



From Monolith to Islands: The Journey to Developers' Happiness

#truliaislands



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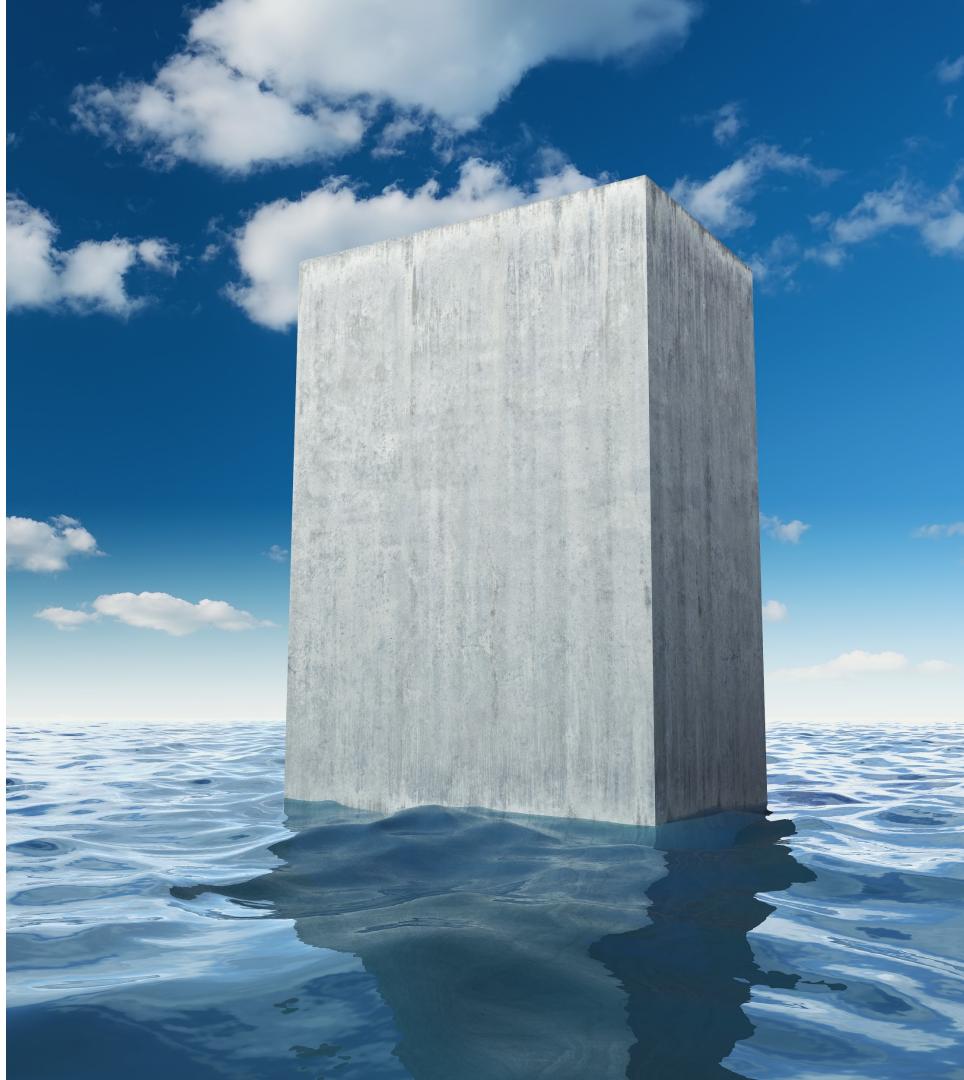
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A photograph of a suburban neighborhood featuring two houses. In the foreground, a woman with long dark hair is crouching on a sidewalk, interacting with a young boy who is riding a small tricycle. Another young boy stands nearby, also on a tricycle. The houses have well-maintained lawns and flower beds. The house on the left is brown with a red roof and white trim around its porch. The house on the right is white with a green roof and a similar porch. The sky is overcast.

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Monolith

- Easy to break stuff
- Unused code with you forever
- Painful deployment





Our vision

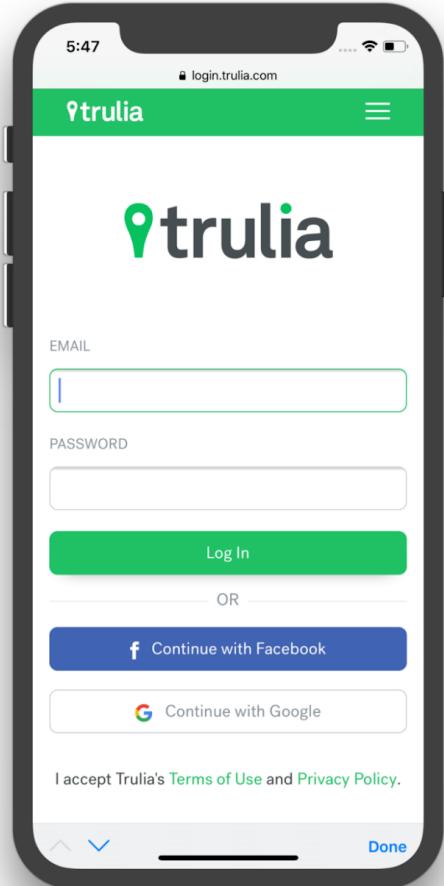
- Developer productivity
- Team autonomy
- No reinventing the wheel
- Tools for developers

“Islands”

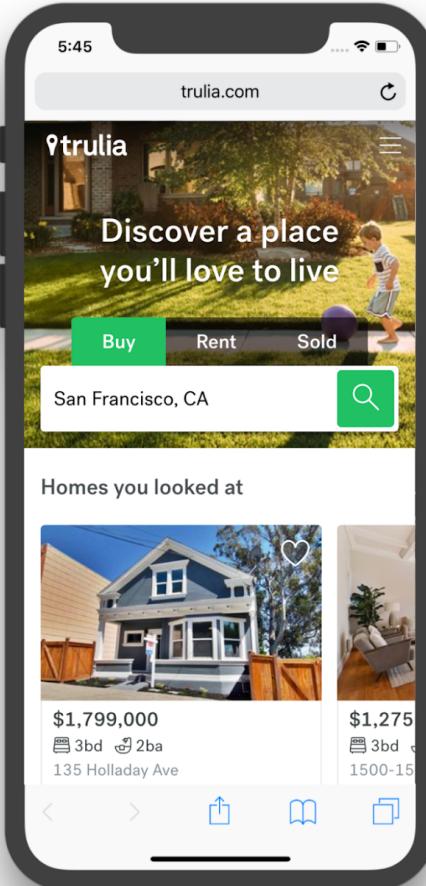
- Autonomous components
- Continuous deployment
- One island, one team
- Flexible technology stack
- Freedom to innovate



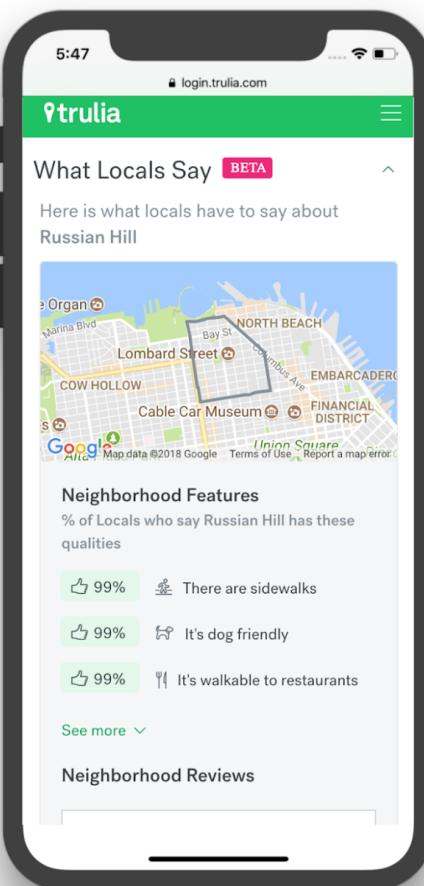
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Login

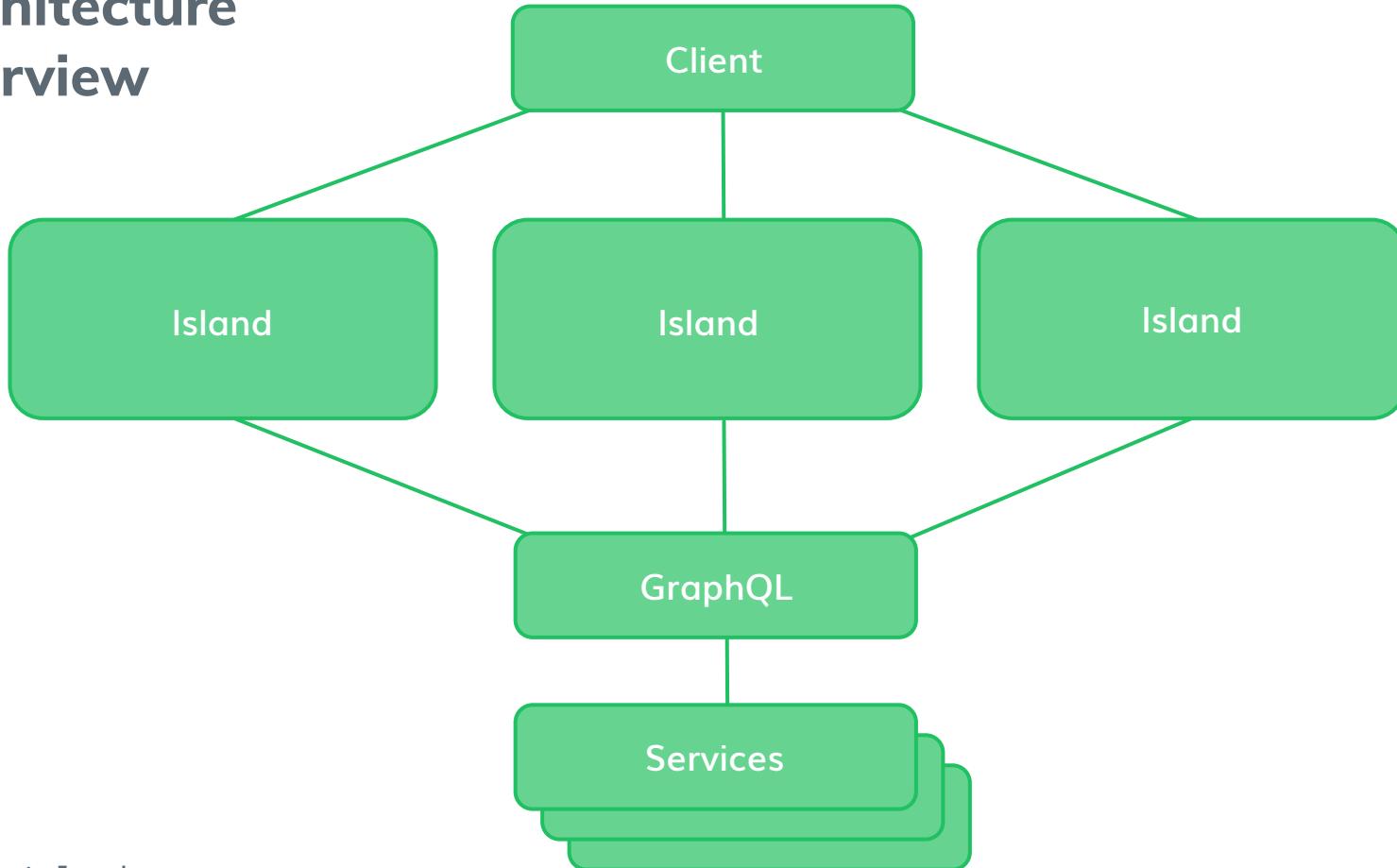


Homepage

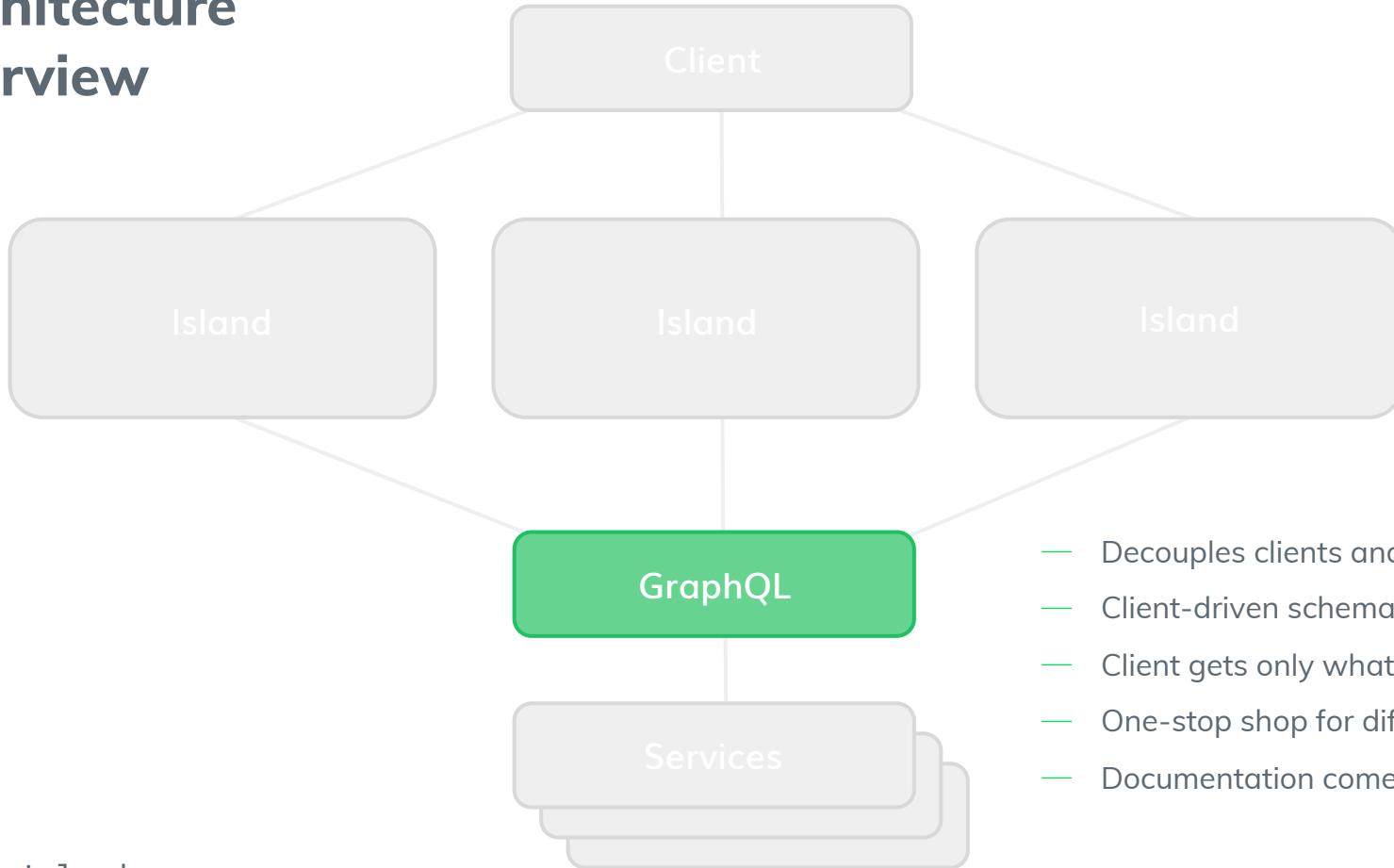


Local

Architecture overview

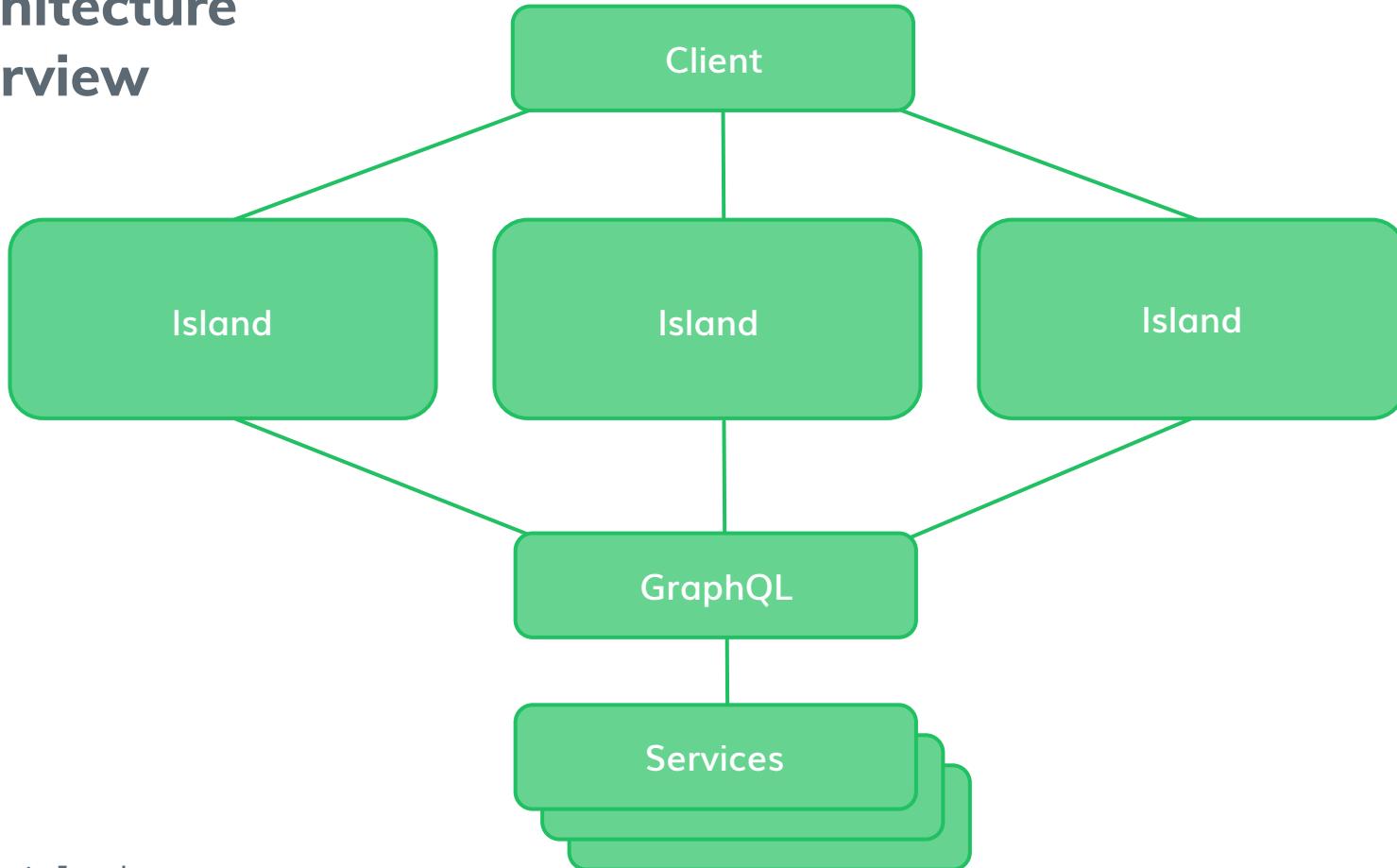


Architecture overview



- Decouples clients and services
- Client-driven schema
- Client gets only what's needed
- One-stop shop for different APIs
- Documentation comes “for free”

Architecture overview



island

island component

application shell

next.js framework



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The Good Parts

- Zones
- Next Plugins
- Universal Webpack
- Environment Config
- Ecosystem + Examples

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components/withLayout.js

```
import React from 'react';
import Head from 'next/head';
import dynamic from 'next/dynamic';
import { provide, types } from 'ioc';

import { Injectable as HeaderInjectable } from './Header';
import { Injectable as FooterInjectable } from './Footer';

const BaseLayout = dynamic(import('../layouts/base'));
const DefaultLayout = dynamic(import('../layouts/default'));
const FocusLayout = dynamic(import('../layouts/focus'));

export default (Component) => {
  let Layout;

  switch (Component.useLayout) {

    // "empty" / Bring-Your-Own-Header layout
    case 'base':
      Layout = BaseLayout;
      break;

    // "intermediate" / layout for the pages requiring focused
    case 'focus':
      Layout = FocusLayout;
      break;

    // default (header / footer) layout
    default:
      Layout = DefaultLayout;
  }
}
```

Appshell

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entrypoints/forgotPassword.js

```
import React from 'react'
import propTypes from 'prop-types';
import { inject } from 'ioc';
import ForgotPassword from '../components/ForgotPasswordForm';

@inject({
  config: propTypes.object,
  tracking: propTypes.object
})
class ForgotPassword extends React.Component {

  static useLayout = 'focus';

  static getInitialProps() {
    const _page = { title: 'Forgot Password - Trulia' };
    return { _page };
  }

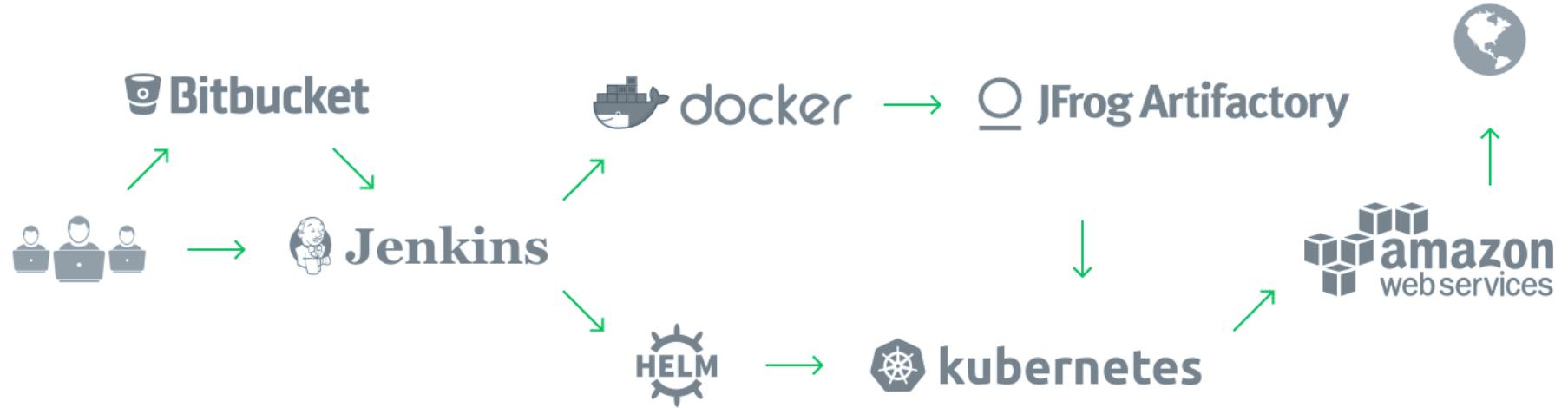
  componentDidMount() {
    const { tracking, config } = this.props;

    tracking.trackState({
      siteSection: config.public.site.section,
      pageType: config.public.site.pages.forgotPassword.type,
      pageDetails: 'standalone form',
      form: ForgotPassword.trackId
    });
  }

  render() {
    return (

```

Island



days

Deployment time with monolith

mins

Deployment time with “islands”

Takeaways

- Monolith to islands for team autonomy
- Appshell to avoid code duplication
- Deployment time down to minutes

Thank you

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github.com/trulia/islands-talk



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Yes, we're hiring!

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