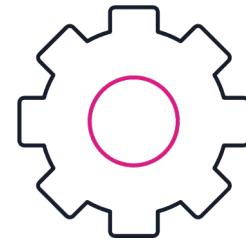
## Suited to

Those who just want to watch  
and learn

Don't want to code or code today

Don't have developer permissions  
on laptop

Don't have access to an AWS  
account



## Environment and prerequisites

Internet access for Video  
(YouTube)

# **Next.js with AWS Amplify Admin UI Crash Course**

You'll learn how to

- Build a full stack Next.js app on AWS in less than 25 minutes.
  - Live Project : Blogging app
- You'll learn how to :
  - Deploy an API on AWS and connect a Next.js front end
  - Implementing markdown rendering, build time data fetching, dynamic routes to pre-render based on data, SSR, fallback routes, revalidation, and client data fetching.



# Next.js with AWS Amplify Admin UI Crash Course

- Live coding video (25 mins) : <https://youtu.be/bQ1Giqn5G38>
- GitHub : <https://github.com/dabit3/next.js-amplify-datastore>
- Check out the Amplify Admin UI sandbox here: <https://sandbox.amplifyapp.com/>

Quick link:

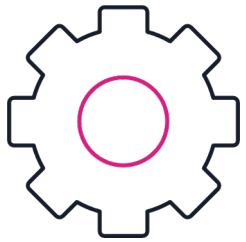
<https://rebrand.ly/b85ub8s>



# Advanced ~ Expert Level - GitHub Project

In this workshop you will learn how to build a full stack  
cloud application with Next.js, Tailwind, & AWS Amplify.





## Technical Depth

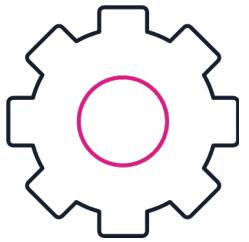
Level L300/400+  
(Advanced/Expert)

## Delivery mode

Self-paced  
GitHub repository

## Time required

2-4 hours



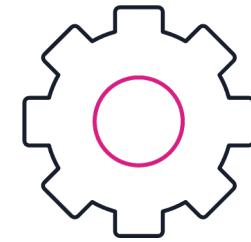
## Suited to

Developers, who have advanced knowledge of

Git experience

Knowledge of common dev tooling e.g. npm, yarn

Good with debugging



## Environment and prerequisites

Workstation permissions (developer)

Ability to install dependencies  
- Node.js v10.x or later  
- npm v5.x or later  
- git v2.14.1 or later

(Existing) Access to an AWS Account

# Workshop / App overview

In this workshop you will learn how to build a full stack cloud application with [Next.js](#), [Tailwind](#), & [AWS Amplify](#).

We'll start from scratch, creating a new Next.js app. We'll then, step by step, use the [Amplify CLI](#) to build out and configure our cloud infrastructure and then use the [Amplify JS Libraries](#) to connect the Next.js app to the APIs we create using the CLI.

- The app will be a multi-user blogging platform with a markdown editor.

*When you think of many types of applications like Instagram, Twitter, or Facebook, they consist of a list of items and often the ability to drill down into a single item view. The app we will be building will be very similar to this, displaying a list of posts with data like the title, content, and author of the post.*



# Outcome of workshop (Live app)

Home Create Post Profile My Posts

Create new post

Title

B I H | | Create Post

lines: 1 words: 0 0:0

**Create Post**

Home Create Post Profile My Posts

## How to share dependencies across Serverless functions with AWS Amplify and Lambda layers

by dabit3



Full Stack Serverless applications incorporate the following three characteristics:

1. Decoupled frontends
2. Infrastructure as code
3. Serverless technologies for maximum scalability with minimum devops

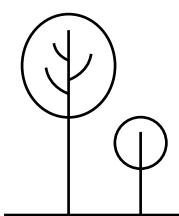
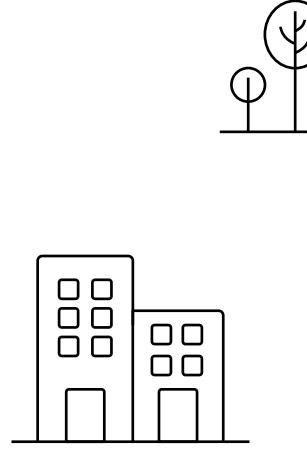
Home Create Post Profile My Posts

### My Posts

**Full Stack Development in the Era of Serverless Computing**  
Author: dabit3  
[Edit Post](#) [View Post](#) [Delete Post](#)

**Post with headings and code**  
Author: dabit3  
[Edit Post](#) [View Post](#) [Delete Post](#)

**How to share dependencies across Serverless functions with AWS Amplify and Lambda layers**  
Author: dabit3  
[Edit Post](#) [View Post](#) [Delete Post](#)



# **Advanced ~ Expert GitHub project**

## **- Next.js, Tailwind, & AWS Amplify**

- GitHub : <https://github.com/dabit3/next.js-amplify-workshop>
- Live coding video (1hr 20 mins) :  
<https://www.youtube.com/watch?v=13nYLmjZ0Ys&t=1274s>

Quick link:

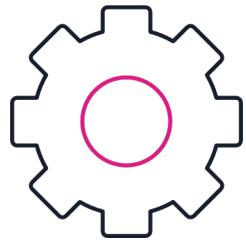
<https://rebrand.ly/ppihxsh>



# AWS Workshop (Amplify)

This hands-on lab will build a full-stack serverless application on AWS using [Amplify](#), [Next.js](#), [GraphQL](#)





## Technical Depth

Level 200-300+ (Intermediate)

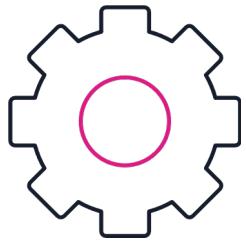
## Delivery mode

Self-paced

Lab instructions

## Time required

2-4 hours

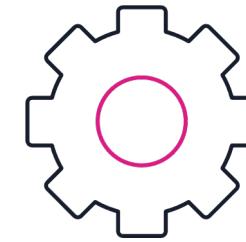


## Suited to

Developers, who have advanced knowledge of :

Git experience

Awareness of common developer tooling



## Environment and prerequisites

Workstation permissions (developer)

Ability to install dependencies  
- Node.js v10.x or later  
- npm v5.x or later  
- git v2.14.1 or later

(Existing) Access to an AWS Account

OR : AWS Event / AWS Lab Environment

# Workshop / App overview

- This hands-on lab will build a full-stack serverless application on AWS using [Amplify](#), [Next.js](#), [GraphQL](#)
- Application we will build is going to be a Reddit-like message forum.
- Once users follow this guide, they will have a working application running on AWS.



# Outcome of workshop (Live app)



## Amplify Forum

Welcome to Amplify Forum

Software Engineering  
2021-05-14T10:11:56.064Z

Stock Investment  
2021-05-14T10:12:08.566Z

Real Estate  
2021-05-14T10:12:15.316Z

Add New Topic

SIGN OUT

Working demo: <https://dev.d2j3zmrl7b2iga.amplifyapp.com>



# Next.js with AWS Amplify Intermediate (workshop)

Workshop :

<https://build-message-forum-with-amplify.workshop.aws/en/>

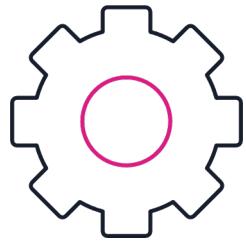
Quick link:

<https://rebrand.ly/zuyxyuz>



# Future event





## Technical Depth

Level 200-300+ (Intermediate)

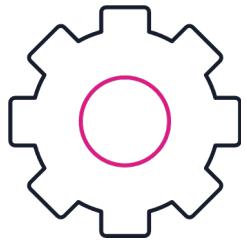
## Delivery mode

Self-paced

Lab instructions

## Time required

2-4 hours

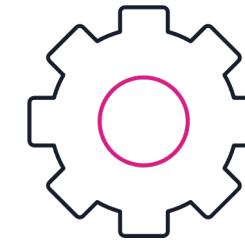


## Suited to

Developers, who have advanced knowledge of :

Git experience

Awareness of common developer tooling



## Environment and prerequisites

Workstation permissions (developer)

Ability to install dependencies

- Node.js v10.x or later
- npm v5.x or later
- git v2.14.1 or later

(Existing) Access to an AWS Account

OR : AWS Event / AWS Lab Environment

# I would like to complete a detailed hands on workshop

- Based on demand and interest. Will run a future 0.5 day event (3-4 hours)
- Will include AWS Lab Accounts for registered attendees
- Date TBD : *Approx. targeted 2-4 weeks*
- Register interest :

<https://rebrand.ly/kft8or2>



# Future event



# Learning pathways

## Option A: Watch and learn

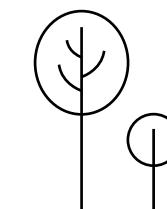
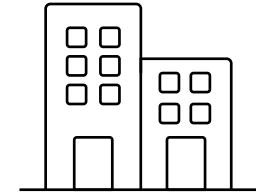
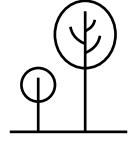
- 30 mins; YouTube video
- <https://rebrand.ly/7mperhq>

## Option B: Don't have an existing AWS account and/or developer workstation

- Interested in a future ½ day event
- <https://rebrand.ly/kft8or2>

## Have an existing AWS account

- 2-4 hours. Self paced
  - Option C: Intermediate  
<https://rebrand.ly/zuyxyuz>
  - Option D: Advanced/Expert  
<https://rebrand.ly/ppihxsh>





# Thank you

Chris Modica  
Principal SA, ANZ

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-  ln/christophermodica
-  cmodica@amazon.com

