



**experts club**

## **Criando pipeline para distribuir SDK com JavaScript Obfuscator, AWS S3 e Github Actions**

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15/12/2021

# Agenda

- Sobre mim e a minha relação com o código;
- Sobre a aula
- Requisitos, ambiente e recursos
- Demo - Teoria
- Sobre o projeto
- Sobre os serviços usados
- Demo - Prática



# Sobre mim e a minha relação com o código

- Ismael Nascimento 'Ash'
- Desde 2014 na área da tecnologia
- CTO Code Coast
- Consultor (arquitetura/desenvolvimento)
- Redes sociais:
  - [https://www.instagram.com/\\_ismaelash](https://www.instagram.com/_ismaelash)



## Sobre a aula

- Continuous Integration / Continuous Delivery
- Javascript
- Criptografia
- Código necessário para a aula criado anteriormente:
  - <https://github.com/ismaelash/criando-pipeline-distribuir-sdk-obfuscator-s3-github-actions-2021-12-15>



# Requisitos, ambiente e recursos

- Requisitos para um melhor aproveitamento da aula:
  - Conta da AWS
  - Conta Github
- Ambiente e recursos necessários:
  - Visual Studio Code
  - Node



# Demo - Teoria

Google Analytics > Measurement > analytics.js

Search English

GuidesReferenceSupport

Fundamentals

Adding analytics.js to Your Site

How analytics.js Works

Creating Trackers

Getting and Setting Tracker Data

Sending Data to Google Analytics

Using Plugins

Debugging

Measuring common user interactions

Page Views

Event Measurement

Social Interactions

App / Screen Measurement

User Timings

Measure Exceptions

Advanced Topics

Cookies and User Identification

Cross-domain Measurement

Custom Dimensions and Metrics

Renaming the Global (ga) Object

Writing Plugins

Tasks

IP Anonymization

User Opt-out

Official Plugins

Advertising Features

Ecommerce

Enhanced Ecommerce

Enhanced link attribution

Linker

Solutions

Single Page Applications

Home > Products > Google Analytics > Measurement > analytics.js

Was this helpful?

## Add analytics.js to Your Site

The analytics.js library (also known as "the Google Analytics tag") is a JavaScript library for measuring how users interact with your website. This document explains how to add the Google Analytics tag to your site.

### The Google Analytics tag

The Google Analytics tag should be added near the top of the `<head>` tag and before any other script or CSS tags, and add the [property ID](#) of the Google Analytics property you wish to work with.

★ **Tip:** If you do not know your property ID, you can use the [Account Explorer](#) to find it.

```
<!-- Google Analytics -->
<script>
(function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
(i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
})(window,document,'script','https://www.google-analytics.com/analytics.js','ga');

ga('create', 'UA-XXXXX-Y', 'auto');
ga('send', 'pageview');
</script>
<!-- End Google Analytics -->
```

The above code does four main things:

- Creates a `<script>` element that starts asynchronously downloading the analytics.js JavaScript library from <https://www.google-analytics.com/analytics.js>
- Initializes a global `ga` function (called the [ga\(\)](#) command queue) that allows you to schedule commands to be run once the analytics.js library is loaded and ready to go.

On this page

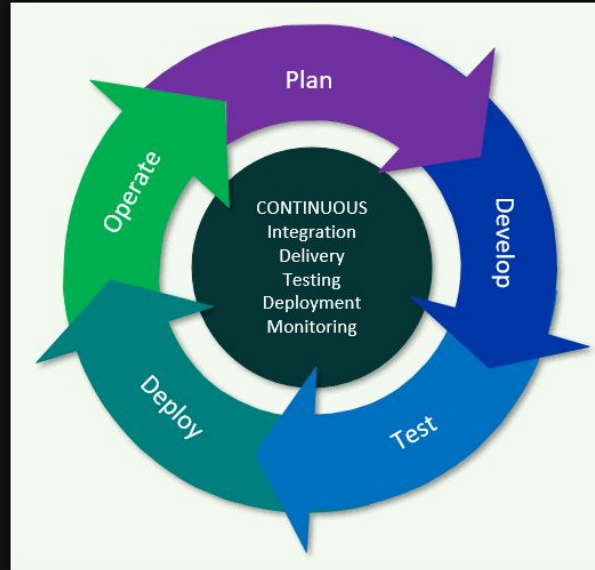
[The Google Analytics tag](#)

[Alternative async tag](#)

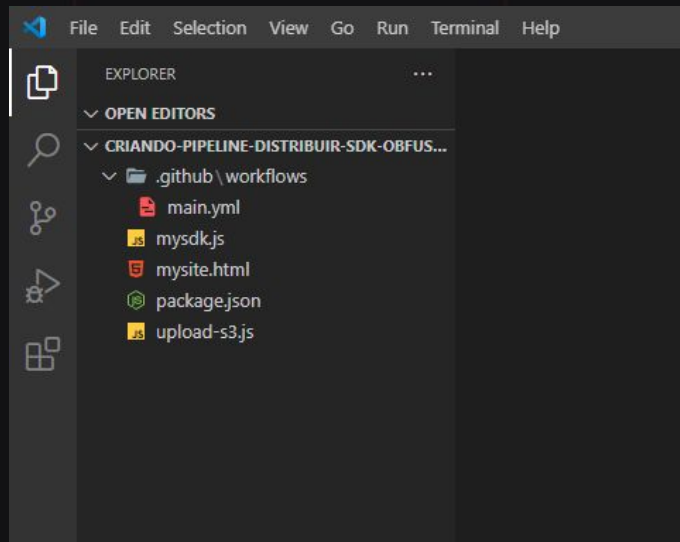
[What data does the Google Analytics tag capture?](#)

[Next steps](#)

# Demo - Teoria

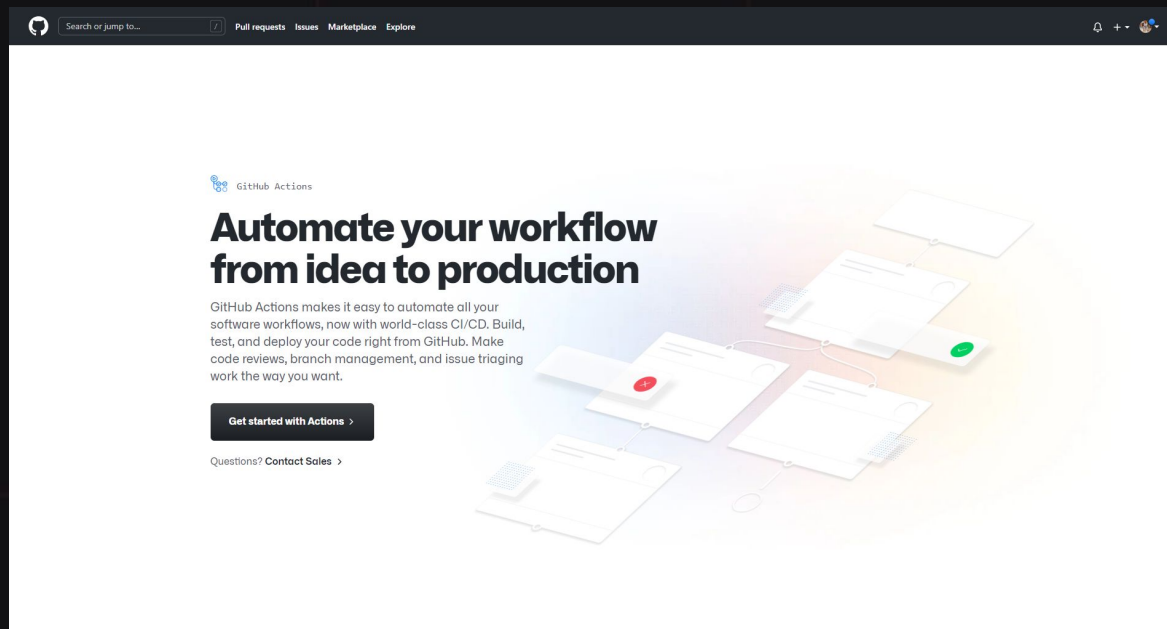


# Sobre o projeto

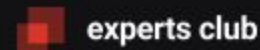




# Sobre os serviços usados

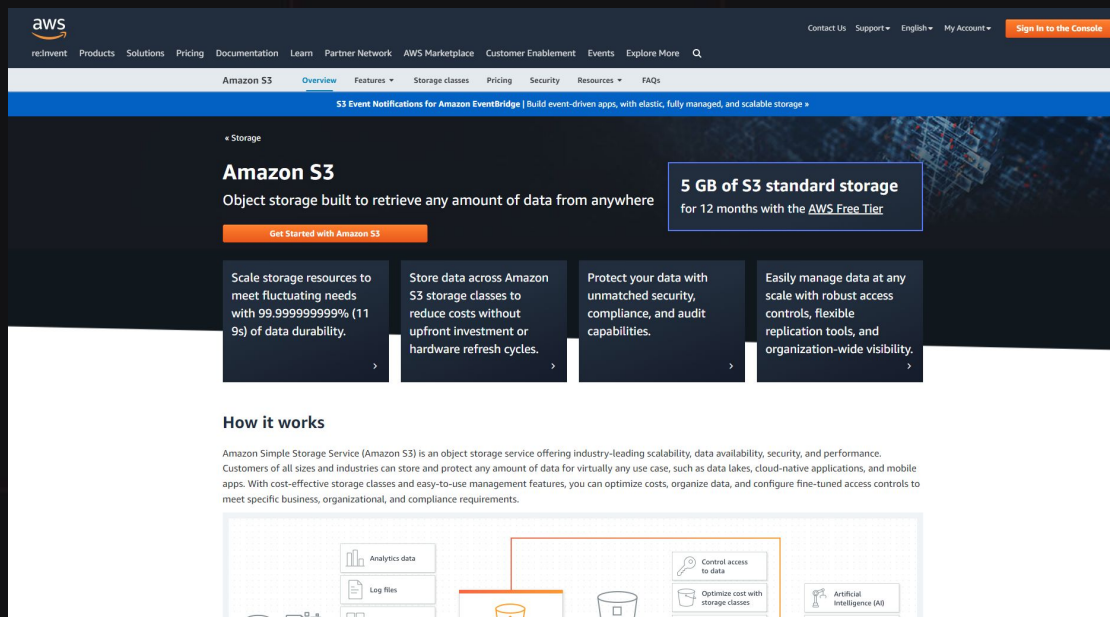


# Sobre os serviços usados



A screenshot of the GitHub repository page for "javascript-obfuscator". The page is in dark mode. At the top, there's a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below this, the repository name "javascript-obfuscator" is displayed with a "Public" badge. To the right, there are statistics: Sponsor, Watch (173), Fork (960), and Star (8.1k). The main content area is divided into two columns. The left column shows a list of files and their commit history, including .github, .husky, bin, examples, images, src, test, webpack, .eslintrc, .eslintrc.js, .gitignore, .ncurc, .npmignore, .npmrc, .nycrc, CHANGELOG.md, CODE\_OF\_CONDUCT.md, and CONTRIBUTING.md. The right column contains the "About" section, which describes the project as "A powerful obfuscator for JavaScript and Node.js". It includes a list of tags (nodejs, javascript, flow, security, encoding, cryptography, javascript-obfuscator, obfuscation, uglify, protection, obfuscate, js-obfuscator, typescript, browser, string, control-flow, obfuscator, mangle, literal, flattening), a list of links (Readme, BSD-2-Clause License, Code of conduct, 8.1k stars, 173 watching, 960 forks), a list of releases (3.0.0 release, Latest, 203 releases), and a section for "Sponsor this project".

# Sobre os serviços usados



The screenshot shows the Amazon S3 website. At the top is the AWS logo and navigation links: reinvent, Products, Solutions, Pricing, Documentation, Learn, Partner Network, AWS Marketplace, Customer Enablement, Events, Explore More, and a search icon. On the right, there are links for Contact Us, Support, English, My Account, and a Sign in to the Console button. Below the navigation bar is a blue banner with the text "S3 Event Notifications for Amazon EventBridge | Build event-driven apps, with elastic, fully managed, and scalable storage". The main content area has a dark background with a cityscape image. It features the "Amazon S3" title, a subtitle "Object storage built to retrieve any amount of data from anywhere", and a "Get Started with Amazon S3" button. To the right, a box highlights "5 GB of S3 standard storage for 12 months with the AWS Free Tier". Below this are four feature cards: "Scale storage resources to meet fluctuating needs with 99.999999999% (11 9s) of data durability.", "Store data across Amazon S3 storage classes to reduce costs without upfront investment or hardware refresh cycles.", "Protect your data with unmatched security, compliance, and audit capabilities.", and "Easily manage data at any scale with robust access controls, flexible replication tools, and organization-wide visibility." Below these cards is a "How it works" section with a paragraph explaining Amazon Simple Storage Service (Amazon S3) and a diagram showing data flow from various sources (Analytics data, Log files, Production data) to S3 storage classes, with associated features like Control access to data, Optimize cost with storage classes, and Artificial Intelligence (AI).

amazon

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Amazon S3 Overview Features Storage classes Pricing Security Resources FAQs

S3 Event Notifications for Amazon EventBridge | Build event-driven apps, with elastic, fully managed, and scalable storage

Storage

## Amazon S3

Object storage built to retrieve any amount of data from anywhere

Get Started with Amazon S3

5 GB of S3 standard storage for 12 months with the [AWS Free Tier](#)

Scale storage resources to meet fluctuating needs with 99.999999999% (11 9s) of data durability.

Store data across Amazon S3 storage classes to reduce costs without upfront investment or hardware refresh cycles.

Protect your data with unmatched security, compliance, and audit capabilities.

Easily manage data at any scale with robust access controls, flexible replication tools, and organization-wide visibility.

### How it works

Amazon Simple Storage Service (Amazon S3) is an object storage service offering industry-leading scalability, data availability, security, and performance. Customers of all sizes and industries can store and protect any amount of data for virtually any use case, such as data lakes, cloud-native applications, and mobile apps. With cost-effective storage classes and easy-to-use management features, you can optimize costs, organize data, and configure fine-tuned access controls to meet specific business, organizational, and compliance requirements.

Analytics data

Log files

Production data

Control access to data

Optimize cost with storage classes

Artificial Intelligence (AI)

# Demo - Prática





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# Referências

- <https://www.youtube.com/watch?v=P5jWqSYqAwQ>
- <https://developers.google.com/analytics/devguides/collection/analyticsjs>
- <https://github.com/features/actions>
- <https://github.com/javascript-obfuscator/javascript-obfuscator>
- <https://aws.amazon.com/s3/>
- <https://marketplace.visualstudio.com/items?itemName=ritwickdey.LiveServer>



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# Obrigado!

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