

João e o pé de Feijão:

Indo à nuvem com o
AWS Elastic Beanstalk

```
$ cat WhoAmI.txt
```

```
> Calebe Oliveira
```

👛 Software Engineer @ Paggue

💕 Ruby, Nodejs, PHP

👉 <https://calebe.xyz>

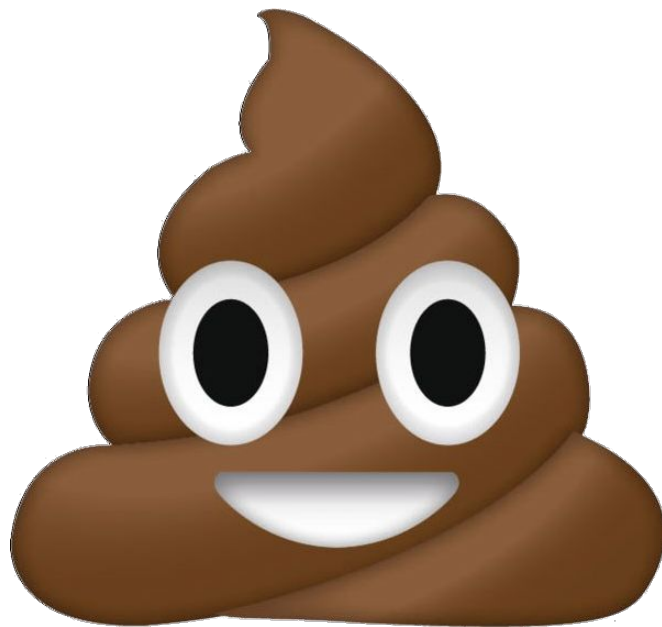


From ground to the cloud

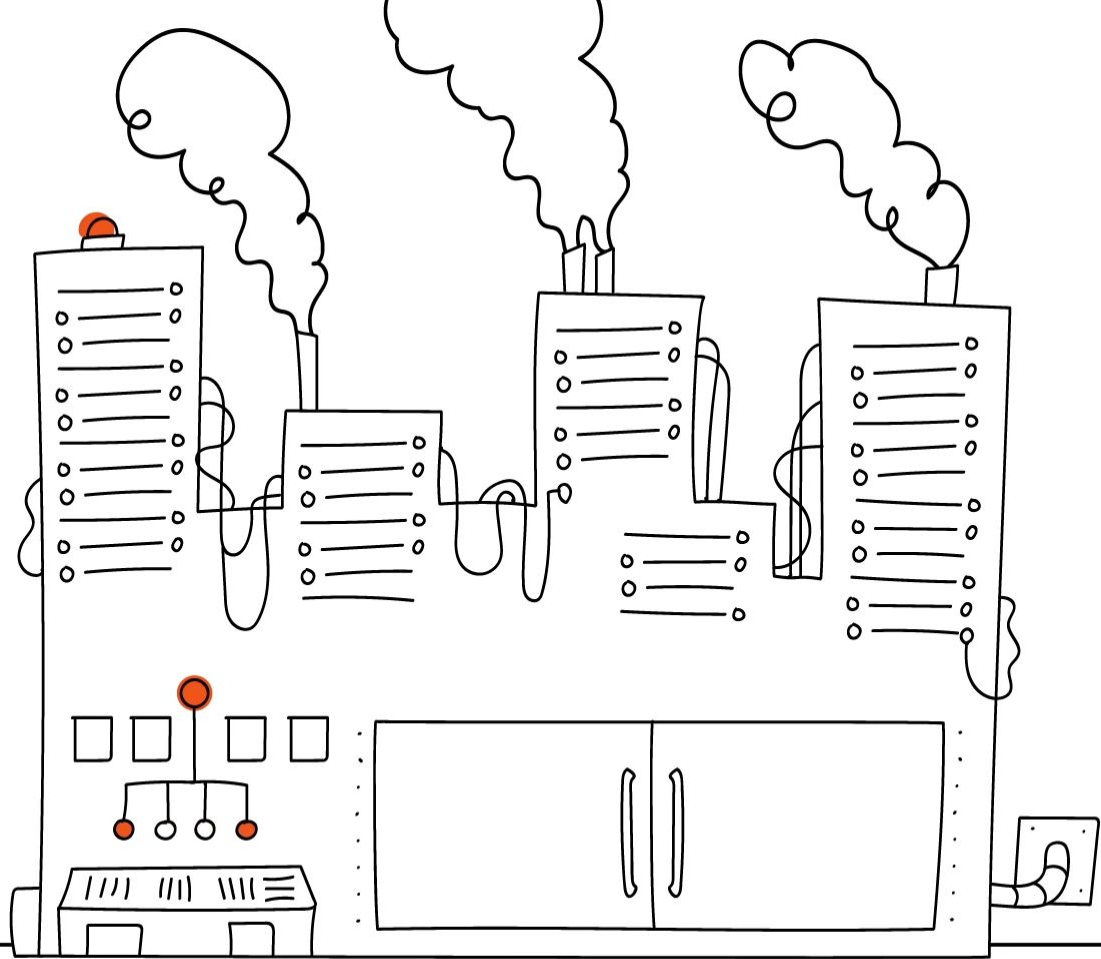




- ★ Server overload/underload
- ★ Disk is full
- ★ Ineffective firewall
- ★ cPanel
- ★ Database not scaling
- ★ FTP
- ★ SSH and git pull
- ★ Terrible uptime
- ★ Users pissed off
- ★ Backups?
- ★ Failover?
- ★ Availability zones?
- ★ Logs?
- ★ Access management?
- ★ CDN?
- ★ Security?



SYSTEM →



PERIODIC TABLE OF DEVOPS TOOLS (V3)

1 Os GI GitLab																														2 En Sp Splunk				
3 Fm Gh GitHub	4 En Dt Datical																												5 En XLr XebiaLabs XL Release	6 Fm Aws AWS	7 Pd Az Azure	8 En Gc Google Cloud	9 Fm Op OpenShift	10 Fm Sg Sumo Logic
11 Os Sv Subversion	12 En Db DBMaestro																												13 Os Dk Docker	14 En Ur UrbanCode Release	15 Pd Af Azure Functions	16 Pd Ld Lambda	17 Fm Ic IBM Cloud	18 Os Fd Fluentd
19 En Cw ISPW	20 En Dp Delphix	21 Os Jn Jenkins	22 Fm Cs Codeship	23 Os Fn FitNesse	24 Fr Ju JUnit	25 Fr Ka Karma	26 Fm Su SoapUI	27 En Ch Chef	28 Fr Tf Terraform	29 En XLd XebiaLabs XL Deploy	30 En Ud UrbanCode Deploy	31 Os Ku Kubernetes	32 Fm Cc CA CD Director	33 En Pr Plutora Release	34 Pd Al Alibaba Cloud	35 Os Os OpenStack	36 Os Ps Prometheus																	
37 Pd At Artifactory	38 Fm Rg Redgate	39 Pd Ba Bamboo	40 Fm Vs VSTS	41 Fr Se Selenium	42 Fr Jm JMeter	43 Os Ja Jasmine	44 Pd Sl Sauce Labs	45 En An Ansible	46 Os Ru Rudder	47 En Oc Octopus Deploy	48 Os Go GoCD	49 Os Ms Mesos	50 Pd Gke GKE	51 Fm Om OpenMake	52 Pd Cp AWS CodePipeline	53 Pd Cy Cloud Foundry	54 En It ITRS																	
55 Pd Nx Nexus	56 Os Fw Flyway	57 Os Tr Travis CI	58 Fm Tc TeamCity	59 Os Ga Gatling	60 Fr Tn TestNG	61 Fm Tt Tricentis Tosca	62 Pd Pe Perfecto	63 En Pu Puppet	64 Os Pa Packer	65 Fm Cd AWS CodeDeploy	66 En Ec ElectricCloud	67 Os Ra Rancher	68 Pd Aks AKS	69 Os Rk Rkt	70 Os Sp Spinnaker	71 Pd Ir Iron.io	72 Pd Mg Moogsoft																	
73 Fm Bb BitBucket	74 En Pf Perforce	75 Fm Cr Circle CI	76 Pd Cb AWS CodeBuild	77 Fr Cu Cucumber	78 Os Mc Mocha	79 Os Lo Locust.io	80 En Mf Micro Focus UFT	81 Os Sa Salt	82 Os Ce CFEngine	83 En Eb ElasticBox	84 En Ca CA Automic	85 En De Docker Enterprise	86 Pd Ae AWS ECS	87 Fm Cf Codefresh	88 Os Hm Helm	89 Os Aw Apache OpenWhisk	90 Os Ls Logstash																	

Os Open Source	Source Control Mgmt.	Deployment	Analytics
Fr Free	Database Automation	Containers	Monitoring
Fm Freemium	Continuous Integration	Release Orchestration	Security
Pd Paid	Testing	Cloud	Collaboration
En Enterprise	Configuration	AIOps	



Follow @xebialabs

91 En XLi XebiaLabs XL Impact	92 Os Ki Kibana	93 Fm Nr New Relic	94 En Dt Dynatrace	95 En Dd Datadog	96 Fm Ad AppDynamics	97 Os El ElasticSearch	98 Os Ni Nagios	99 Os Zb Zabbix	100 En Zn Zenoss	101 En Cm Checkmarx SAST	102 En Wp Signal Sciences WPP	103 En Bd BlackDuck	104 Os Sr SonarQube	105 Os Hv HashiCorp Vault
106 En Sw ServiceNow	107 Pd Jr Jira	108 Fm Tl Trello	109 Fm Sk Slack	110 Fm St Stride	111 En Cn CollabNet VersionOne	112 En Ry Remedy	113 En Ac Agile Central	114 Pd Og OpsGenie	115 Pd Pd Pagerduty	116 Os Sn Snort	117 Fm Tw Tripwire	118 En Ck CyberArk	119 En Vc Veracode	120 En Ff Fortify SCA



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FIX IT

Server drive components



aws





ELASTIC BEANSTALK

JAVA :

PHP :

PYTHON :


ELASTIC
BEANSTALK

: .NET

: NODE.js

: RUBY

: DOCKER



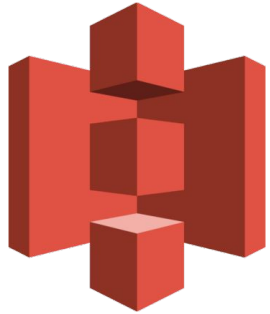
EC2

- VPSs
- Firewalls
- IPs
- Networking
- Load balance



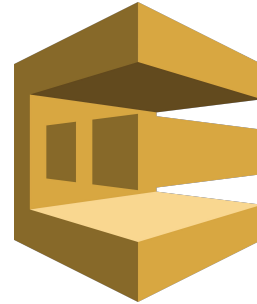
Cloudwatch

- Metrics
- Logs
- Alarms
- Auto scaling



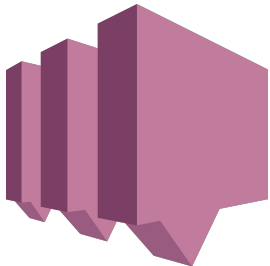
S3

- Storage
- CDN
- Static files
- App code versioning



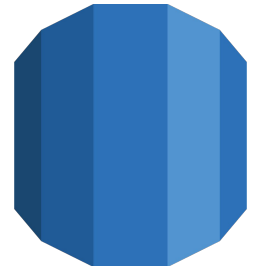
SQS

- Limitless queueing service



SNS

- Notification when sh*t happens



RDS

- Relational database
- Clustering
- Replicas

AWS services



Elastic Beanstalk
Run and Manage Web Apps

Simple Queue Service

Simple Notification Service

Route 53

EC2

EFS

> All services

Build a solution

Get started with simple wizards and automated workflows.



Launch a virtual machine

With EC2 or Lightsail
~1-2 minutes



Build a web app

With Elastic Beanstalk
~6 minutes



Host a static website

With S3, CloudFront, Route 53
~5 minutes



Connect an IoT device

With AWS IoT
~5 minutes



Start a development project

With CodeStar
~5 minutes



Register a domain

With Route 53
~3 minutes

[See more](#)

Learn to build

Learn to deploy your solutions through step-by-step guides, labs, and videos.

[See all](#)

Websites

DevOps

Backup and recovery

Helpful tips



Manage your costs

Get real-time billing alerts based on your costs and usage budgets. [Start now](#)



Create an organization

Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)

Explore AWS

Amazon Relational Database Service (RDS)

RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle and SQL Server. [Learn more](#)

Real-Time Analytics with Amazon Kinesis

Stream and analyze real-time data, so you can get timely insights and react quickly. [Learn more](#)

Get Started with Containers on AWS

Amazon ECS helps you build and scale containers for a size application. [Learn more](#)

AWS Marketplace

Welcome to AWS Elastic Beanstalk

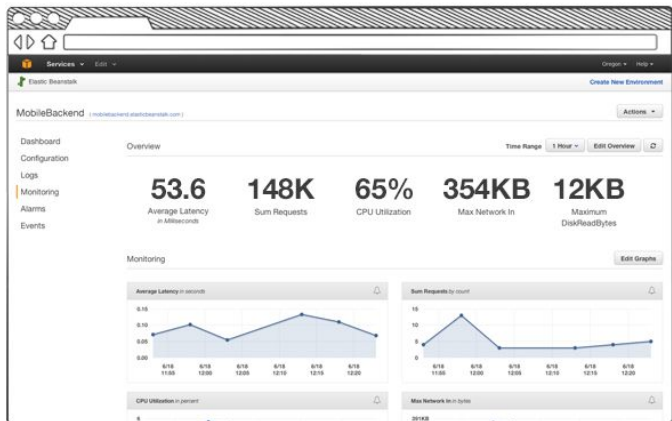
With Elastic Beanstalk, you can **deploy**, **monitor**, and **scale** an application quickly and easily. Let us do the heavy lifting so you can focus on your business.

To deploy your **existing web application**, create an [application source bundle](#) and then [create a new application](#). If you're using [Git](#) and would prefer to use it with our command line tool, please see [Getting Started with the EB CLI](#).

To deploy a **sample application** with just one click, select a platform and click **Launch Now**.

Looking for a different platform? [Let us know](#).

Launch Now



Get Started in Three Easy Steps



Select a Platform



Upload an Application or Use a Sample



Run it!

Start Now by Selecting Your Platform

Application Information

To create a new application, enter the details of your application. [Learn more.](#)

Application name:	<input type="text" value="php-sample-app"/>	Must be less than 100 characters and cannot contain a /
Description:	<input type="text" value="Sample PHP App"/>	Optional.

Cancel

Next

New Environment

AWS Elastic Beanstalk has two types of environment tiers to support different types of web applications. Web servers are standard applications that listen for and then process HTTP requests, typically over port 80. Workers are specialized applications that have a background processing task that listens for messages on an Amazon SQS queue. Worker applications post those messages to your application by using HTTP.

Web Server Environment

Provides resources for an AWS Elastic Beanstalk web server in either a single instance or load-balancing, auto scaling environment. [Learn more.](#)

[Create web server](#)

Worker Environment*

Provides resources for an AWS Elastic Beanstalk worker application in either a single instance or load-balancing, auto scaling environment. [Learn more.](#)

[Create worker](#)

 * Worker environments require additional permissions to access other AWS services. [Learn more.](#)

[Cancel](#)[Done](#)

- Application Info
- New Environment
- Environment Type**
- Application Version
- Environment Info
- Additional Resources
- Configuration Details
- Environment Tags
- Permissions
- Review Information

Environment Type

Choose the platform and type of environment to launch.

Predefined configuration: Looking for a different platform? [Let us know.](#)

AWS Elastic Beanstalk will create an environment running PHP 5.6 on 64bit Amazon Linux 2015.09 v2.0.4. [Change platform version.](#)

Environment type: [Learn more](#)

Cancel

Previous

Next

- Application Info
- New Environment
- Environment Type
- Application Version**
- Environment Info
- Additional Resources
- Configuration Details
- Environment Tags
- Permissions
- Review Information

Application Version

Select a source for your application version.

Source: Sample application

Upload your own ([Learn more](#))

php-v1.zip

S3 URL

(e.g. <https://s3.amazonaws.com/s3Bucket/s3Key>)

Cancel

Previous

Next

- Application Info
- New Environment
- Environment Type
- Application Version
- Environment Info**
- Additional Resources
- Configuration Details
- Environment Tags
- Permissions
- Review Information

Environment Information

Enter your environment information. [Learn more.](#)

Environment name:

Environment URL: .elasticbeanstalk.com

[Check availability](#)

Description: Optional: 200 character maximum

Cancel

Previous

Next

Command Line Interface (v3) ▾

If you want to use a command line to create, manage, and scale your Elastic Beanstalk applications, please use the Elastic Beanstalk Command Line Interface (EB CLI).

Get Started

```
$ mkdir HelloWorld
$ cd HelloWorld
$ eb init -p PHP
$ echo "Hello World" > index.html
$ eb create dev-env
$ eb open
```

To deploy updates to your applications, use **'eb deploy'**.

[Installing the AWS EB CLI](#)
[EB CLI Command Reference](#)

Learn More

[Get Started using Elastic Beanstalk](#)
[What Is AWS Elastic Beanstalk?](#)
[How Does AWS Elastic Beanstalk Work?](#)

All Applications

Filter by Application Name:

php-sample-app

[Swap URLs](#) [Actions ▾](#)

<p>phpSampleApp-env</p> <hr/> <p>Environment tier: Web Server Running versions: First Release Last modified: 2015-11-19 15:45:39 UTC-0800 URL: phpsampleapp-env.elasticbeanstalk.com</p>
--

php-sample-app ▸ phpSampleApp-env (Environment ID: e-mc1fgmezzi, URL: phpsampleapp-env.elasticbeanstalk.com)[Actions](#) ▾

- Dashboard
- Configuration
- Logs
- Health ^{NEW}
- Monitoring
- Alarms
- Events
- Tags

Overview

[Refresh](#)

Health

Ok

[Causes](#)

Running Version

First Release

[Upload and Deploy](#)

Configuration

64bit Amazon Linux 2015.09
v2.0.4 running PHP 5.6[Change](#)

Recent Events

[Show All](#)

Time	Type	Details
2015-11-19 19:14:13 UTC-0800	INFO	Environment health has transitioned from Warning to Ok.
2015-11-19 19:13:13 UTC-0800	WARN	Environment health has transitioned from Ok to Warning. 1 out of 1 instances are impacted. See instance health for details.
2015-11-19 15:45:39 UTC-0800	INFO	Successfully launched environment: phpSampleApp-env
2015-11-19 15:45:28 UTC-0800	INFO	Environment health has transitioned from Pending to Ok.
2015-11-19 15:44:28 UTC-0800	INFO	Added instance [i-97e81e4d] to your environment.

Congratulations!

Your AWS Elastic Beanstalk *PHP* application is now running on your own dedicated environment in the AWS Cloud

You are running PHP version 5.6.14

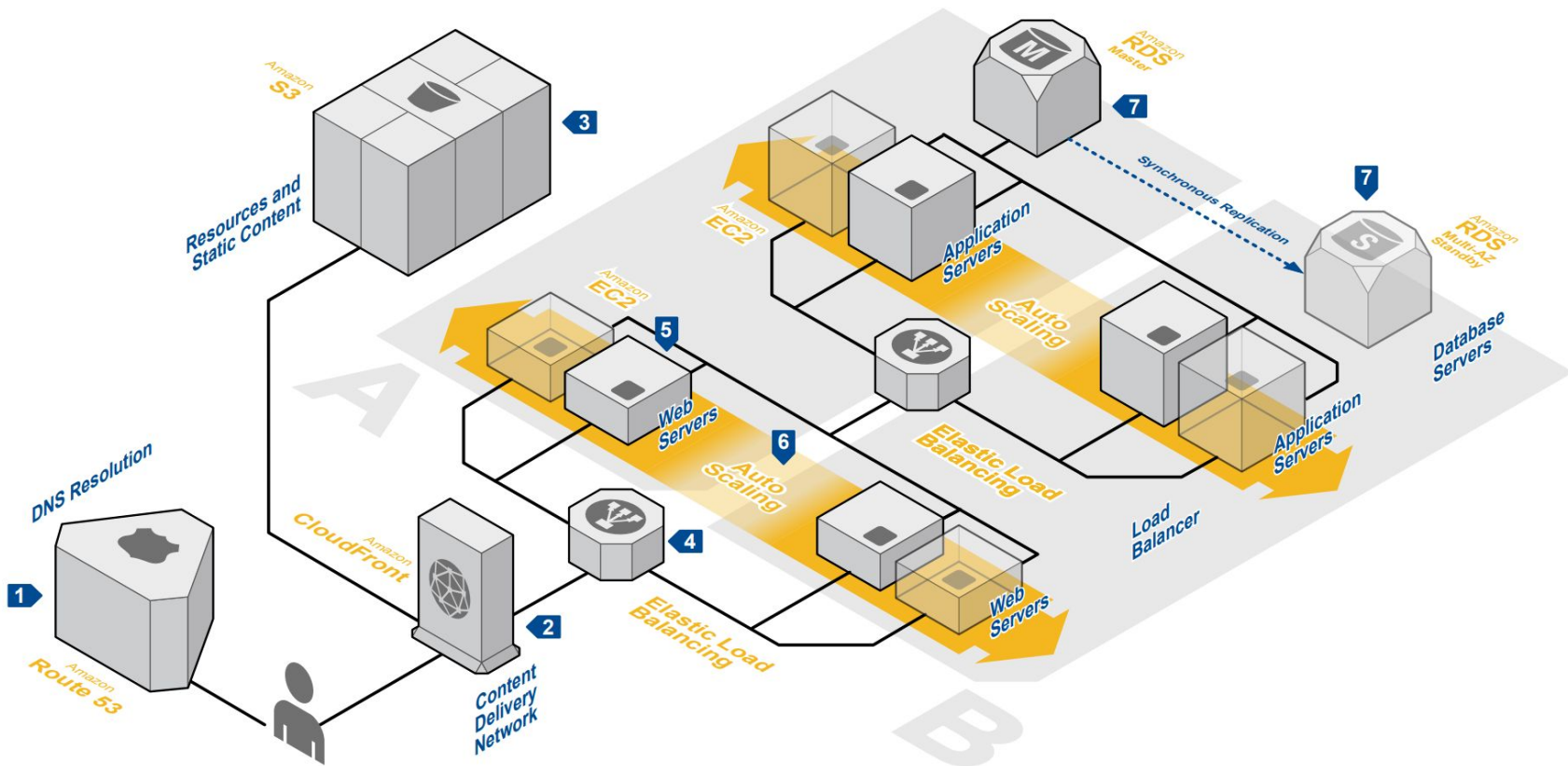
What's Next?

- [AWS Elastic Beanstalk overview](#)
- [Deploying AWS Elastic Beanstalk Applications in PHP Using Eb and Git](#)
- [Using Amazon RDS with PHP](#)
- [Customizing the Software on EC2 Instances](#)
- [Customizing Environment Resources](#)

AWS SDK for PHP

- [AWS SDK for PHP home](#)
- [PHP developer center](#)
- [AWS SDK for PHP on GitHub](#)







CodePipeline



demopipeline-Pipeline



View progress and manage your pipeline.

[Edit](#)[Release change](#)

Source

SourceRepo

GitHub



✔ Succeeded 1 day ago

bae11ec

Build

JenkinsBuild

demopipeline-Jenkins



✔ Succeeded 1 day ago Details

Staging

BetaDeploy

AWS CodeDeploy



✔ Succeeded 1 day ago Details

Stage

Build

JenkinsBuild
demopipeline-Jenkins

Stage

Staging

Cancel

Action

BetaDeploy
AWS CodeDeploy

Action

Action

VerifyDeployment
AWS Lambda

UITesting
Ghost Inspector UI Testing

Action

Action

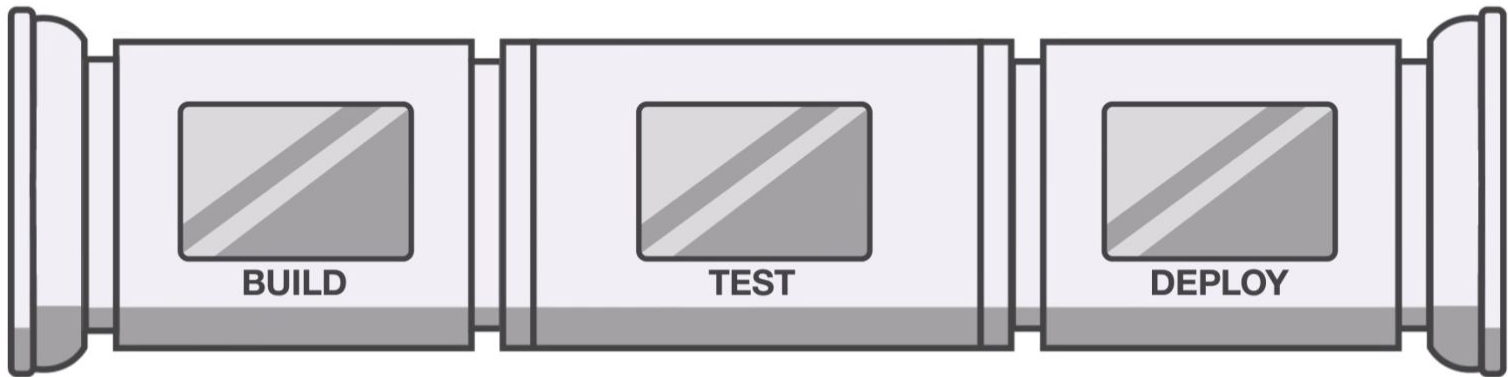
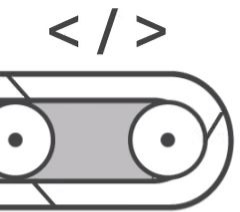
Stage

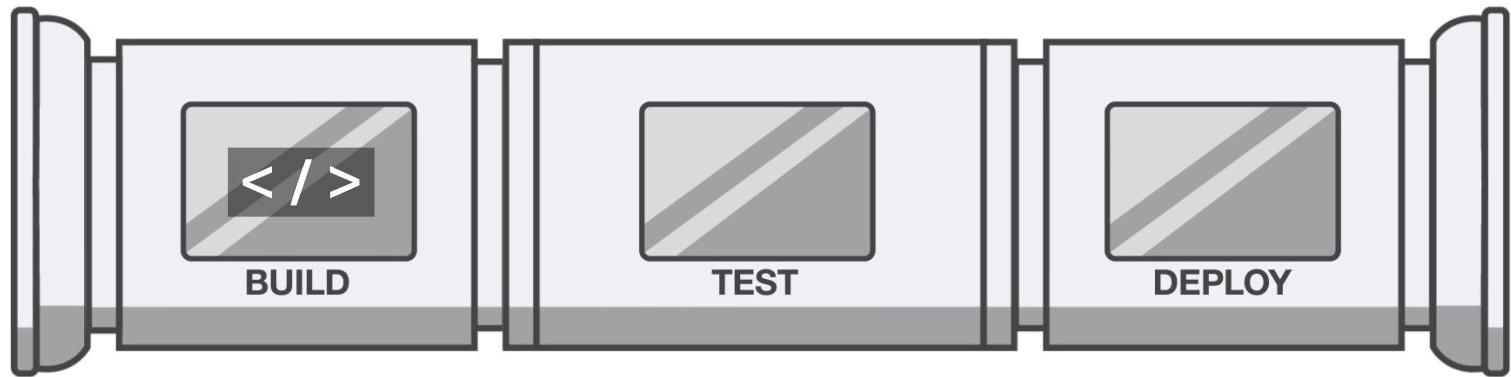
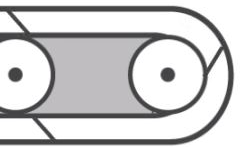
Add action

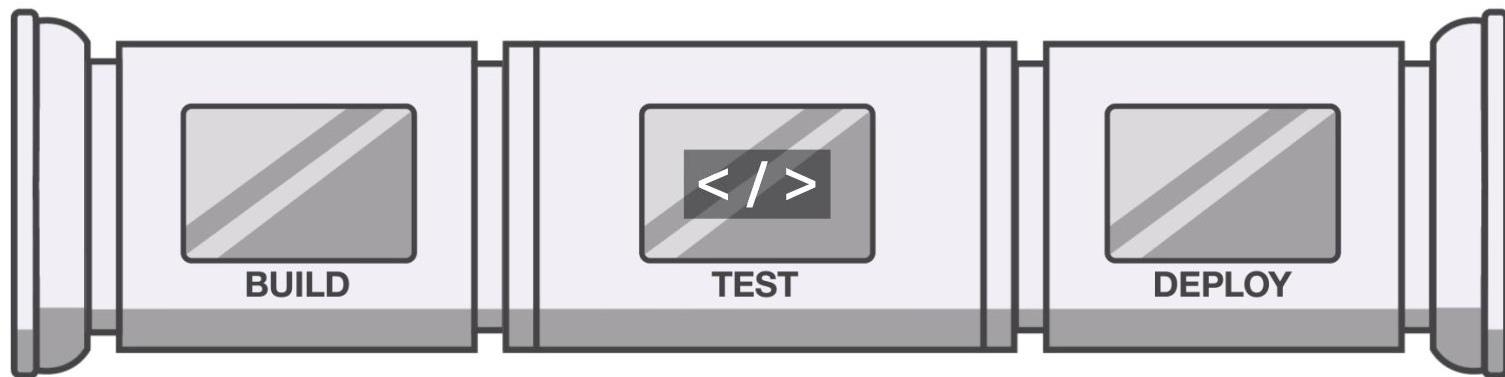
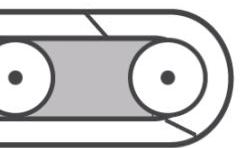
Choose a serial action from the action category list.

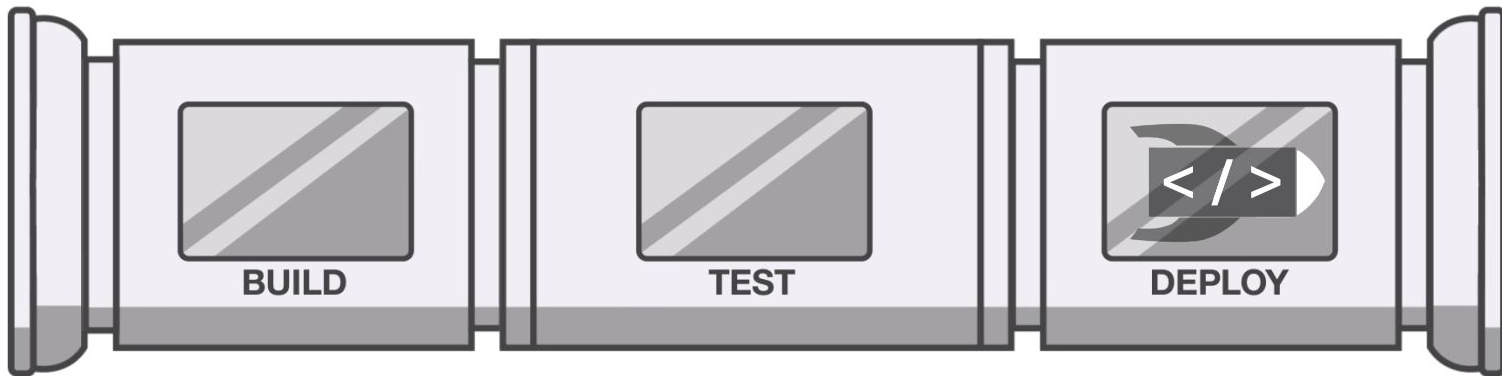
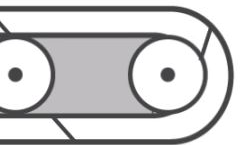
Action category*

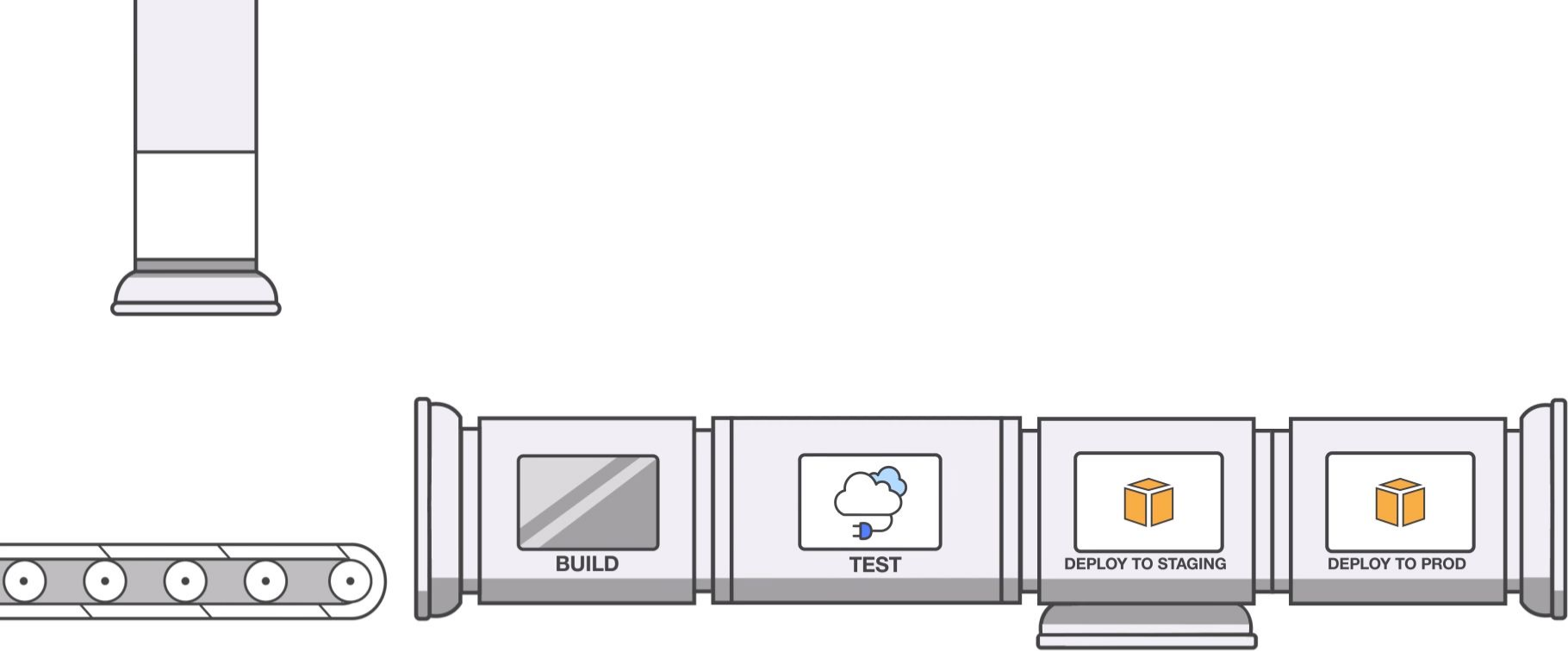
- Approval
- Source
- Build
- Test
- Deploy
- Invoke

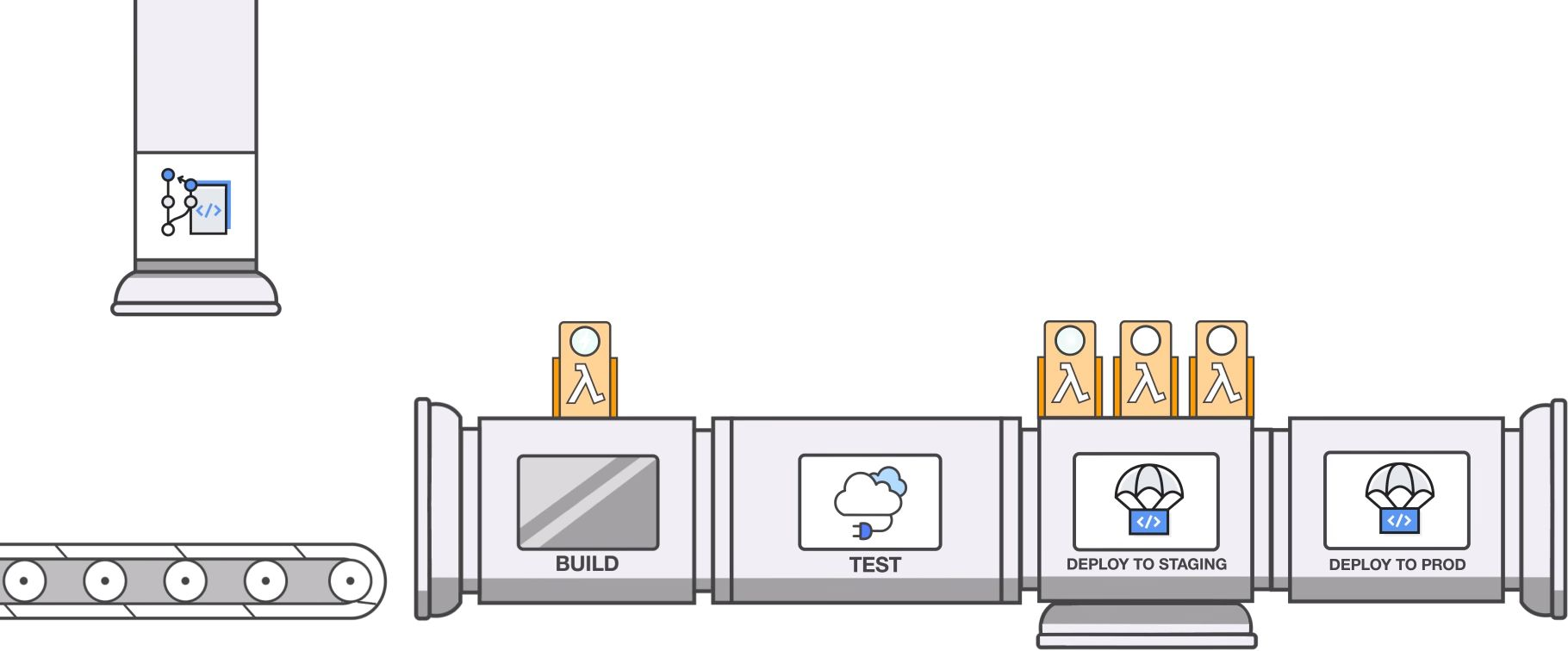


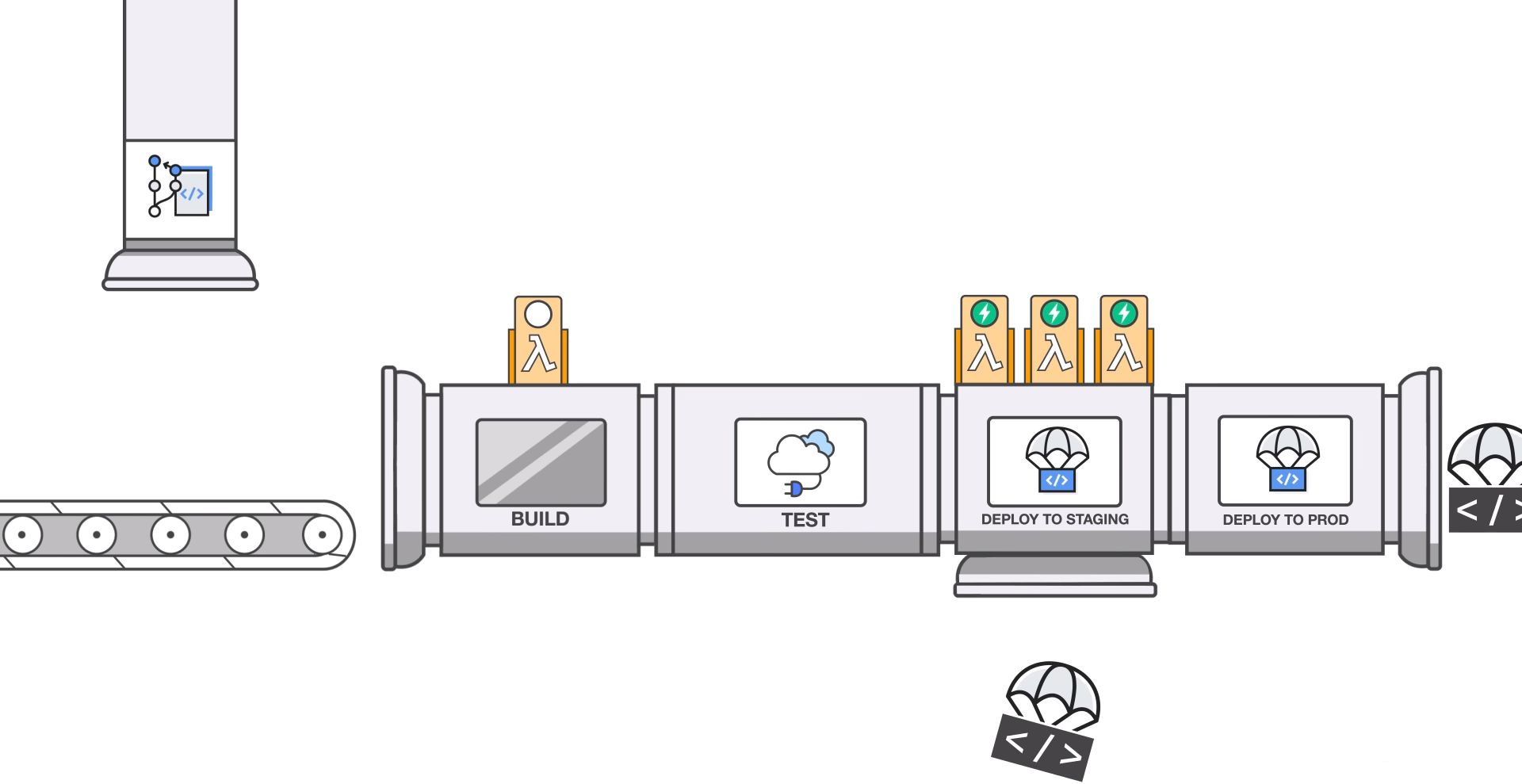












Lessons learned

- Migrate only when you rly need
- Explore other vendors
- Seize the free tier
- Keep the mental sanity

Thank you!

**FRIENDS DON'T
LET FRIENDS
BUILD DATA CENTERS**

