JAMstackin’

Cloud ready architecture for web sites

Story time: Guess the stack

10 pages of intranet information. Campus overview, organisational charts and most important telephone numbers. Updated 2-3x per year

Liferay Portal

Foodie-Facebook! 1000s of members put recipes online, like and share. They can put recipes on their weekly food plan. Coaches can comment and help adjusting.

Wordpress

An event page, where people can select seats and tickets to a multitude of events in real-time. They can reserve seats for friends who can buy within a couple of hours.

A Java enterprise application

An event page, where people can select seats and tickets to a multitude of events in real-time. They can reserve seats for friends who can buy within a couple of hours.

A Java Enterprise application, publishing 20 JSON files and 7 PHP scripts every other hour.

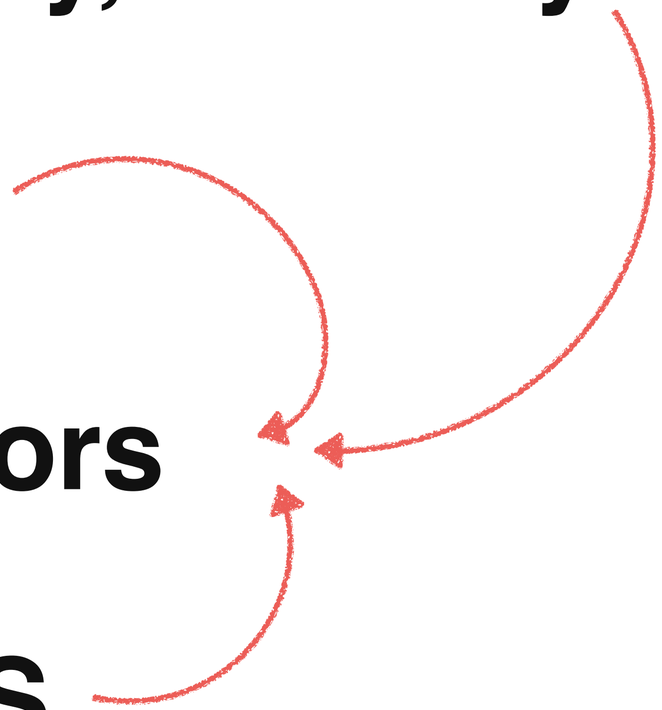
The tools of our trade

Hosting: Availability, stability, security

Application: Process, state

CMS: Data, structures, editors

Front-End: Markup, CSS, JS



Technology Lock-In

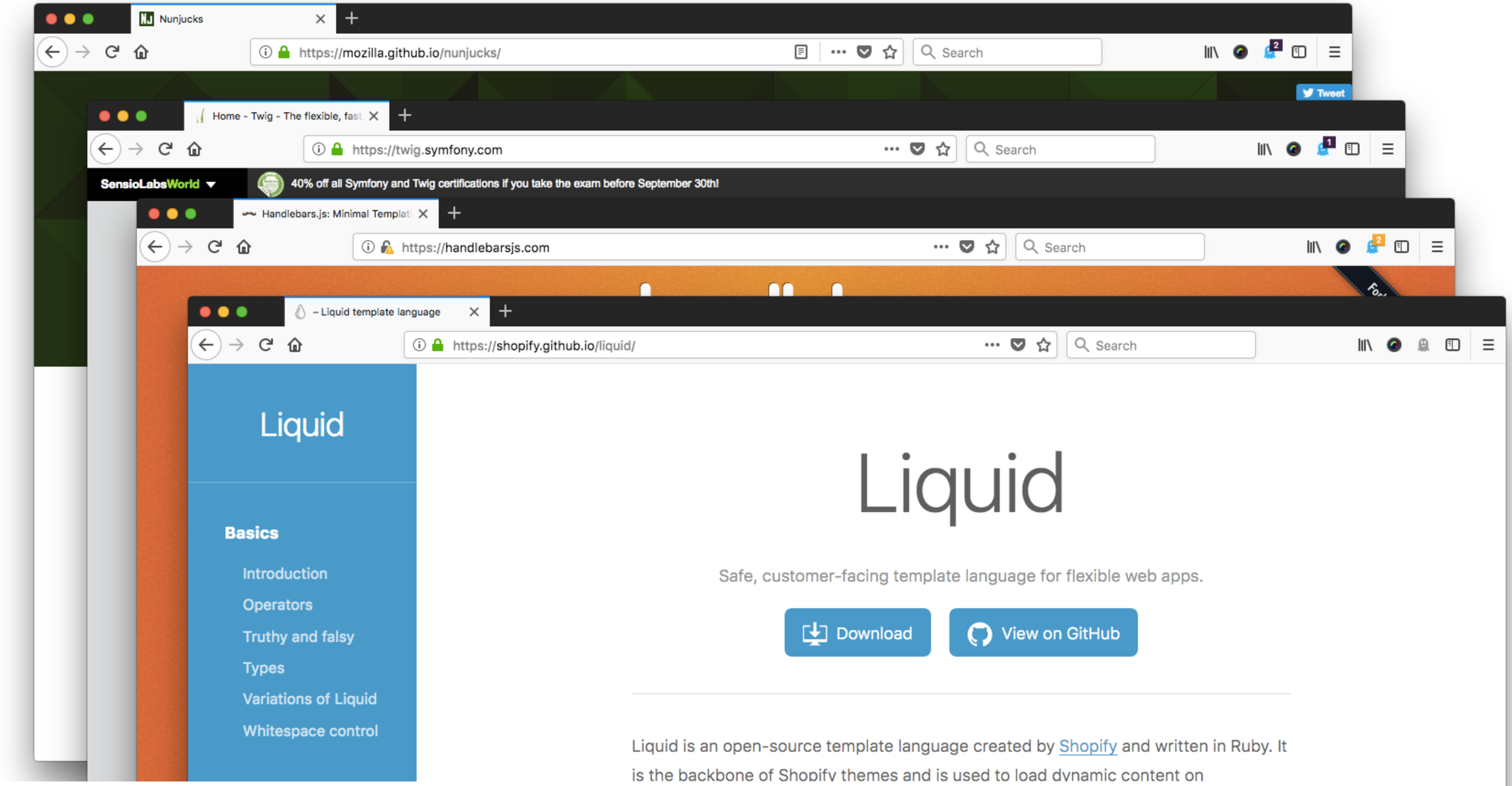
Hosting: Availability, stability, security

Application: Process, state

CMS: Data, structures, editors

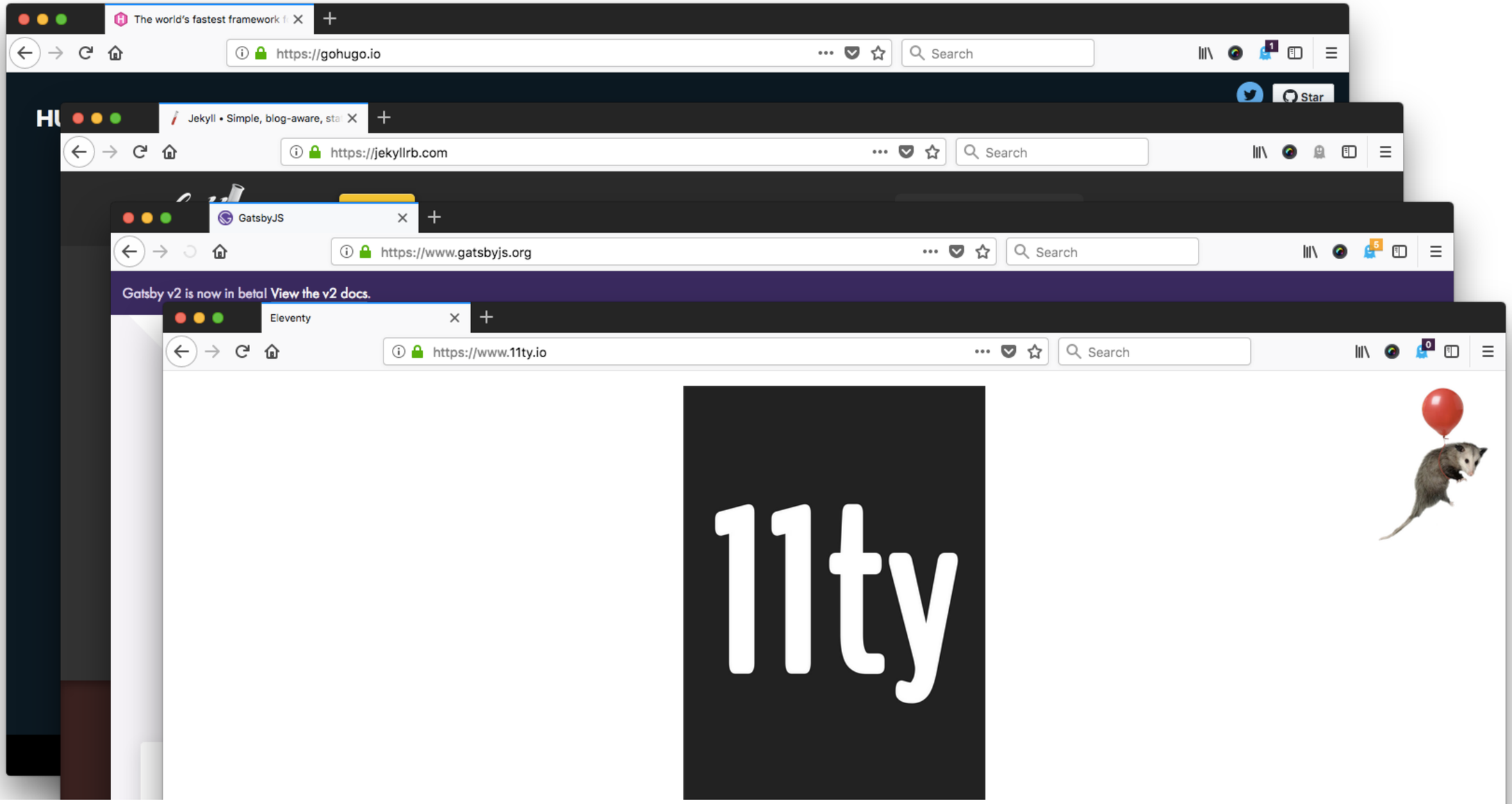
Front-End: Markup, CSS, JS

Front-End



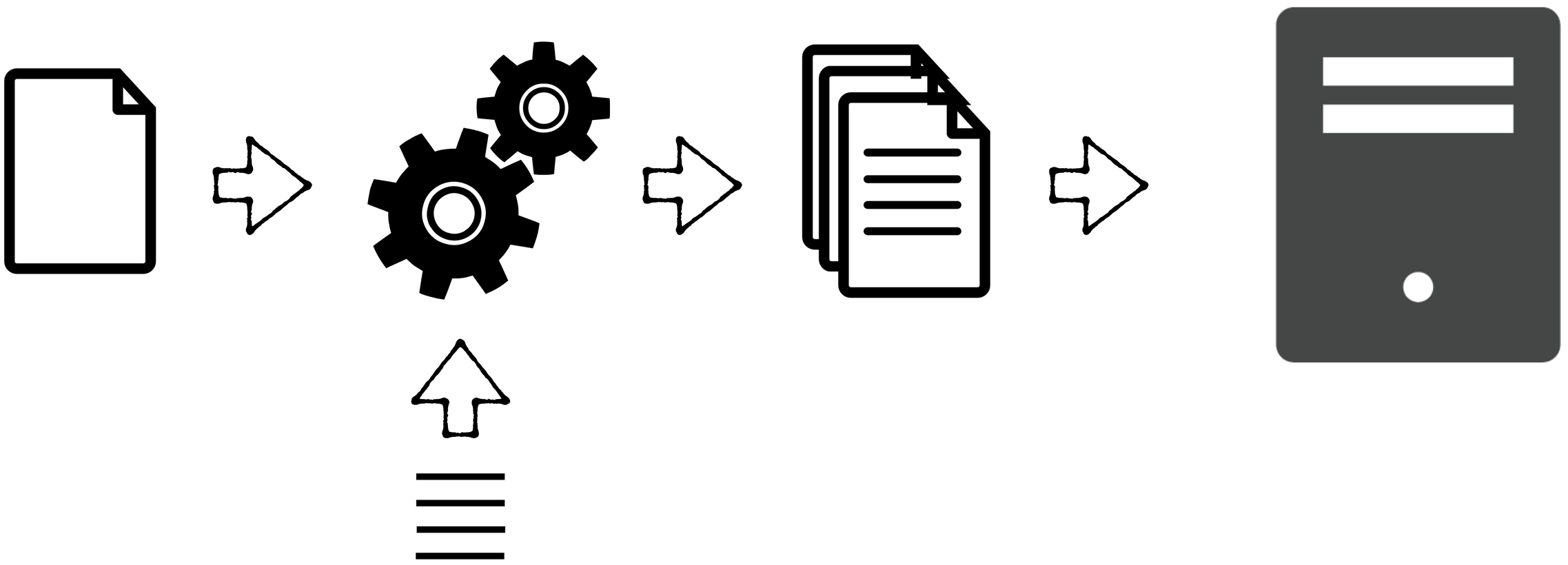
Templating languages

Used by



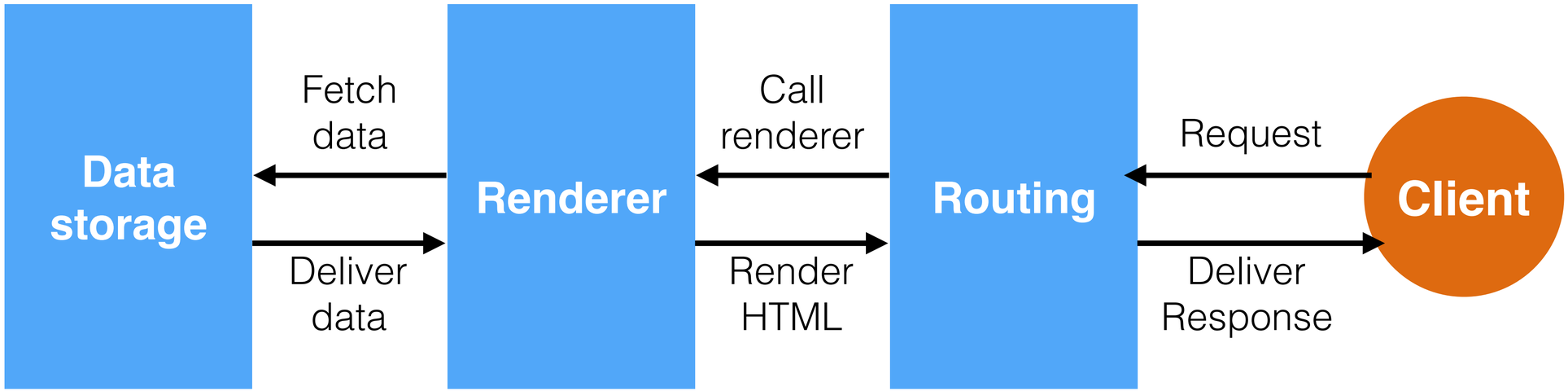
Static site generators

Docs v0.5.3 | **GitHub** | **NPM** | **Twitter** | @zachleat

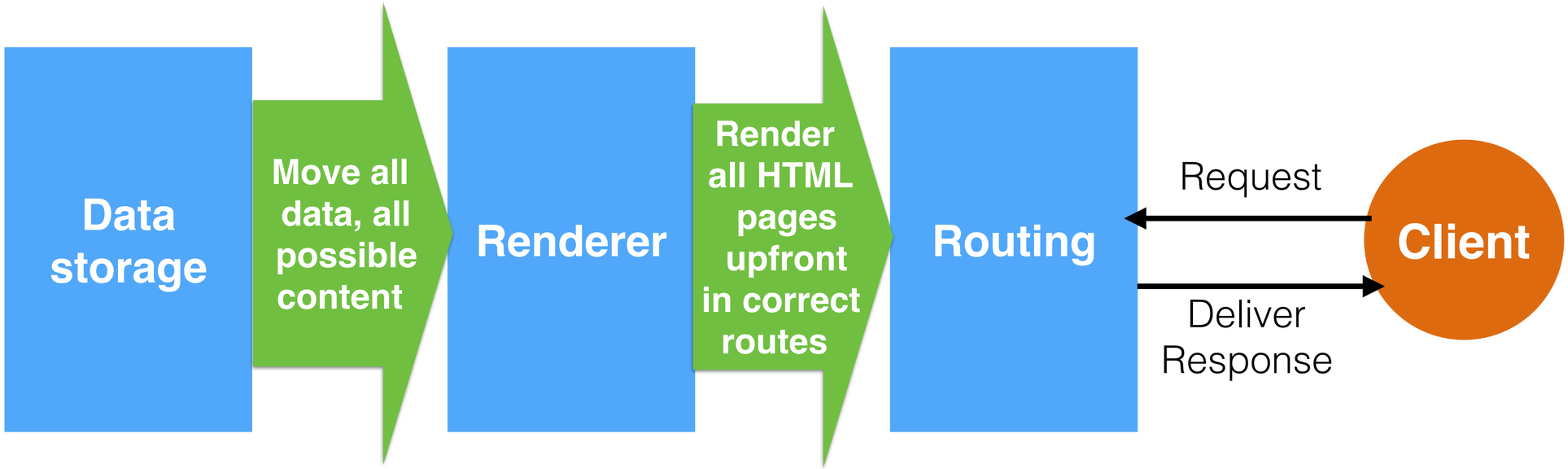


```
<!doctype html>
{% if page.lang %}
<html lang="{{ page.lang }}">
{% else %}
<html lang="en">
{% endif %}
<head>
  {% include partial/head.html
</head>
<body {% if layout.mainClass %}

  {% include partial/header.htm

  {{ content }}

  {% include partial/footer.htm

</body>
</html>
```

```
---
title: "Wordpress as CMS for your JAMStack sites"
published: true
permalink: /wordpress-and-jamstack-sites/
layout: post
categories:
- Node.js
- Static site generators
- JAMstack
---

The almighty JAMStack brings you fast and secure static websites, and
) they become even easy to edit! However, every once in a while you w
[Calypso](https://developer.wordpress.com/calypso/).

One of the best advantages of using a static site generator is that t

In this example, I use [Metalsmith](http://www.metalsmith.io/) as sta
) for instance. And as long as your static site generator knows how t

## The Wordpress API

Every Wordpress installation comes with a full fledged JSON API. This
```

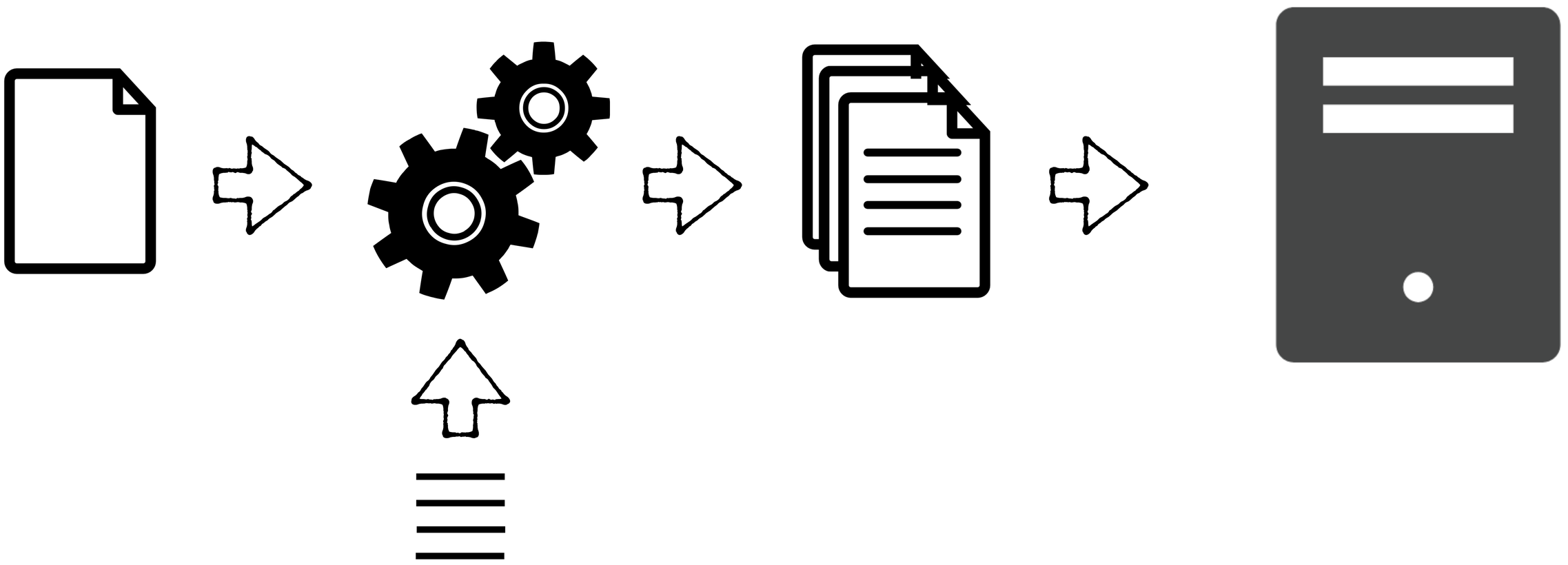


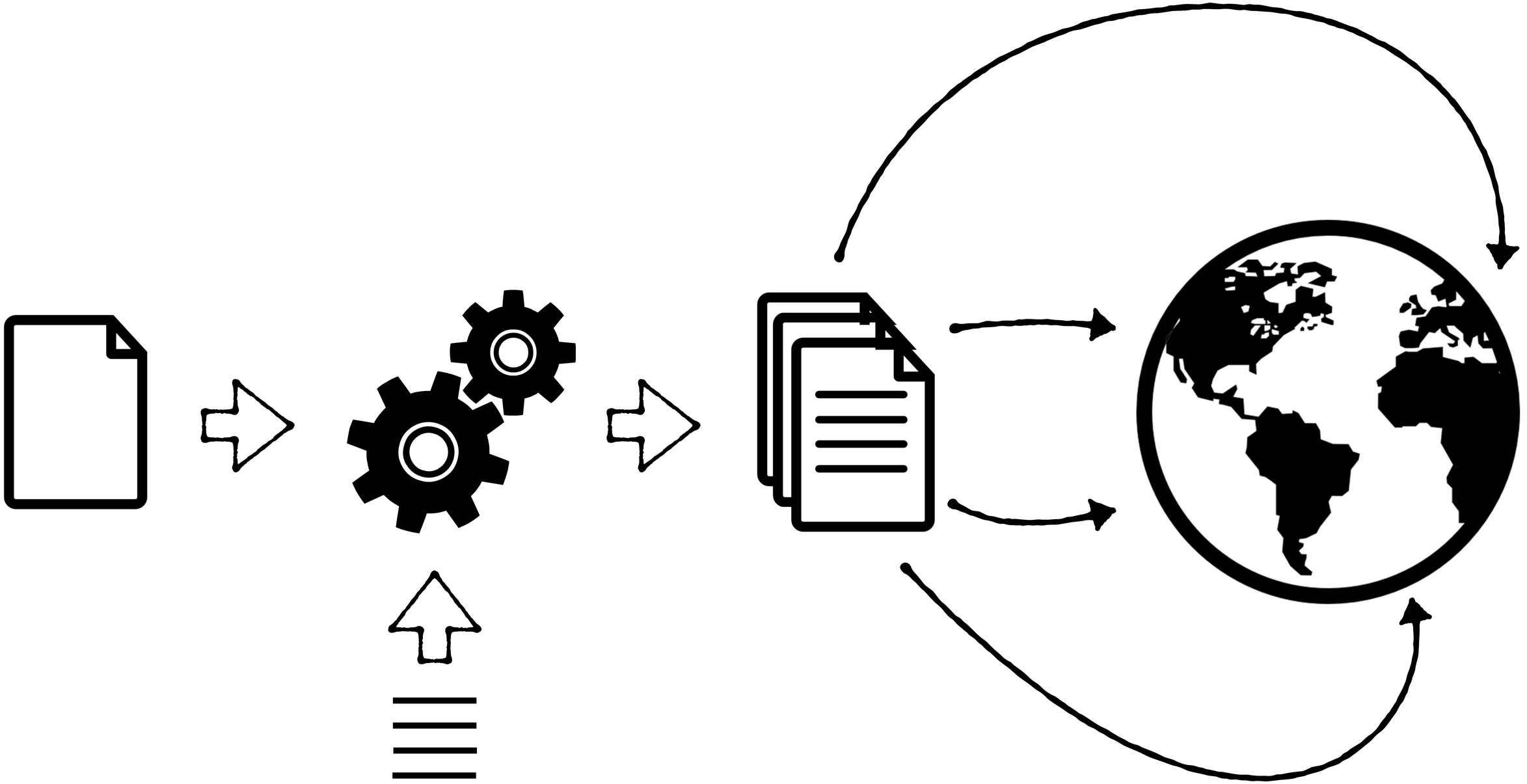
Traditional “Pull” Architecture

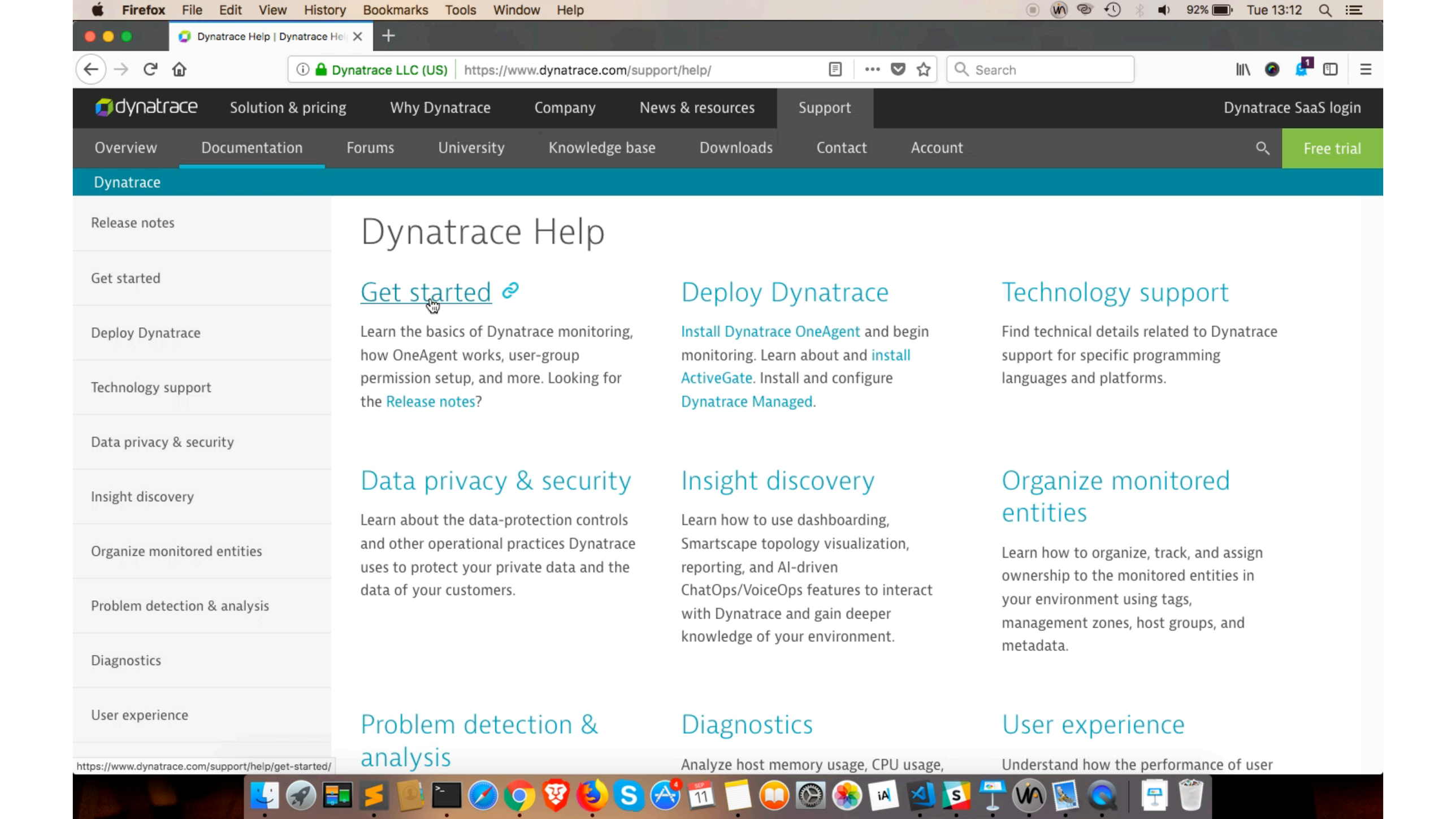


“Push” Architecture of static sites

Hosting






Firefox File Edit View History Bookmarks Tools Window Help
92% Tue 13:12
Dynatrace Help | Dynatrace Help
Dynatrace LLC (US) https://www.dynatrace.com/support/help/
Search
dynatrace
Solution & pricing
Why Dynatrace
Company
News & resources
Support
Dynatrace SaaS login
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Documentation
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Dynatrace
Release notes
Get started
Deploy Dynatrace
Technology support
Data privacy & security
Insight discovery
Organize monitored entities
Problem detection & analysis
Diagnostics
User experience
Dynatrace Help
Get started
Learn the basics of Dynatrace monitoring, how OneAgent works, user-group permission setup, and more. Looking for the Release notes?
Deploy Dynatrace
Install Dynatrace OneAgent and begin monitoring. Learn about and install ActiveGate. Install and configure Dynatrace Managed.
Technology support
Find technical details related to Dynatrace support for specific programming languages and platforms.
Data privacy & security
Learn about the data-protection controls and other operational practices Dynatrace uses to protect your private data and the data of your customers.
Insight discovery
Learn how to use dashboarding, Smartscape topology visualization, reporting, and AI-driven ChatOps/VoiceOps features to interact with Dynatrace and gain deeper knowledge of your environment.
Organize monitored entities
Learn how to organize, track, and assign ownership to the monitored entities in your environment using tags, management zones, host groups, and metadata.
Problem detection & analysis
Diagnostics
Analyze host memory usage, CPU usage,
User experience
Understand how the performance of user
https://www.dynatrace.com/support/help/get-started/

Sources: Markdown, JSON, APIs

It’s just HTML

Deploy it: Storage, Dropbox

Scaleable, blazingly fast, secure

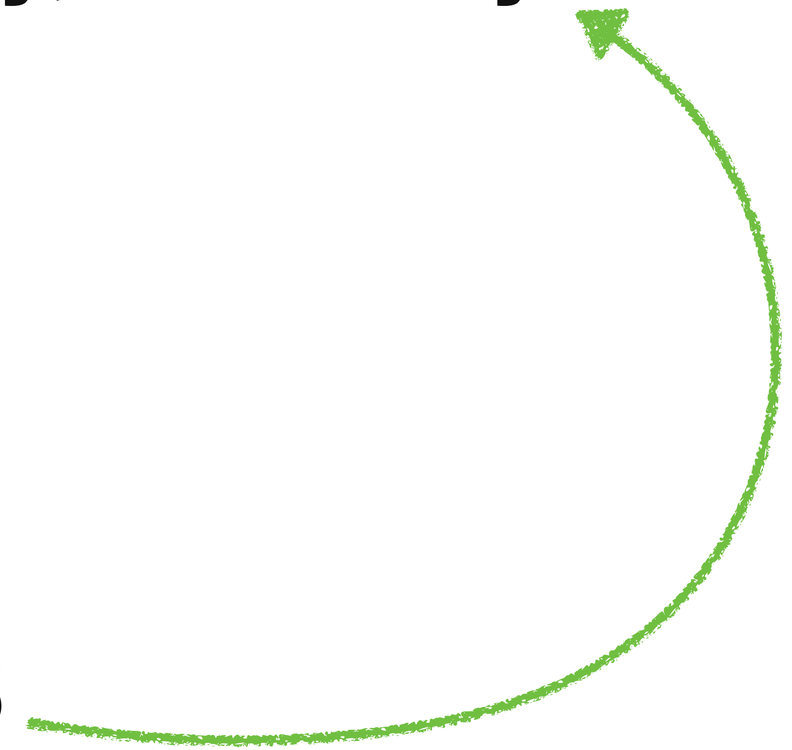
Needs a build process

Which increases as site grows bigger

Not so good with binary data

Some SSGs are more flexible than others

Hosting: Availability, stability, security



Front-End: Markup, CSS, JS

Content

Create your first function from t

https://docs.microsoft.com/en-us/azure/azure-functions/functions-create-firs

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- Resources

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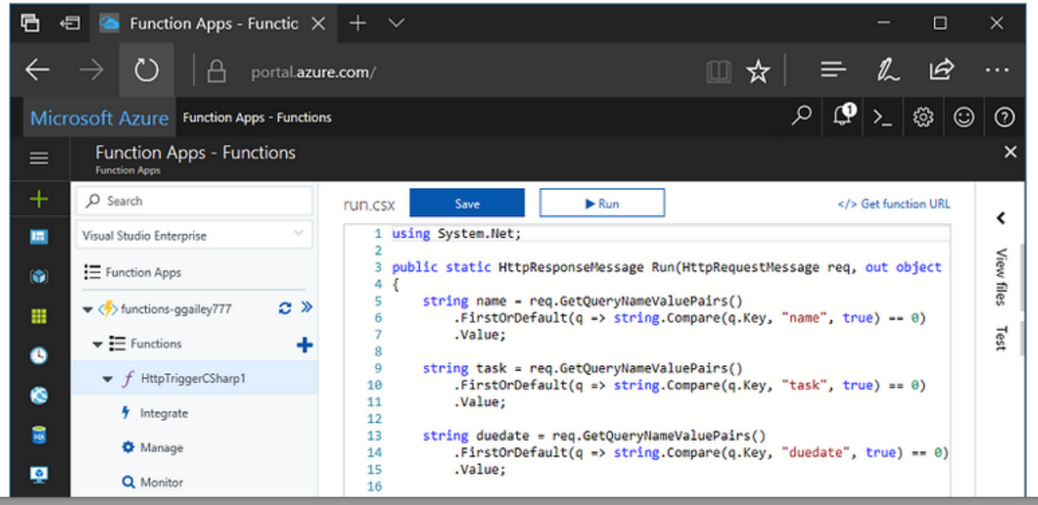
Create your first function in the Azure portal

03/28/2018 • 4 minutes to read • Contributors all

Azure Functions lets you execute your code in a serverless environment without having to first create a VM or publish a web application. In this topic, learn how to use Functions to create a "hello world" function in the Azure portal.

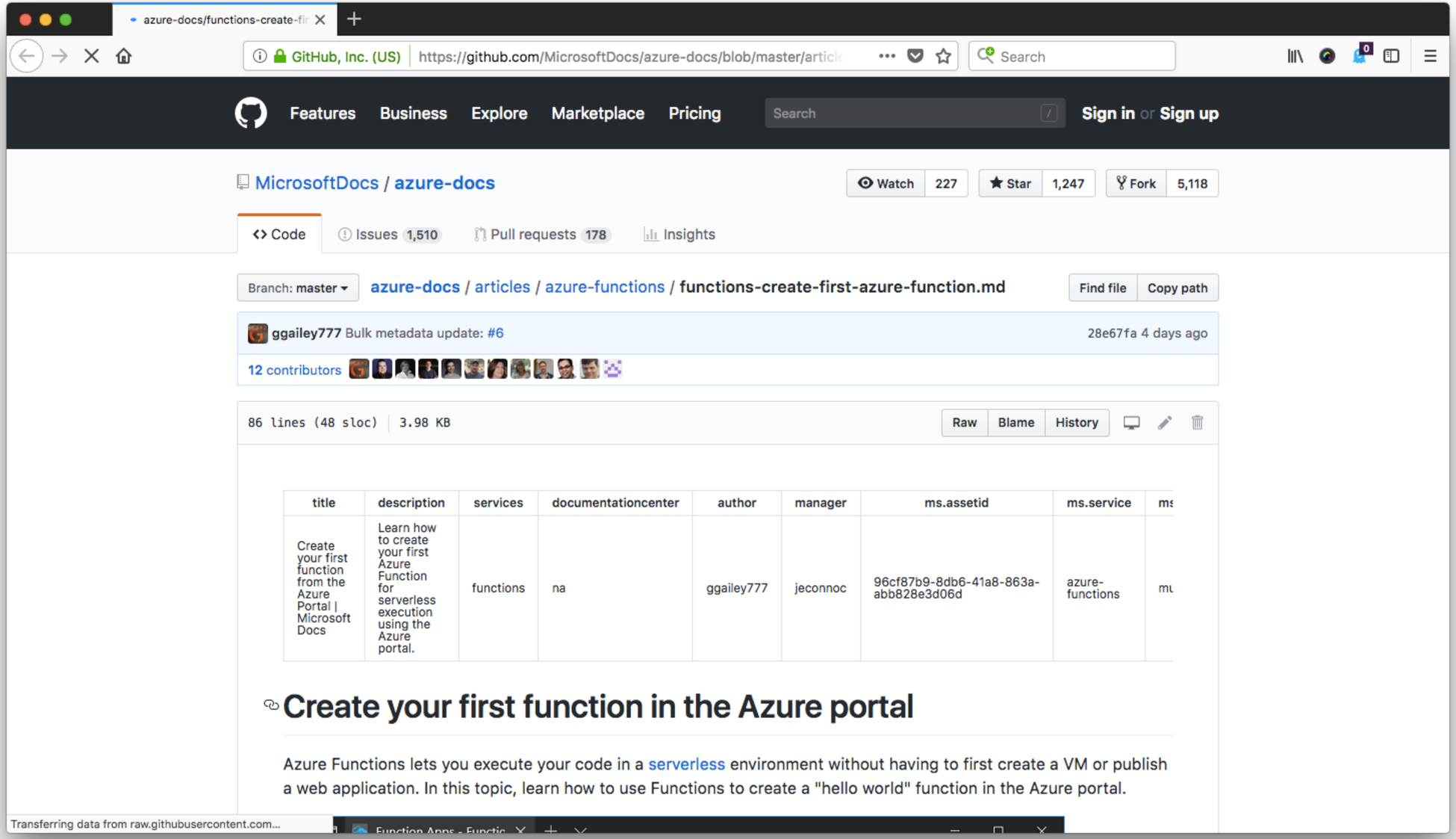


In this article

- Log in to Azure
- Create a function app
- Create an HTTP triggered function
- Test the function
- Clean up resources
- Next steps

Is this page helpful?

Yes No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Marketplace
Pricing
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Watch 227
Star 1,247
Fork 5,118
Code
Issues 1,510
Pull requests 178
Insights
Branch: master
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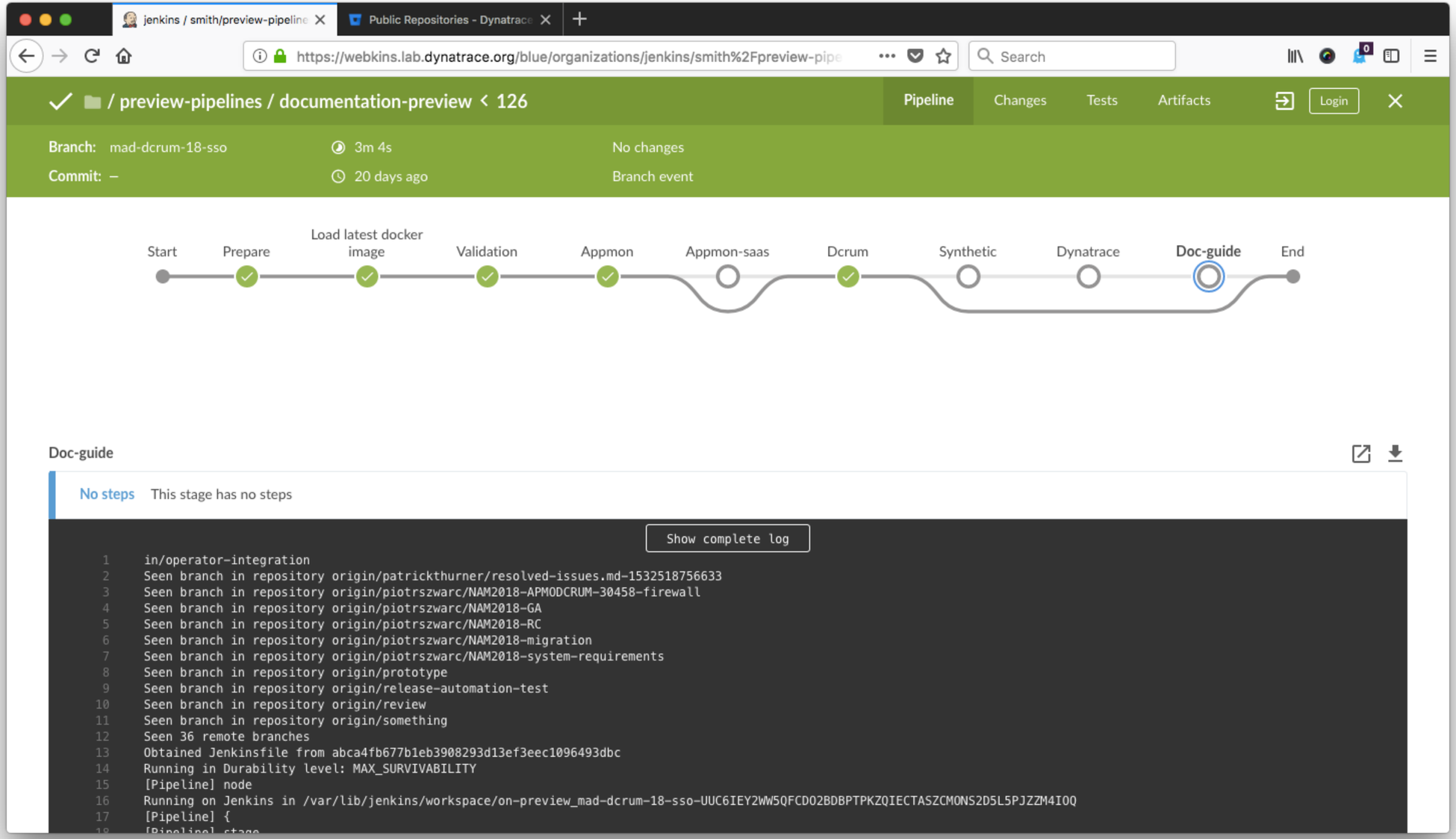
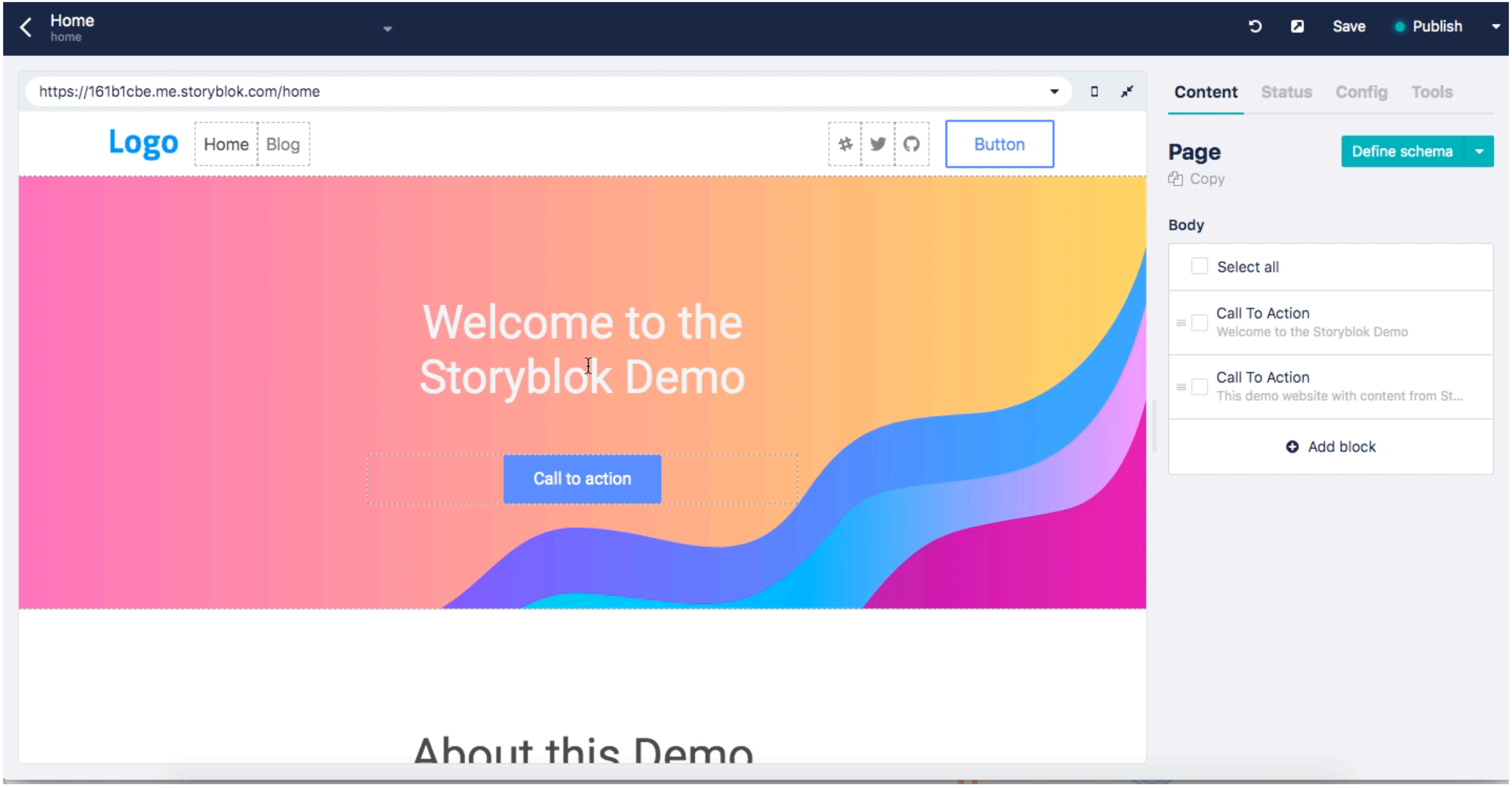
Find file
Copy path
ggailey777 Bulk metadata update: #6
28e67fa 4 days ago
12 contributors
86 lines (48 sloc) 3.98 KB
Raw
Blame
History
title
description
services
documentationcenter
author
manager
ms.assetid
ms.service
Create your first function from the Azure Portal | Microsoft Docs
Learn how to create your first Azure Function for serverless execution using the Azure portal.
functions
na
ggailey777
jeconnoc
96cf87b9-8db6-41a8-863a-abb828e3d06d
azure-functions
Create your first function in the Azure portal
Azure Functions lets you execute your code in a serverless environment without having to first create a VM or publish a web application. In this topic, learn how to use Functions to create a "hello world" function in the Azure portal.
Transferring data from raw.githubusercontent.com...


jenkins / smith/preview-pipeline
Public Repositories - Dynatrace
https://webkins.lab.dynatrace.org/blue/organizations/jenkins/smith%2Fpreview-pipe
Search
/ preview-pipelines / documentation-preview < 126
Pipeline
Changes
Tests
Artifacts
Login
Branch: mad-dcrum-18-sso
3m 4s
No changes
Commit: –
20 days ago
Branch event
Start
Prepare
Load latest docker image
Validation
Appmon
Appmon-saas
Dcrum
Synthetic
Dynatrace
Doc-guide
End
Doc-guide
No steps
This stage has no steps
Show complete log
in/operator-integration
Seen branch in repository origin/patrickthurner/resolved-issues.md-1532518756633
Seen branch in repository origin/piotrszwarc/NAM2018-APMODCRUM-30458-firewall
Seen branch in repository origin/piotrszwarc/NAM2018-GA
Seen branch in repository origin/piotrszwarc/NAM2018-RC
Seen branch in repository origin/piotrszwarc/NAM2018-migration
Seen branch in repository origin/piotrszwarc/NAM2018-system-requirements
Seen branch in repository origin/prototype
Seen branch in repository origin/release-automation-test
Seen branch in repository origin/review
Seen branch in repository origin/something
Seen 36 remote branches
Obtained Jenkinsfile from abca4fb677b1eb3908293d13ef3eec1096493dbc
Running in Durability level: MAX_SURVIVABILITY
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/on-preview_mad-dcrum-18-sso-UUC6IEY2WW5QFCDO2BDBPTPKZQIECTASZCMONS2D5L5PJZZM4IOQ
[Pipeline] {

jenkins / smith/preview-pipeline
Pull requests for repository doc
Pull Request #640: UA-2617
Search
Bitbucket
Projects
Repositories
Snippets
Search for code, commits or repositories...
Web Experience
doc
PUBLIC
ACTIONS
Clone
Create branch
Create pull request
Create fork
NAVIGATION
Source
Commits
Branches
Pull requests 1
Forks
SHORTCUTS
Add shortcut
Repository settings
David Bignotti
DaveBig-UA-2617- → review
MERGED
UA-2617
Overview
Diff
Commits
Details
David Bignotti created a pull request 25 Aug 2018
Added to Smartscape topic, edited in Glossary topic(also includes move of ActiveGate from 'S' (where it was because it was Security Gsateway) to under 'A'.
1 build
UA-2617
Learn more
Activity
What do you want to say?
buildmaster
Pull request preview is available
Build no 3/ Commit d5da16671713c7f0907963f06b42025821f16a6b
Appmon preview
Appmon-saas preview
Dcrum preview
Synthetic preview
Help preview
To get detailed status information about the preview state, please check the build link in the top right corner.
Have fun 👀 at it.
Reply · Delete · Create task · Create Jira issue · Like · 28 Aug 2018
David Bignotti UPDATED the pull request by adding 1 commit 28 Aug 2018

That's nothing for non tech-savvy users!

Going headless


Home
home
Save
Publish
https://161b1cbe.me.storyblok.com/home
Logo
Home
Blog
Button
Welcome to the Storyblok Demo
Call to action
About this Demo
Content
Status
Config
Tools
Page
Define schema
Copy
Body
Select all
Call To Action
Welcome to the Storyblok Demo
Call To Action
This demo website with content from St...
Add block

CMS, not Content Design System

100% output independet

For regular size projects free/cheap plans

CMS status independent of site status

Git as a CMS -> Sounds good, doesn’t work

Almost no good open source alternatives

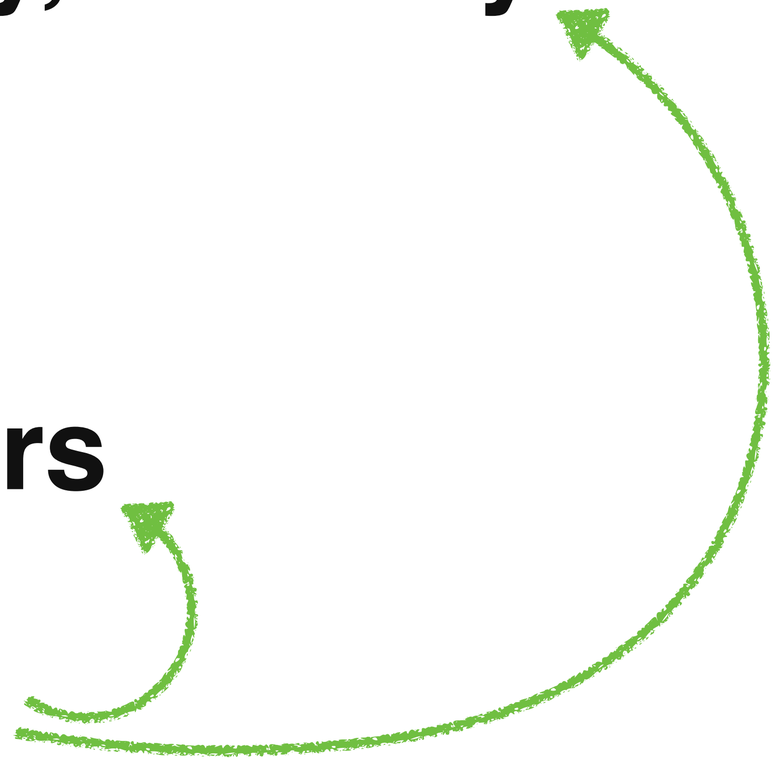
Big users pay big money

What’s your content exit strategy

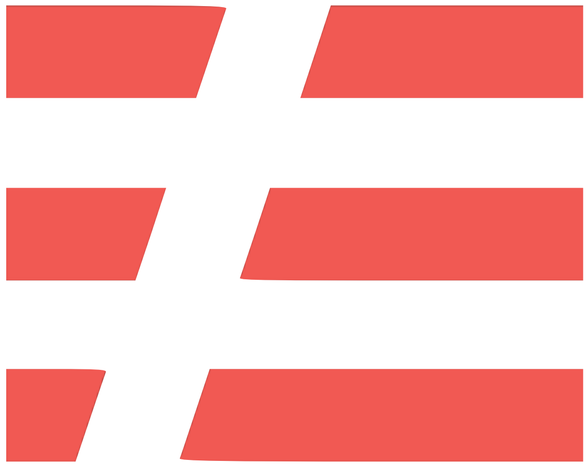
Hosting: Availability, stability, security

CMS: Data, structures, editors

Front-End: Markup, CSS, JS



Applications

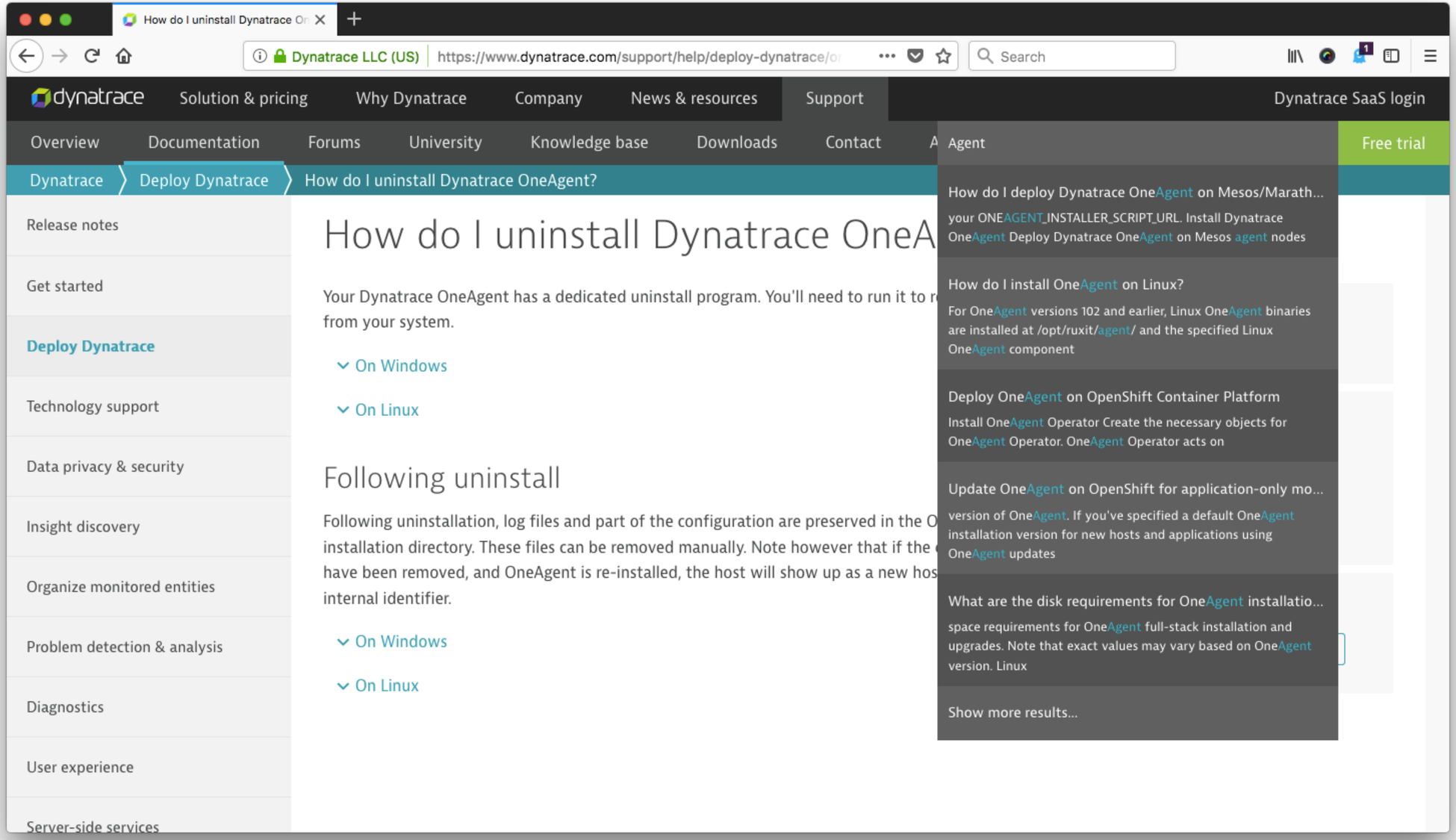


Serverless

Serverless is not about having *no servers, it's about not* caring *about servers*

"Functions as a Service"

It's like developing for the browser, but on the server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Company
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Overview
Documentation
Forums
University
Knowledge base
Downloads
Contact
Free trial
Dynatrace
Deploy Dynatrace
How do I uninstall Dynatrace OneAgent?
Release notes
Get started
Deploy Dynatrace
Technology support
Data privacy & security
Insight discovery
Organize monitored entities
Problem detection & analysis
Diagnostics
User experience
Server-side services
How do I uninstall Dynatrace OneA
Your Dynatrace OneAgent has a dedicated uninstall program. You'll need to run it to r
from your system.
On Windows
On Linux
Following uninstall
Following uninstallation, log files and part of the configuration are preserved in the O
installation directory. These files can be removed manually. Note however that if the
have been removed, and OneAgent is re-installed, the host will show up as a new hos
internal identifier.
On Windows
On Linux
Agent
How do I deploy Dynatrace OneAgent on Mesos/Marath...
your ONEAGENT_INSTALLER_SCRIPT_URL. Install Dynatrace OneAgent Deploy Dynatrace OneAgent on Mesos agent nodes
How do I install OneAgent on Linux?
For OneAgent versions 102 and earlier, Linux OneAgent binaries are installed at /opt/ruxit/agent/ and the specified Linux OneAgent component
Deploy OneAgent on OpenShift Container Platform
Install OneAgent Operator Create the necessary objects for OneAgent Operator. OneAgent Operator acts on
Update OneAgent on OpenShift for application-only mo...
version of OneAgent. If you've specified a default OneAgent installation version for new hosts and applications using OneAgent updates
What are the disk requirements for OneAgent installatio...
space requirements for OneAgent full-stack installation and upgrades. Note that exact values may vary based on OneAgent version. Linux
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Hello, Stefan!

It's refreshing to be in a situation where the spotlight is on someone else.
You look truly *smashing* today, by the way.

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Coming Up Next in Membership

THU, AUG 16

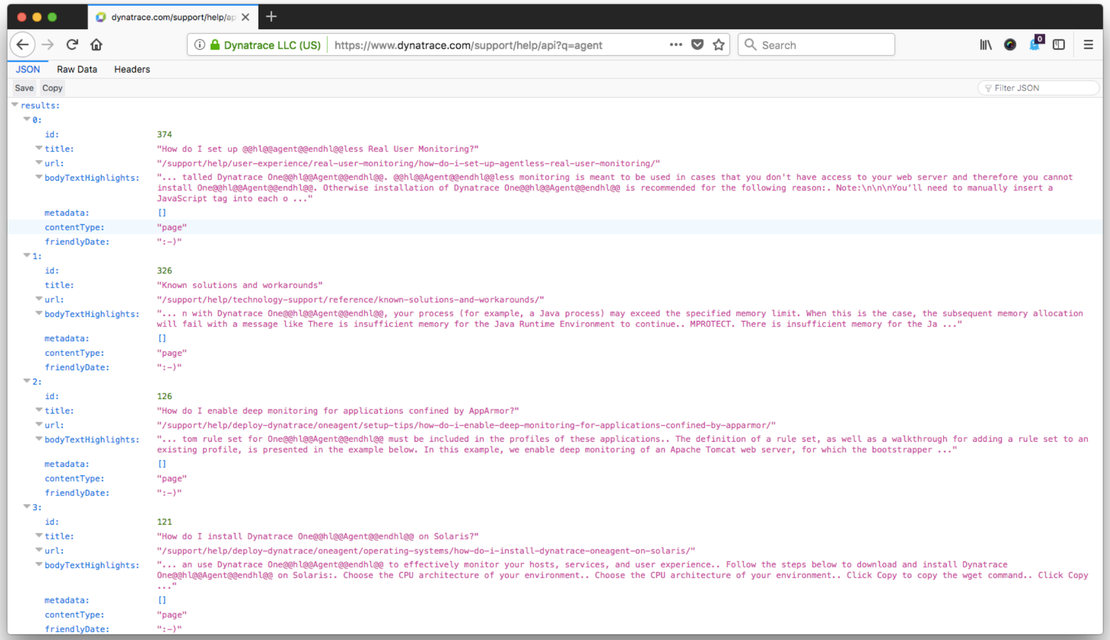
Smashing Book 6: Exclusive final version

TUE, SEP 18

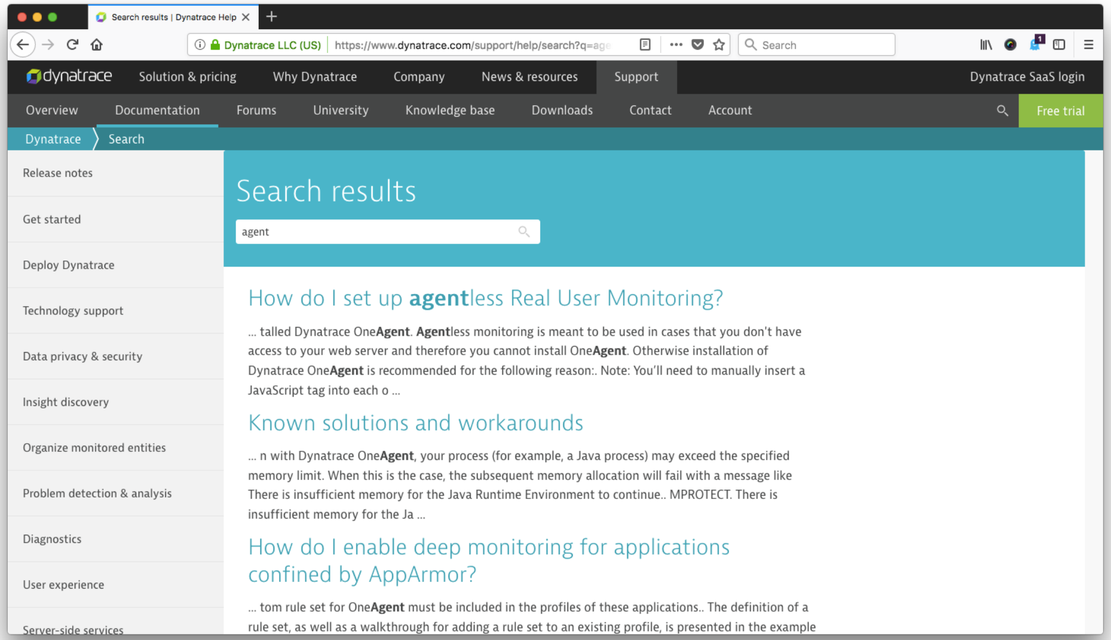
Smashing TV: Variable Fonts and Our New Typography

Read cloud.netlifyusercontent.com

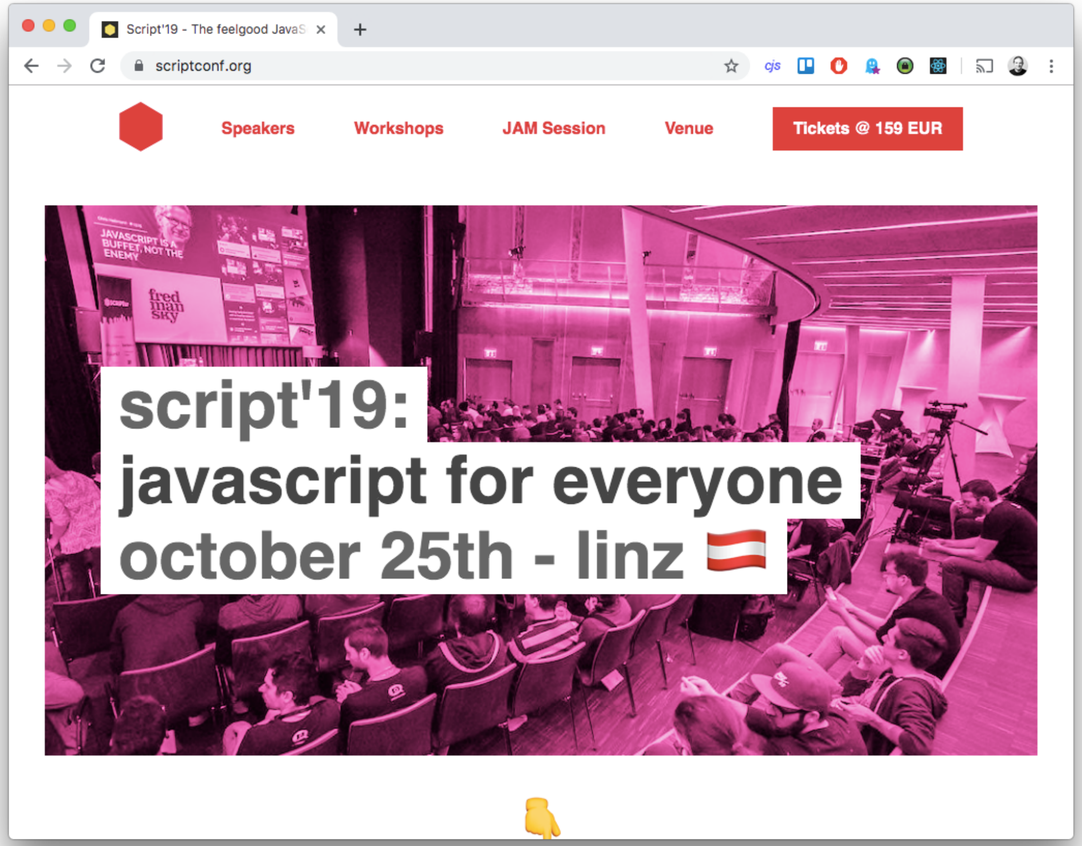
```
const qs = require('querystring')

module.exports = async function(context, req) {
  const params = qs.parse(req.body)
  context.log(req, params)
  const message = {
    "personalizations": [ { "to": [ { "email": "sbaumg@gmail.com" } ] } ],
    from: { email: params.mail },
    subject: "Feedback from Website",
    content: [{
      type: 'text/plain',
      value: `${params.name} says: ${params.text}`
    }]
  }
  return {
    httpResponse: {
      body: { msg: “Message sent!” },
      status: 302
    },
    sendgrid: message
  }
}
```



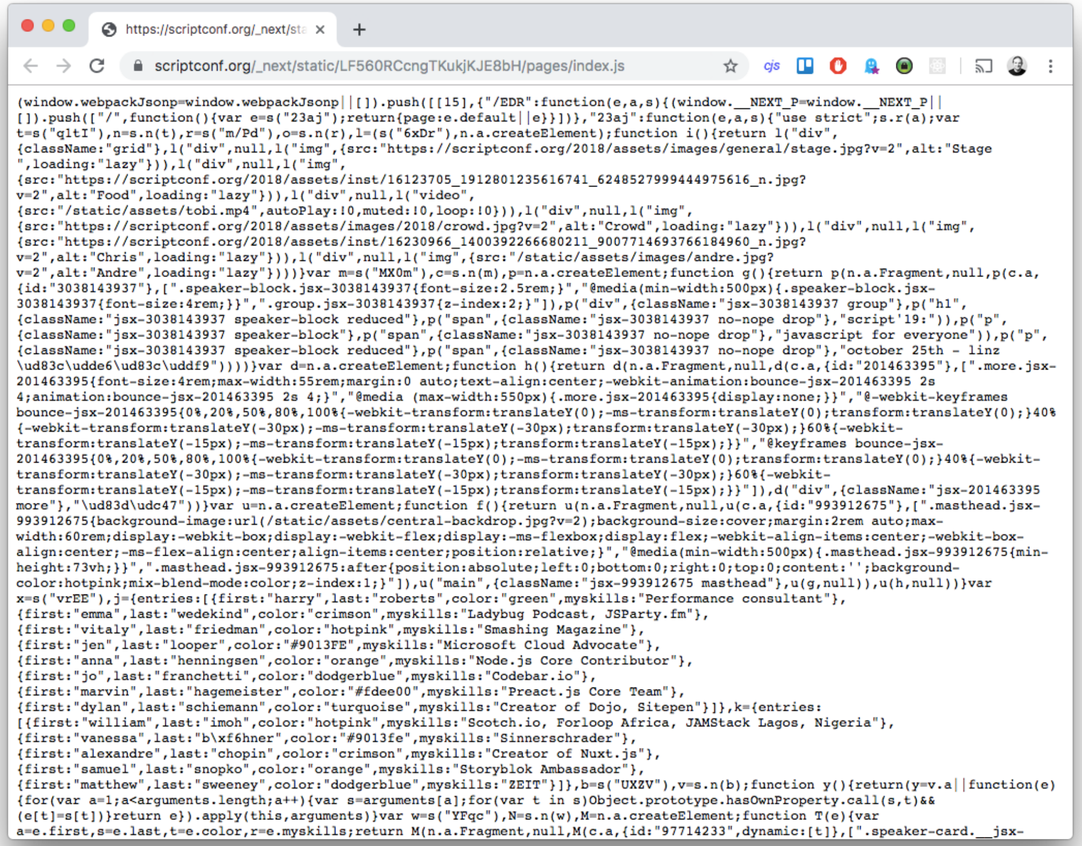
Accept: application/json



Accept: text/html



Accept: text/html



Accept: */*

Pay what you need

Manageable attack surface

Defined Input and Output

Integration with 3rd party services is easy

Serverless architectures are hard

What about platform independence

What if we like state

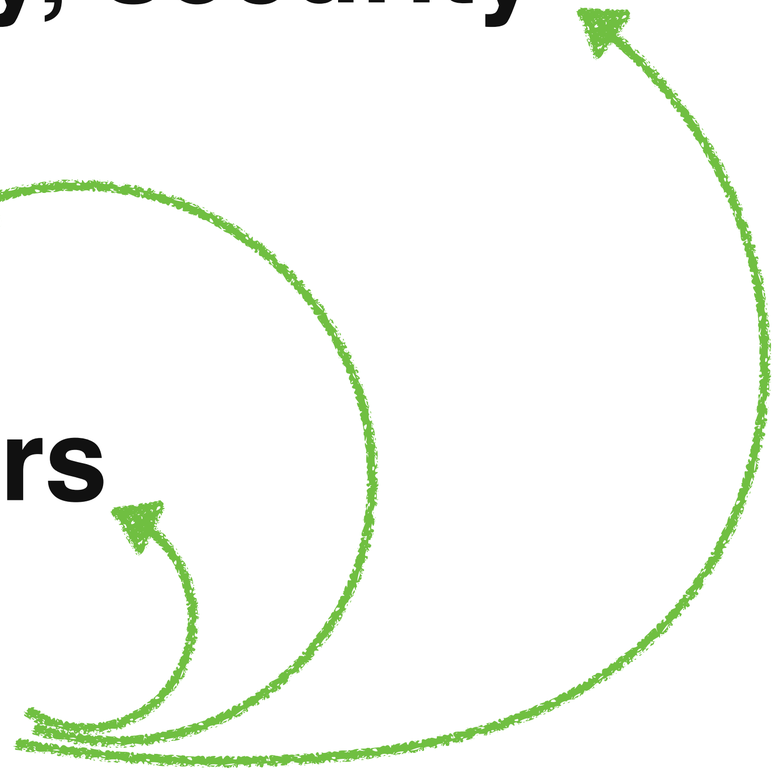
More interfaces, more contracts

Hosting: Availability, stability, security

Application: Process state

CMS: Data, structures, editors

Front-End: Markup, CSS, JS



JAMstack

J avascript
A PIs
M arkup

Javascript
APIs
Markup

Templated markup prebuilt at deploy time. Using a static site generator. Deployable anyhwere

J avascript

A PIs

M arkup

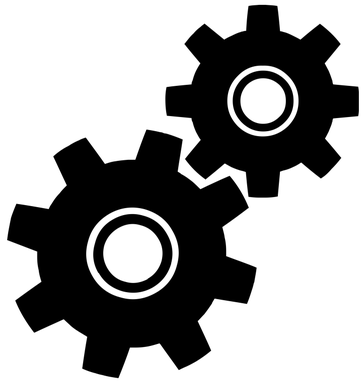
Server side processes and DB actions are abstracted into reusable APIs over HTTPS and JavaScript

Javascript

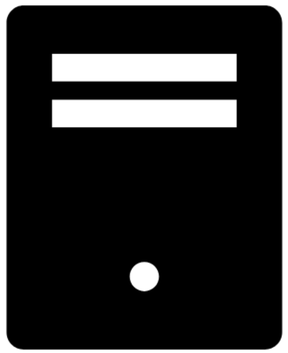
APIs

Markup

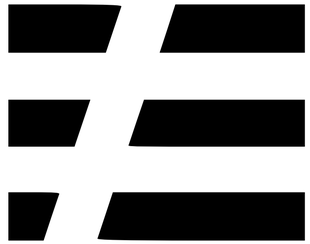
Dynamic processes are done on the client. Via JavaScript. Deployed markup is extended with functionality from APIs client-side.



build



deploy



enhance

netlify

Focus on builds and deployment

Prepared functions for common use cases

Ready for most web sites

ZEIT

All-in Serverless:
Every language, every technology

Builds through builders or commands

Static tags along

Azure

Enterprise level Cloud:

Azure DevOps
Azure Storage
Azure CDN
Azure Functions

No technology lock-in
Incremental adoption

The most important thing about JAMstack is that you can start right away with a small piece of your current website.

Hosting

Application

Content

Front-End

Hosting

Application

Content

Front-End

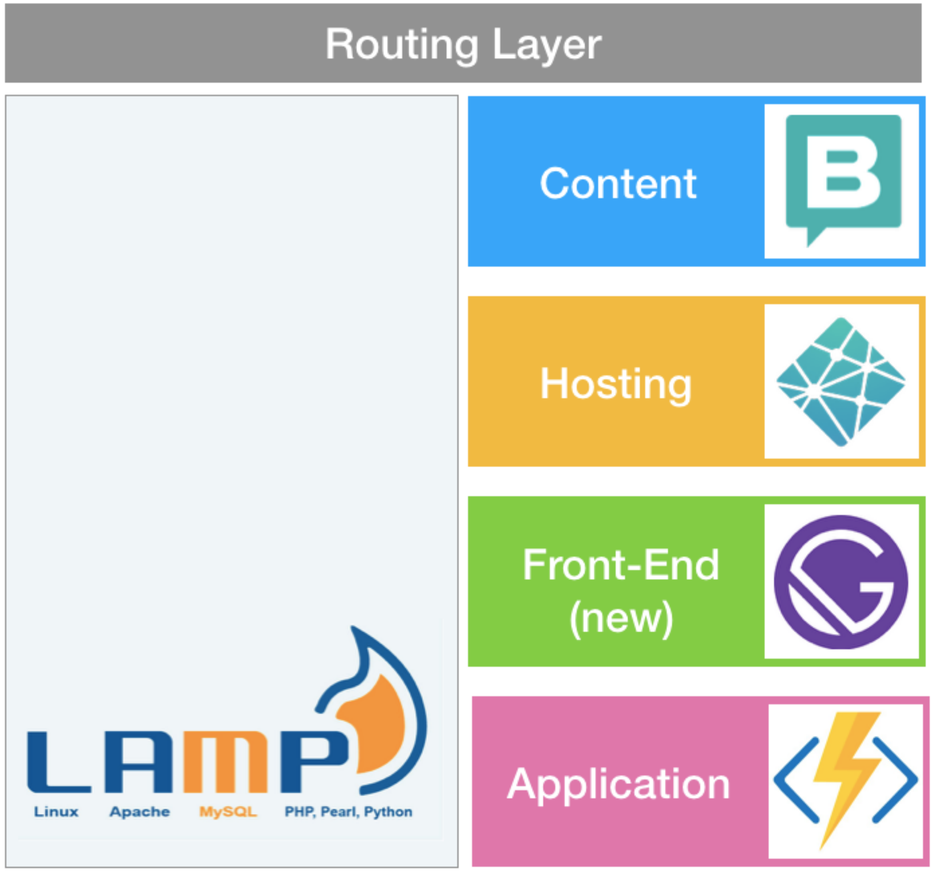
Hosting

Application

Content

Front-End

LAMP
Linux
Apache
MySQL
PHP, Pearl, Python


Routing Layer
LAMP
Linux
Apache
MySQL
PHP, Pearl, Python
Content
Hosting
Front-End
(new)
Application

Sum it up

Every piece is independent

Resilient, failsafe, sustainable

Incremental adoption

Full control of every part in your app

Lots of technologies: Fragmentation

Very platform specific

This is 3rd party land!

Exit strategies!

Every web site and web app that can be done with JAMstack, should be done with JAMstack

— Stefan Baumgartner

(every web site can be done with JAMstack)

— Stefan Baumgartner

@ddprrt

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