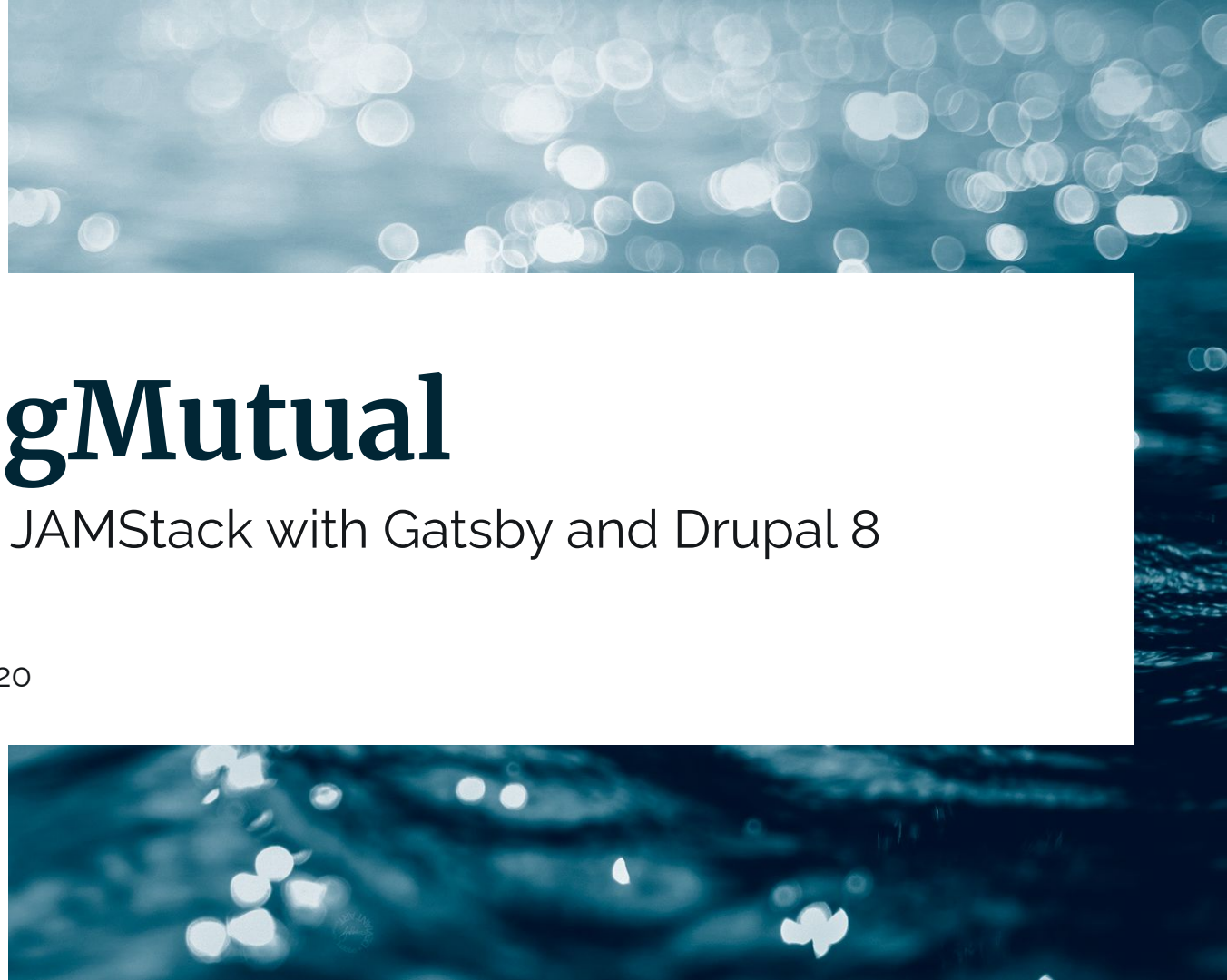


mediacurrent

MagMutual

On the JAMStack with Gatsby and Drupal 8

July 16, 2020

Today's Team

Ben Robertson

Customer Success
Gatsby

Bob Kepford

Director of Development
Mediacurrent

Mediacurrent: Open Source Expansion Partner

Who We Are

We are drupal pioneers, digital strategy experts, open source advocates, researchers, designers, and innovators who solve technology challenges .

Our Mission

To bring together the most talented team members to improve technology for our clients

Gatsby

The way to build the web for everyone

Our Mission

To create a better web for everyone, where security, performance, accessibility, and modern tooling are defaults, not afterthoughts.

Decoupled architectures can be a great approach for sites that require functionality beyond what Drupal normally supports. When you decouple, you have the opportunity to choose the best tool for individual technical requirements.

This session will be an inside look at our decoupled approach for MagMutual.com: combining open-source frameworks like Gatsby, Drupal 8, and Serverless, as well as third-party services for user management, a learning management system, and private APIs to build a robust custom platform.

This Session is For

Developers

Developers interested in decoupled Drupal, static sites, & the JAM Stack.

Marketer

Marketers looking for more flexibility in UX and branding. Separating their vision for the web from the CMS lifecycle

IT Professional

IT pros interested in building flexible resilient systems that give their teams security and flexibility

Learning Objectives

Objective 1

Breaking complex problems into smaller more discrete components

Objective 2

Drupal 8 as your content hub using JSON API and search API with Elasticsearch

Objective 3

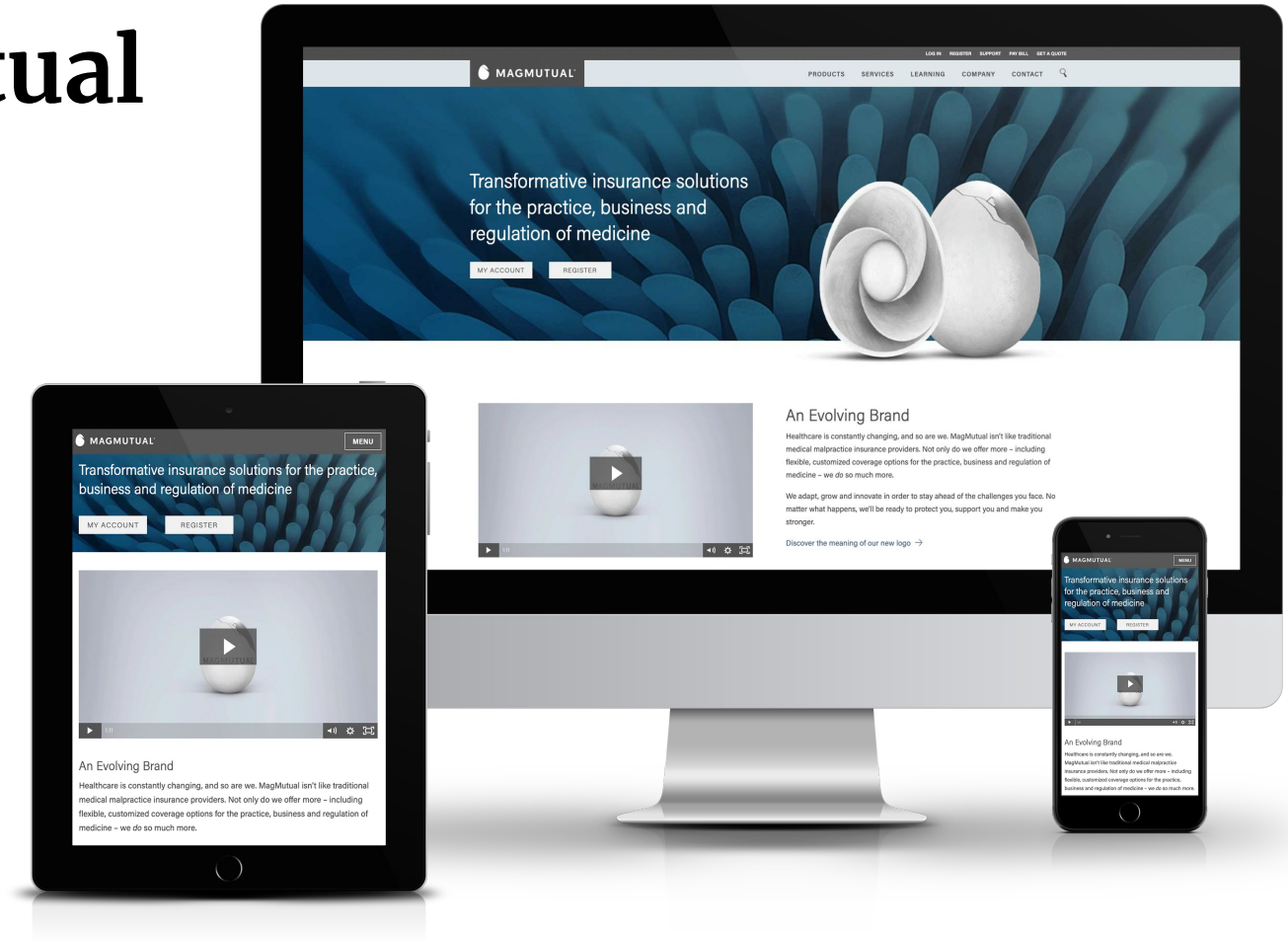
GatsbyJS with authentication, search, and a mix of static and dynamic content

MagMutual

For nearly four decades, MagMutual has been a leading provider of medical professional liability insurance.

MagMutual

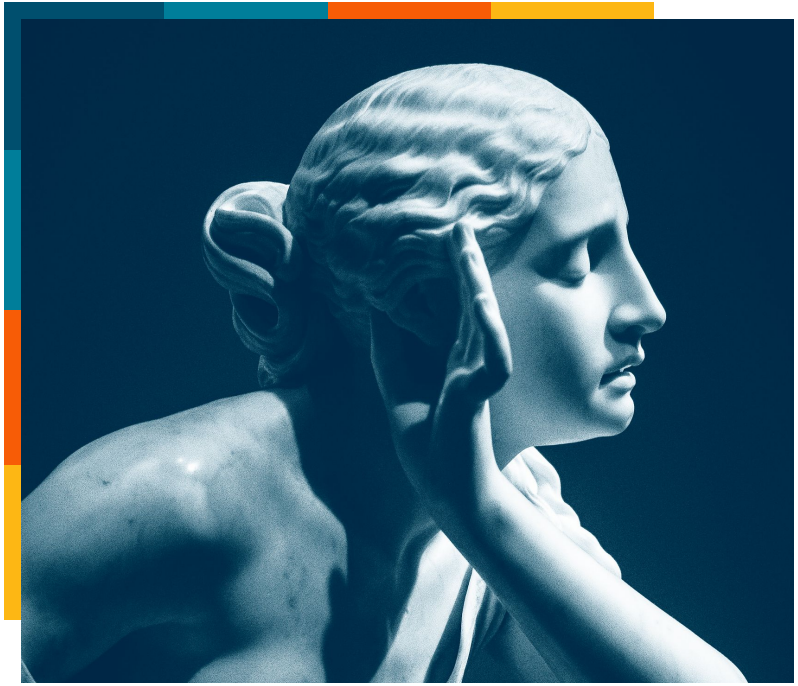
Over 30,000 physicians and healthcare organizations rely on MagMutual.com for learning resources, products, and services covering all aspects of healthcare liability



I would absolutely recommend Mediacurrent to people who are embarking on a Drupal 8 project. They come with a well-rounded team of strategists, UX/UI designers, and developers. Tapping into an organization like Mediacurrent that can share knowledge and align toward a common goal really creates the story for success -- from what we're able to deliver, to the results we're able to measure, to being able to stay on budget and on time.

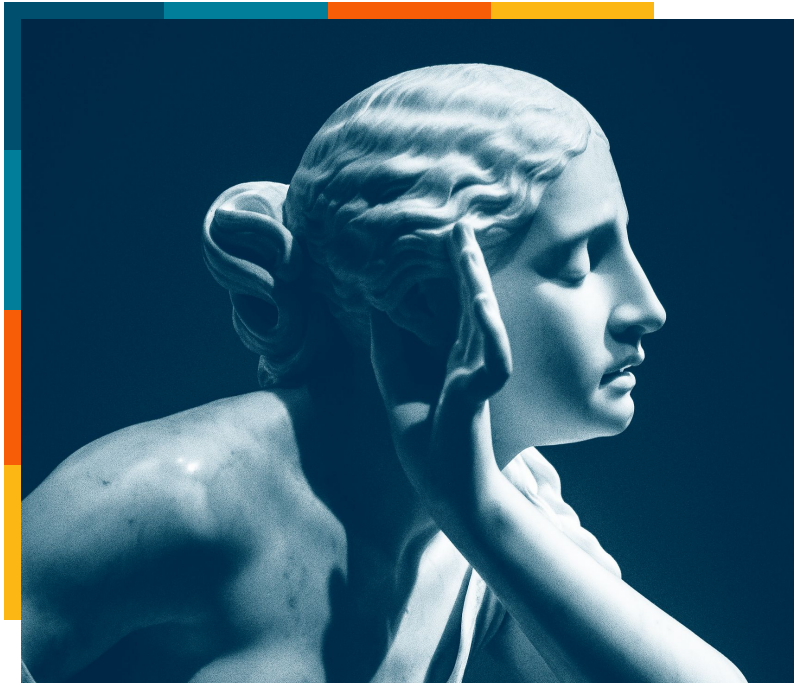
Sallie Graves

CIO of MagMutual Insurance Company



We Listened to Their Needs

- Rebrand
- Future proof
- Improve UX for policyholders
- Speed gains for authenticated and anon users



We Listened to Their Needs

- Single source of truth for user data
- Online learning integration
- Progressive learning tracks
- Maintainable and reliable SSO

MagMutual

The Challenge

- Complex Drupal 7 codebase
- Technical debt
- Extensive business logic
- AJAX (Asynchronous JavaScript And XML) based UX
- Data sync between Drupal other systems
- Difficult to understand code base
- Brittle and error prone custom D7 modules
- Drupal as authentication provider

The Solution

- Reviewing Architecture
- Volatility based decomposition
- Separation of concerns
- Using the right tools for each component of the system

Legacy Architecture

CMS / Drupal

Website / Drupal

Business Logic / Drupal

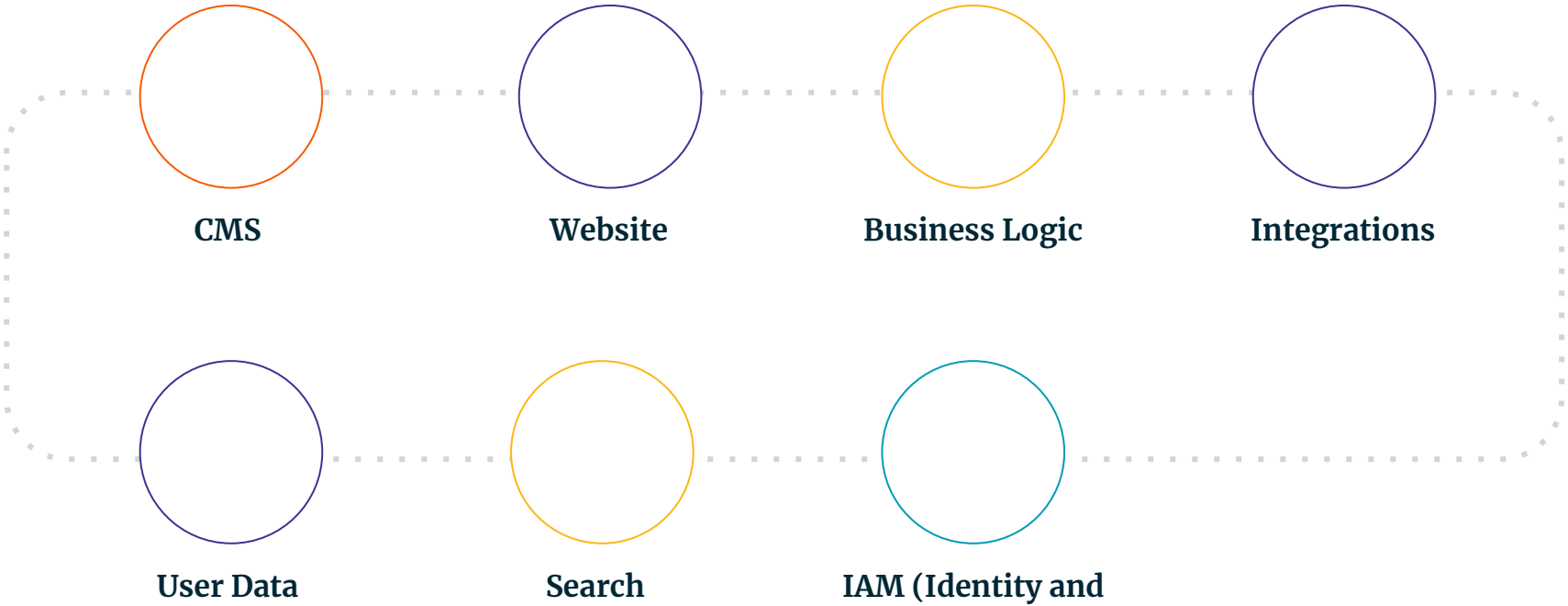
Integrations / Drupal

User Data / Drupal

Search / Apache Solr

IAM (Identity and Access Management) / Drupal SimpleSAML

The Components



New Architecture

CMS / Drupal

Website / Gatsby

AWS Deployment / Serverless

Business Logic, Integrations / Lambda

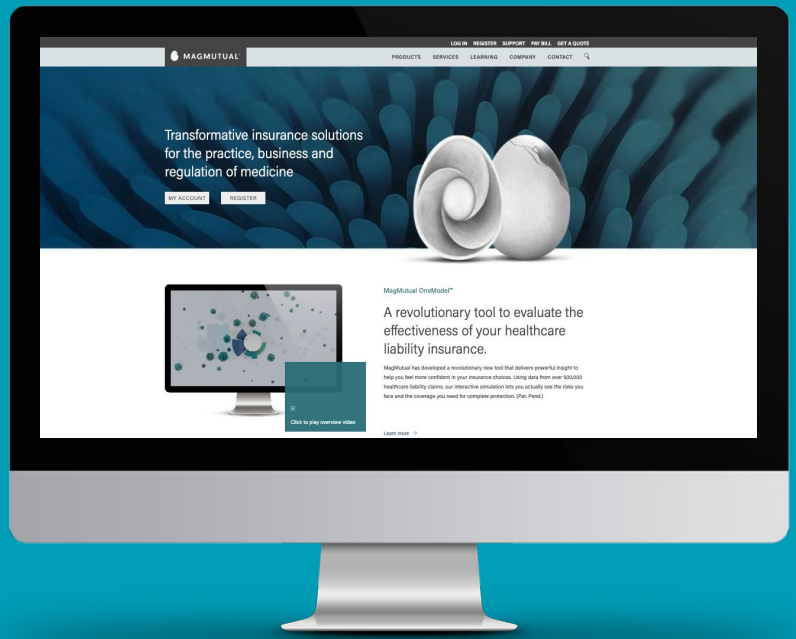
User Data / Apollo GraphQL

Search / Elasticsearch

IAM (Identity and Access Management) / Auth0

Before

After



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Transformative insurance solutions for the practice, business and regulation of medicine

MY ACCOUNT REGISTER

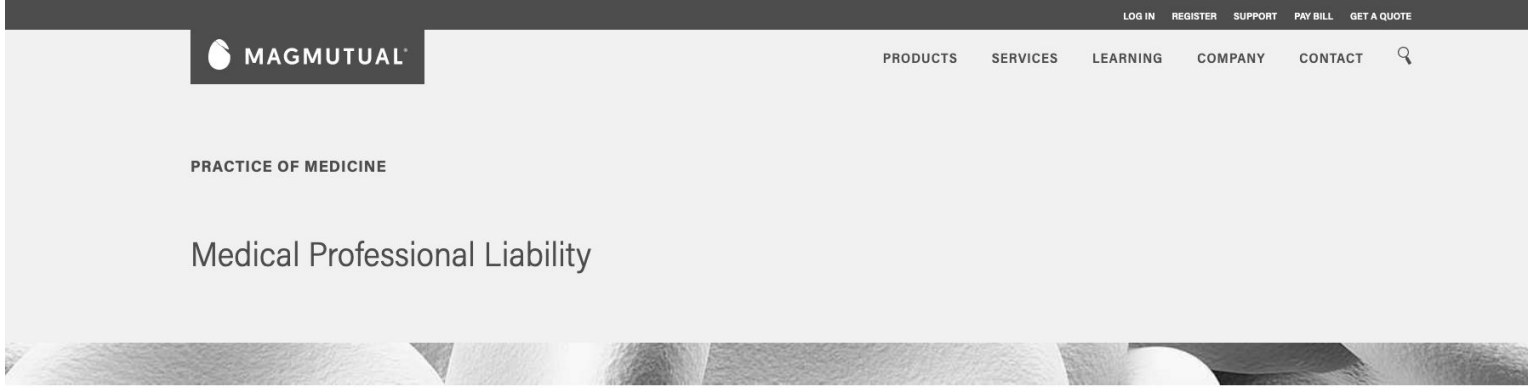
Click to play overview video

MagMutual OneModel™

A revolutionary tool to evaluate the effectiveness of your healthcare liability insurance.

MagMutual has developed a revolutionary new tool that delivers powerful insight to help you feel more confident in your insurance choices. Using data from over 500,000 healthcare liability claims, our interactive simulation lets you actually see the risks you face and the coverage you need for complete protection. (Pat. Pend.)

Learn more →



MagMutual has been a leader in medical professional liability insurance for nearly 40 years. As a mutual company owned and led by our PolicyOwners, we understand the challenges you face and can provide the precise protection, resources and support you need.

COVERAGE HIGHLIGHTS

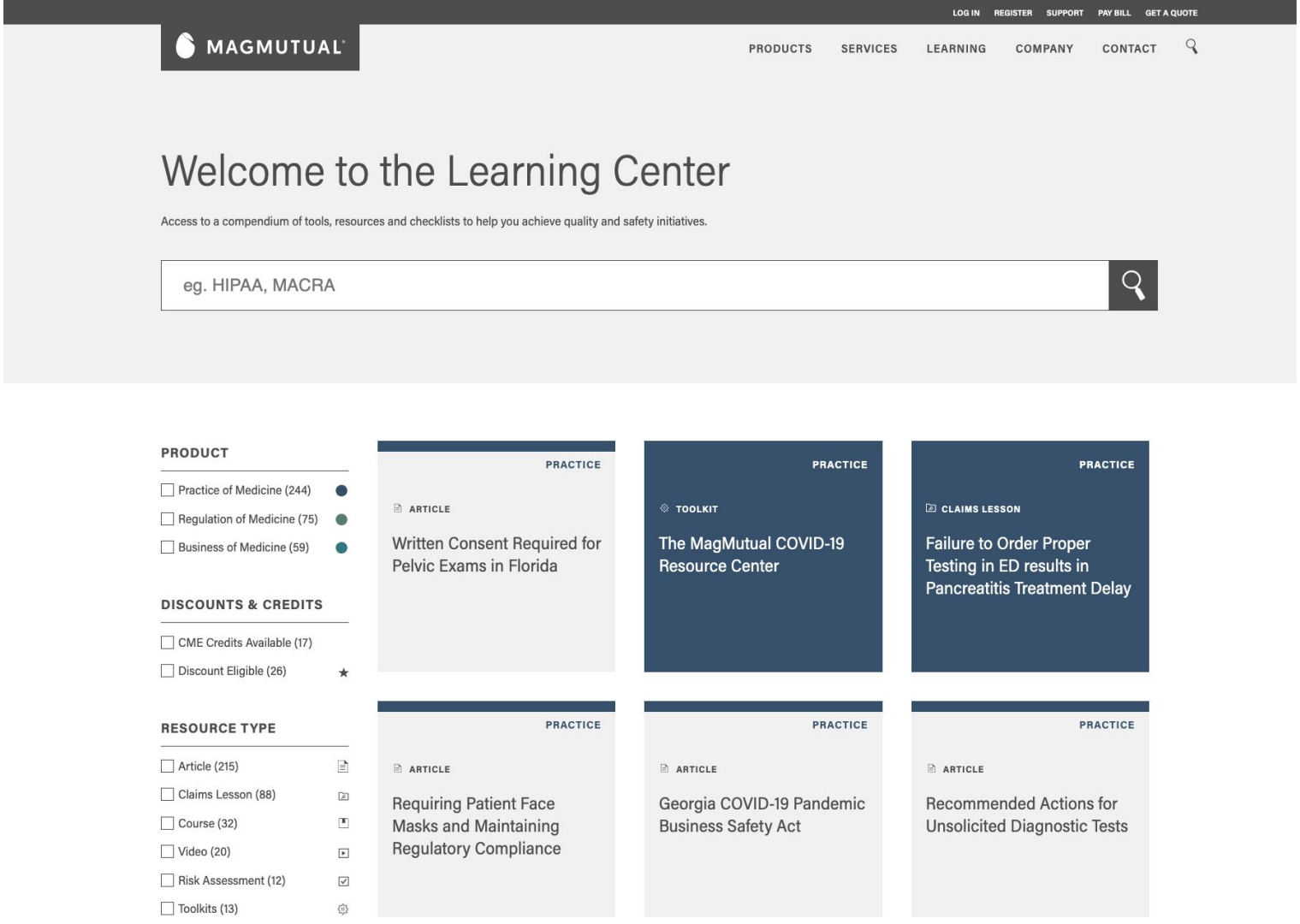
Contact an agent →

Get an online quote →

- Immediate dividend and Owners Circle® eligibility
- Inclusive policy extends to your organization, medical director duties and automatic coverage for new physicians
- Includes simple protection for cyber and regulatory claims
- Free retirement tail after one year and age 50
- Automatic blanket locum tenens
- Leave of absence benefits
- Consent to settle

RESOURCES & SUPPORT

- Complimentary UpToDate® access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Welcome to the Learning Center
Access to a compendium of tools, resources and checklists to help you achieve quality and safety initiatives.
eg. HIPAA, MACRA
PRODUCT
Practice of Medicine (244)
Regulation of Medicine (75)
Business of Medicine (59)
DISCOUNTS & CREDITS
CME Credits Available (17)
Discount Eligible (26)
RESOURCE TYPE
Article (215)
Claims Lesson (88)
Course (32)
Video (20)
Risk Assessment (12)
Toolkits (13)
PRACTICE
ARTICLE
Written Consent Required for Pelvic Exams in Florida
PRACTICE
TOOLKIT
The MagMutual COVID-19 Resource Center
PRACTICE
CLAIMS LESSON
Failure to Order Proper Testing in ED results in Pancreatitis Treatment Delay
PRACTICE
ARTICLE
Requiring Patient Face Masks and Maintaining Regulatory Compliance
PRACTICE
ARTICLE
Georgia COVID-19 Pandemic Business Safety Act
PRACTICE
ARTICLE
Recommended Actions for Unsolicited Diagnostic Tests

PRACTICE OF MEDICINE

CLAIMS LESSON

Failure to Order Proper Testing in ED results in Pancreatitis Treatment Delay

June 1, 2015

This case involves an emergency department (ED) physician who allegedly failed to order proper testing on a young man, resulting in delay and treatment of necrotic pancreatitis.

The patient initially presented to the ED with complaints of chest pain. His vital signs were: T 96.4; PO, P 104 regular; R 20 unlabored; BP 147/84, SPO2: 99; Pain: 5/10 chest. The patient's primary care physician is "NO ...

Want to learn more?

Login Create an account

Interested in how MagMutual can help?

View our products →

RELATED CONTENT

CLAIMS LESSON

Copy and Paste Documentation Creates A Problematic Defense

CLAIMS LESSON

Details Lost in the Shuffle Led to Patient Death

CLAIMS LESSON

Delayed Diagnosis of Rocky Mountain Spotted Fever in a

Create an account by filling out the following form.

First Name*

Last Name*

Email*

Please enter a valid email address. All emails from the system will be sent to this address. The email address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by email.

Password*

Passwords must contain at least 8 characters and at least three of the following: one lowercase letter (a-z), one uppercase letter (A-Z), numbers (0-9), special characters (eg. !@#$%^&*)

Confirm password*

Provide a password for the new account in both fields.

Create New Account

Toolkit Library

- Disaster Recovery Toolkit
- Orthopedic Surgery Toolkit
- MACRA/MIPS Toolkit
- Medication Safety Toolkit
- Cyber Security Toolkit
- Employment Practices Toolkit
- Onboarding Advanced Practice Clinicians
- Onboarding Medical Assistants and Office Staff Toolkit
- Onboarding Practice Managers Toolkit
- Management Liability Toolkit

Certificate Courses (CMEs)

CONTENT TITLE	STATUS	COMPLETED	CERTIFICATE
Test Course With CNE Credit	Active	—	
OPIOIDS: The Pain That Won't Go Away	Active	—	
Testing SFDC Bridge	Enrolled	—	
Another Test Course (Has CME Credit)	Enrolled	—	
Defending A Medical Malpractice Case	Active	—	
The Emergency Medical Treatment And Labor Act (EMTALA): A Guide For Physicians	Enrolled	—	
Oasis DISC May 1 Test.	Enrolled	—	
Set Your 'SMART Goals'	Complete	06-Apr-20	⬇
The Fire Course	Complete	02-Oct-19	⬇
Test Course For Dev	Complete	21-Mar-19	⬇

Non-Certificate Courses

CONTENT TITLE	STATUS	COMPLETED	CERTIFICATE
Welcome To Bridge!	Enrolled	—	
Webhook Test	Active	—	

Website: Gatsby

Why Gatsby?

- Speed + performance was a big concern on the old site
- Security
- Open Source advantage
- Developer efficiency
- The content mesh!

CMS: A Boring Drupal 8 site

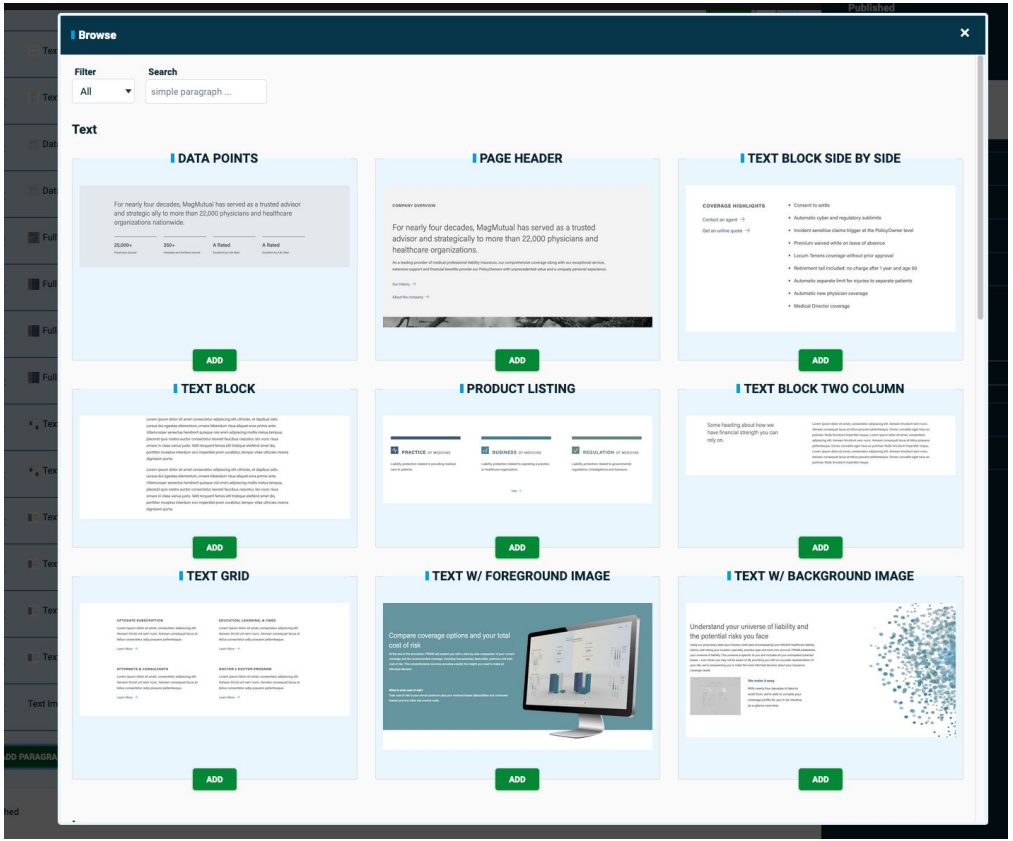
Drupal 8 is full featured

- JSON API
- JSON API Extras
- Build Hooks (Netlify)
- Search API
- Paragraphs

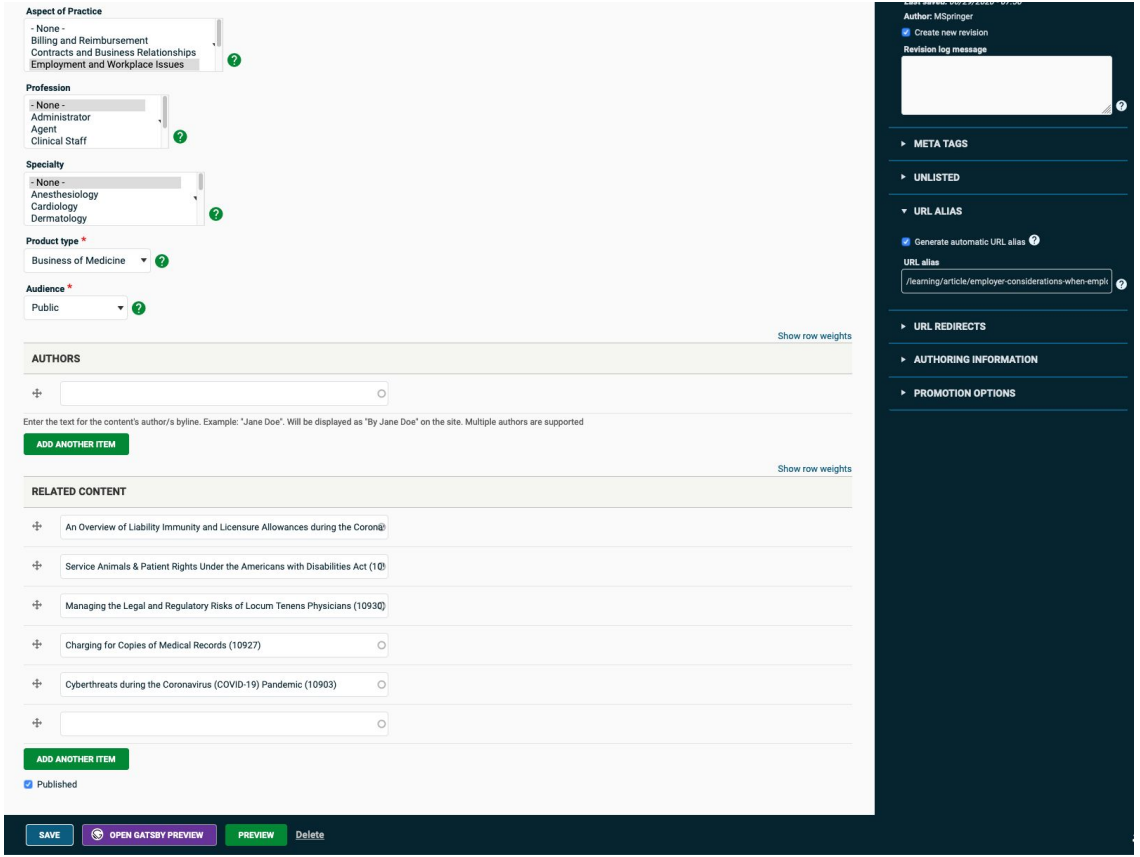
Rain Admin

Wins

- Improved editor UX
- Paragraph previews
- Clean look



Rain Admin


Aspect of Practice
- None -
Billing and Reimbursement
Contracts and Business Relationships
Employment and Workplace Issues
Profession
- None -
Administrator
Agent
Clinical Staff
Specialty
- None -
Anesthesiology
Cardiology
Dermatology
Product type *
Business of Medicine
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Show row weights
AUTHORS
Enter the text for the content's author/s byline. Example: "Jane Doe". Will be displayed as "By Jane Doe" on the site. Multiple authors are supported
ADD ANOTHER ITEM
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RELATED CONTENT
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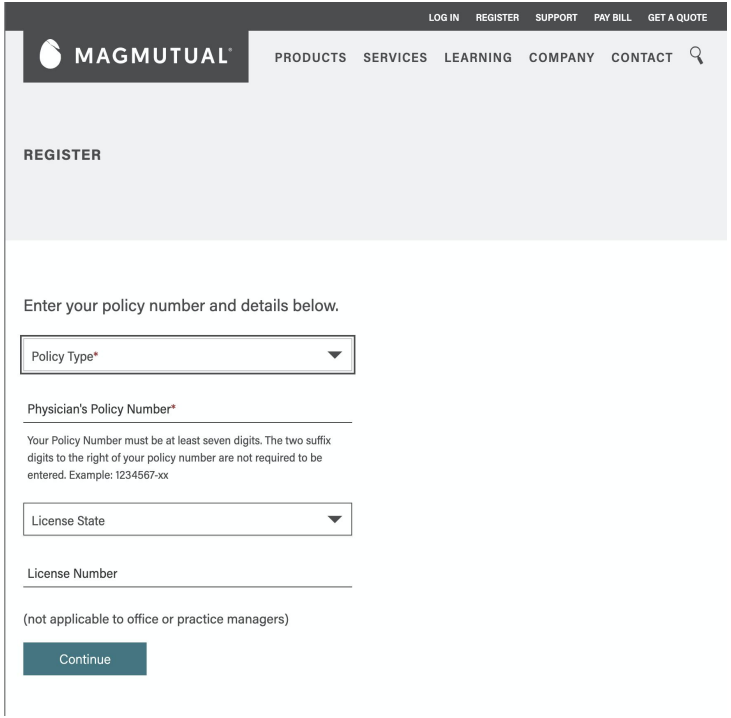
META TAGS
UNLISTED
URL ALIAS
Generate automatic URL alias
URL alias
/learning/article/employer-considerations-when-emplo
URL REDIRECTS
AUTHORING INFORMATION
PROMOTION OPTIONS

Authentication: Autho

Features

- SSO
- Universal login
- Integrations
- Protocols
- Extensibility

Server-Side Logic: AWS Lambda



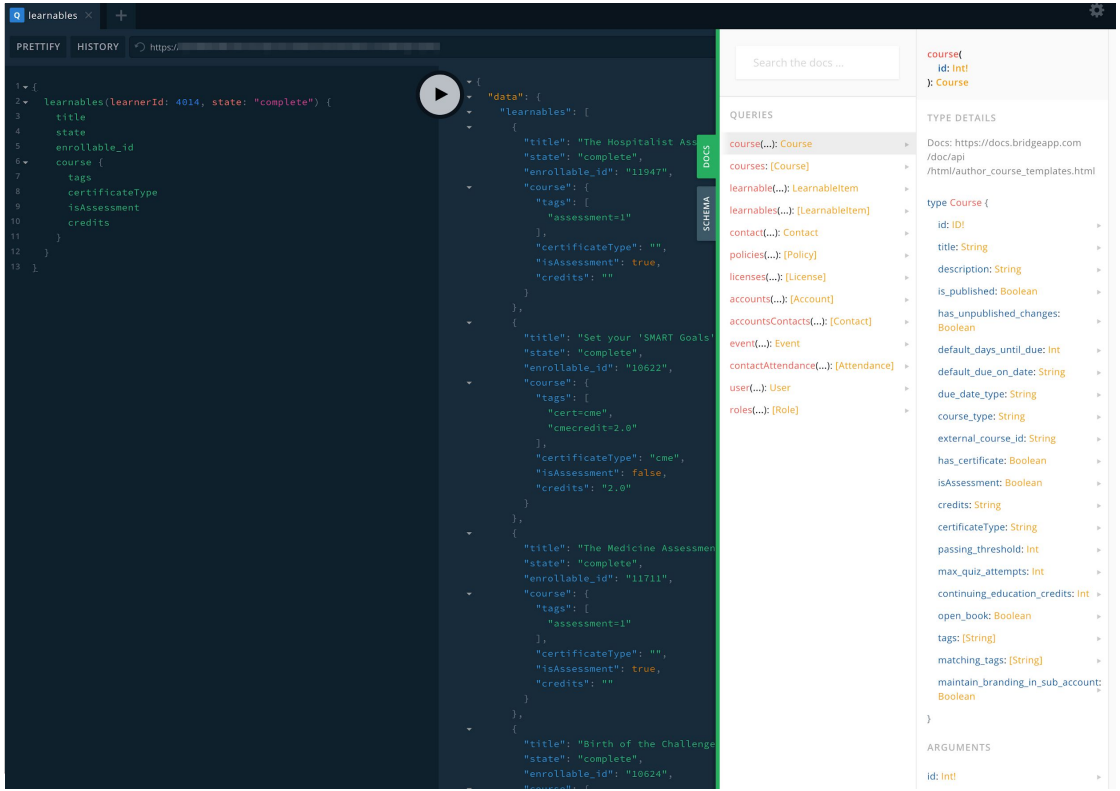
Use cases

- Form handlers
- Creating users in Autho
- API Access callbacks
- Launching third party services

Apollo GraphQL

Features

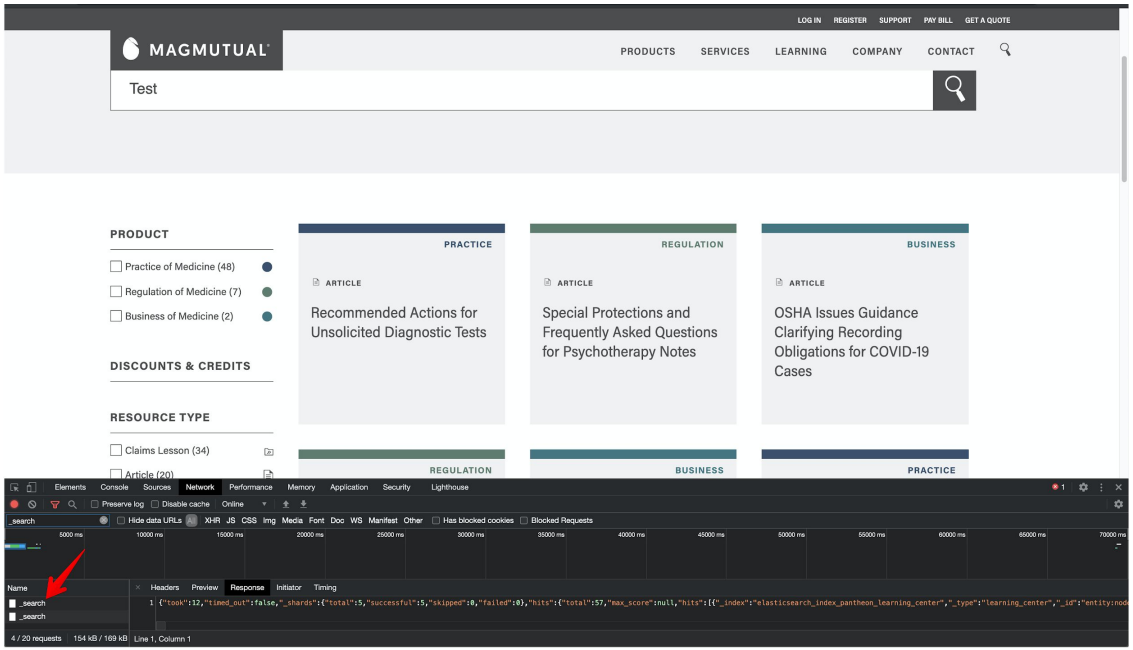
- Abstract REST API's away from the front end
- Unify your APIs
- Normalize data with schemas
- Adapt to changing needs
- Built in documentation



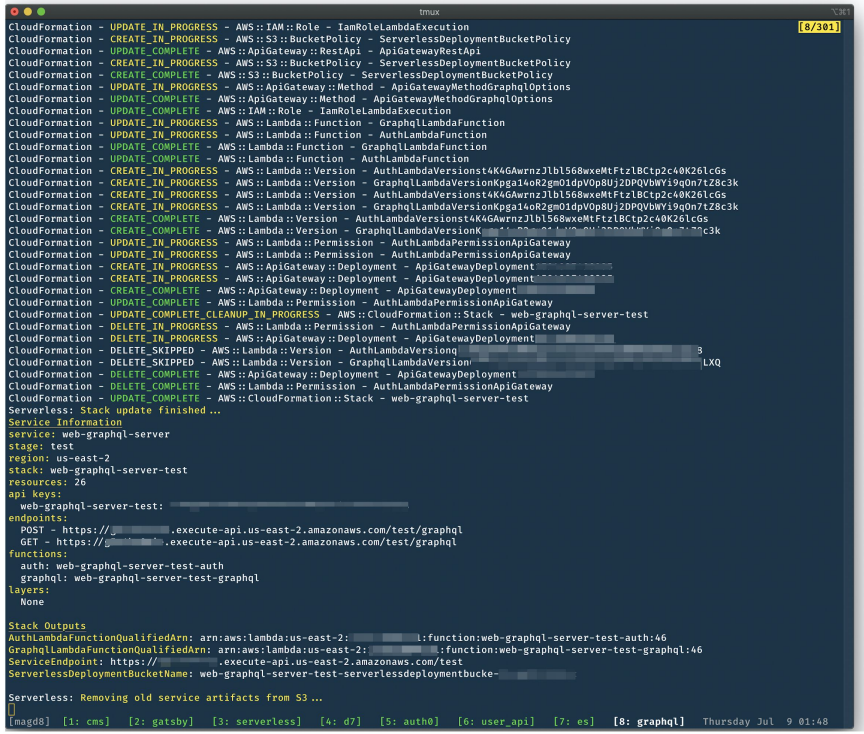
Search: Elasticsearch

Features & Integrations

- Drupal Elasticsearch AWS Connector
- AWS Elasticsearch
- AWS Lambda rate limiting
- Gatsby SearchKit plugin



Serverless Framework



Features

- Deployment
- Mocking
- Testing
- Logging
- Local development
- Project structure

Living with it – Support

Living with it - Support

The Cons

- More things to support
- More to know
- Harder to debug integration points
- Onboarding

The Pros

- Less bugs
- Focus on new features
- Drupal and Gatsby are simple to maintain
- Apollo GraphQL is a huge win
- Improved performance
- Less time to market with new features
- Added another authentication provider with little effort
- Adding new design assets is faster and easier

Questions

Does something resonate with you today? Get in touch with us.

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