



Introducción a Fury II

// Paas de Mercadolibre

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Agenda



01 Ciclo de Desarrollo

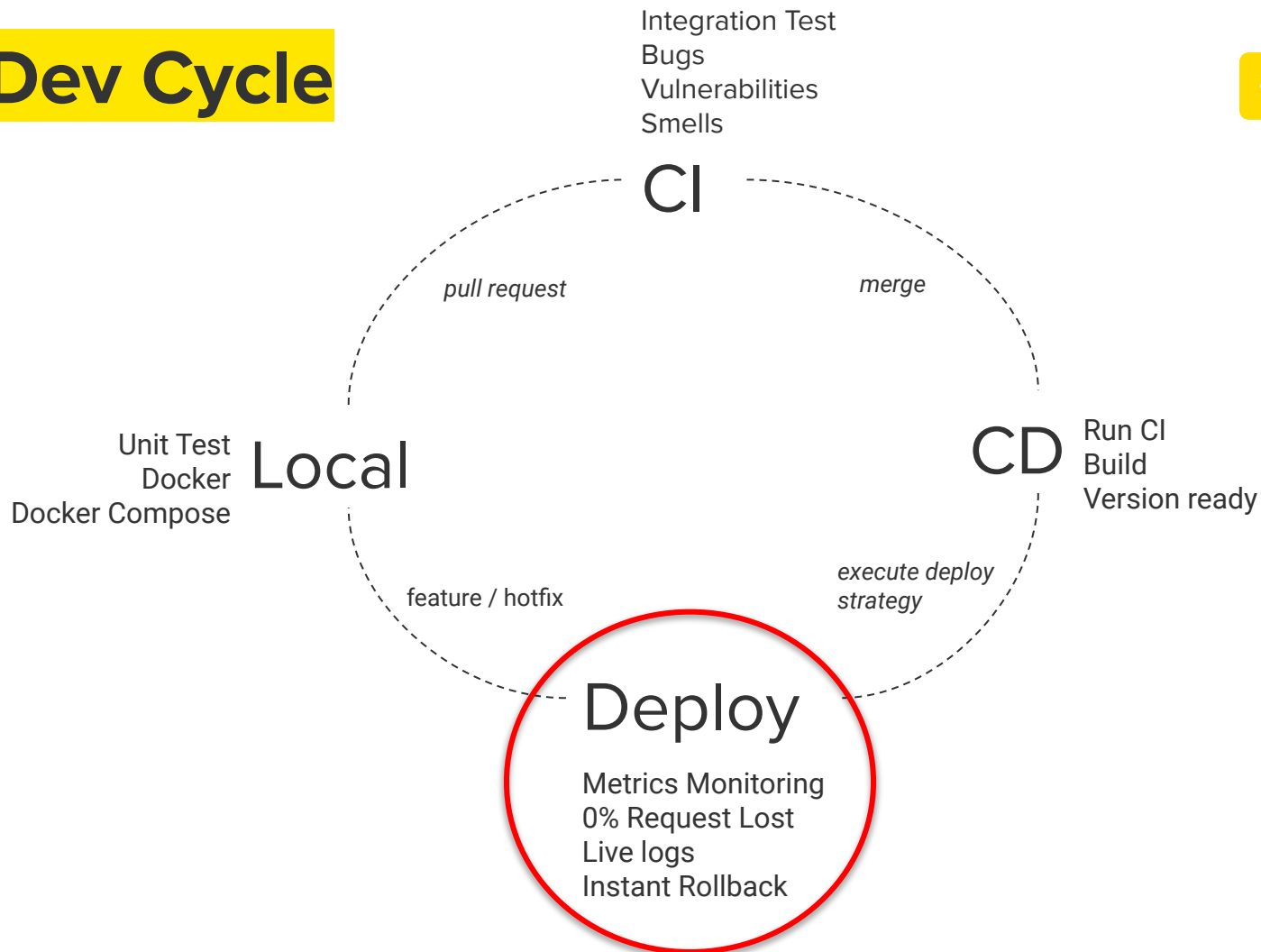
03 Deployments

02 Webservices en Fury

IT BOARDING

BOOTCAMP

Dev Cycle



Fury app versions

Versions

Name	Type	Branch	Status	Username	Created	Actions
0.4.0	RELEASE	develop	FINISHED	gasgonzalez	4 months ago	View logs ▼
0.4.0-dev2	NONE	feature/last-version	FINISHED	gasgonzalez	4 months ago	View logs ▼
0.4.0-dev1	NONE	feature/last-version	FINISHED	gasgonzalez	4 months ago	View logs ▼
0.3.0	RELEASE	develop	FINISHED	gasgonzalez	4 months ago	View logs ▼
0.3.0-dev2	NONE	feature/last-version	FINISHED	gasgonzalez	4 months ago	View logs ▼
0.3.0-dev1	NONE	feature/last-version	FINISHED	gasgonzalez	5 months ago	View logs ▼
0.2.1-test-1	TEST	develop	FINISHED	ggimenez	5 months ago	View logs ▼
0.3.0-dev	NONE	feature/os	FINISHED	gasgonzalez	9 months ago	View logs ▼
0.2.0	RELEASE	master	FINISHED	ggimenez	9 months ago	View logs ▼
0.2.0-rc-1	CANDIDATE	release/metrics_to_datadog	FINISHED	ggimenez	9 months ago	View logs ▼

Fury services



Audits

Keeps the traceability of apps, storing relevant events information (eg. who, what, when)



Bazooka

Manages and runs stress/performance testing



BigQ Topic

Publish services for async notifications between components



BigQ Consumer

Subscriber services for async notifications between components



Cache

Distributed in-memory key-value cache.



Configurations

Makes easier the task of managing app settings, from the definition to the deployment.



Databases

MySQL-based DBaaS for relational data storage



Document Search

It's a highly available and distributed document database and search engine



Fury Data Apps

Framework for the development and deployment of machine learning solutions



Jobs

Create and manage tasks that run in a configurable schedule



Key Value Store

Store, retrieve and manage data structures commonly known as dictionary or hash



Lock

Prevents concurrent access / operations over distributed accessible resources



Object Storage

Stores, retrieves and manages any kind of object in a public or in a private storage



Secrets

Store sensitive data like passwords and keys that only the running application can access.



Sequence

Provides unique ranges of numeric IDs



Sessions

Manages distributed frontend web sessions across Fury instances.



Traffic Replayer

Allows us to simulate real past GETs requests/response traffic



Web

A classic HTTP server for both backends and frontends to receive traffic with load balancing and autoscaling.



Streams

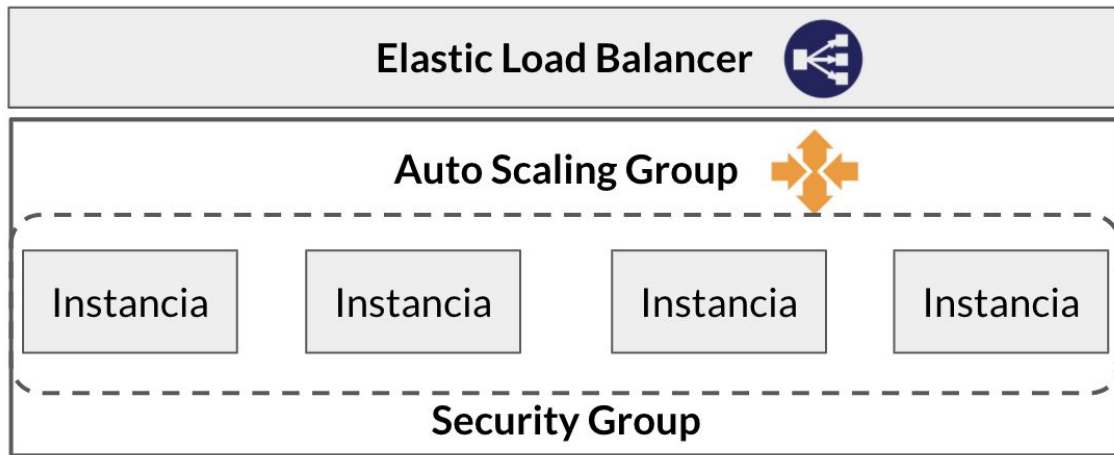
Allows to transmit ordered data (based on a partition key) to different destinations (sinks)

NEW

¿Qué es un **scope** en Fury?








Es un web service con una versión del código de la aplicación empaquetada, instalada en una infraestructura y lista para recibir tráfico balanceado en `<scope>.<app>.melifrontends.com`.





Crear Scope

Create scope

Application	client-backend
Name	<input type="text" value="Name"/>
Test	<div><div><div></div></div><div>Select if this is a test service</div><div></div></div>
Version	<div><div><div></div></div><div>Select a version</div><div></div></div>
Core-metric 	<div><div><div></div></div><div>Select a value</div><div></div></div>
Core-metric-site 	<div><div><div></div></div><div>Select a value</div><div></div></div>
Traffic-type 	<div><div><div></div></div><div>Select a value</div><div></div></div>
User-affectation 	<div><div><div></div></div><div>Select a value</div><div></div></div>
Secrets 	<div><div><div></div></div><div>Select secret</div><div></div></div>
Advanced configurations <div></div>	

Cancel

Create

Deploy

Select your version

Quick search...

- ☒ 1.0.12 (develop) 1 year ago
- ☐ 1.0.11 (develop) 1 year ago
- ☐ 1.0.10 (fix/endpoint-events-today) 1 year ago
- ☐ 1.0.9 (develop) 1 year ago
- ☐ 1.0.8 (develop) 1 year ago

Select your scopes

Quick search...

Filter

- ☐ test-no-mesh 1.0.12
- ☒ allfresh 1.0.12
- ☐ test-sticky 1.0.12
- ☐ prod-tmp 1.0.12

Select your strategy

BLUE GREEN

ALL IN

SAFE

ROLLING UPDATE

CANARY

MIGRATION



Percentage deploy: This strategy will deploy the selected version in a new cluster. It will gradually shift traffic by the defined percentage (block size). A rollback will shift the traffic back to the old version and terminate the new cluster.

Advanced configuration



Block size
10



Interval
60



Max. failures
10



Pool size increment
1



Estrategias de deploy

- Blue Green
- All In
- Rolling Update
- Canary
- Safe

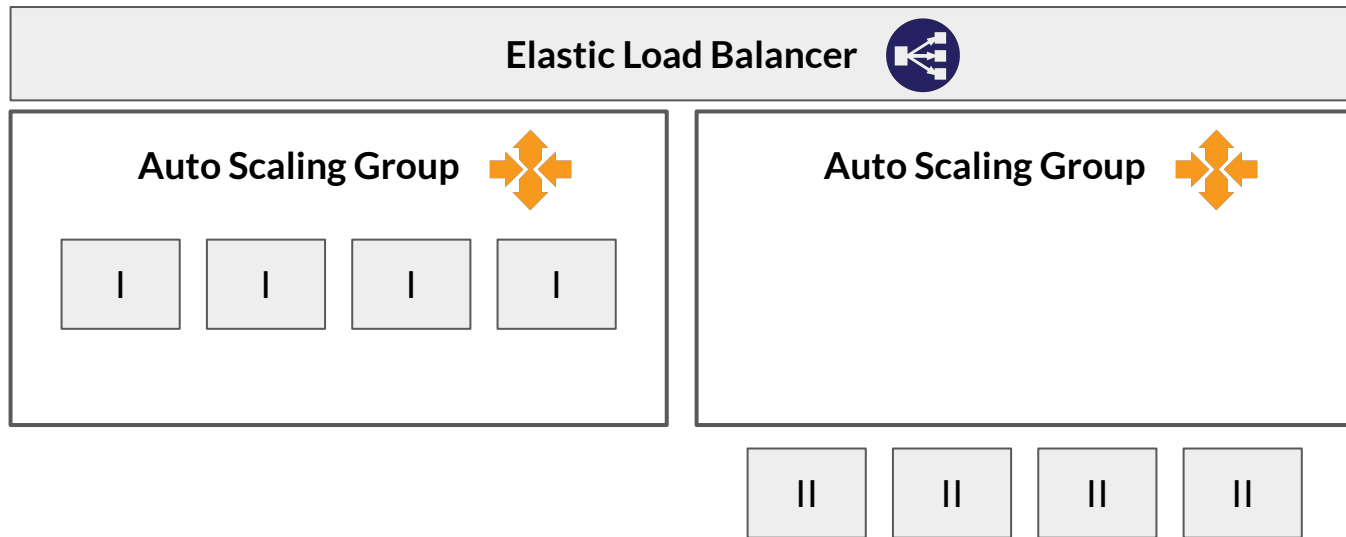


Documentación de
[Deploy](#)

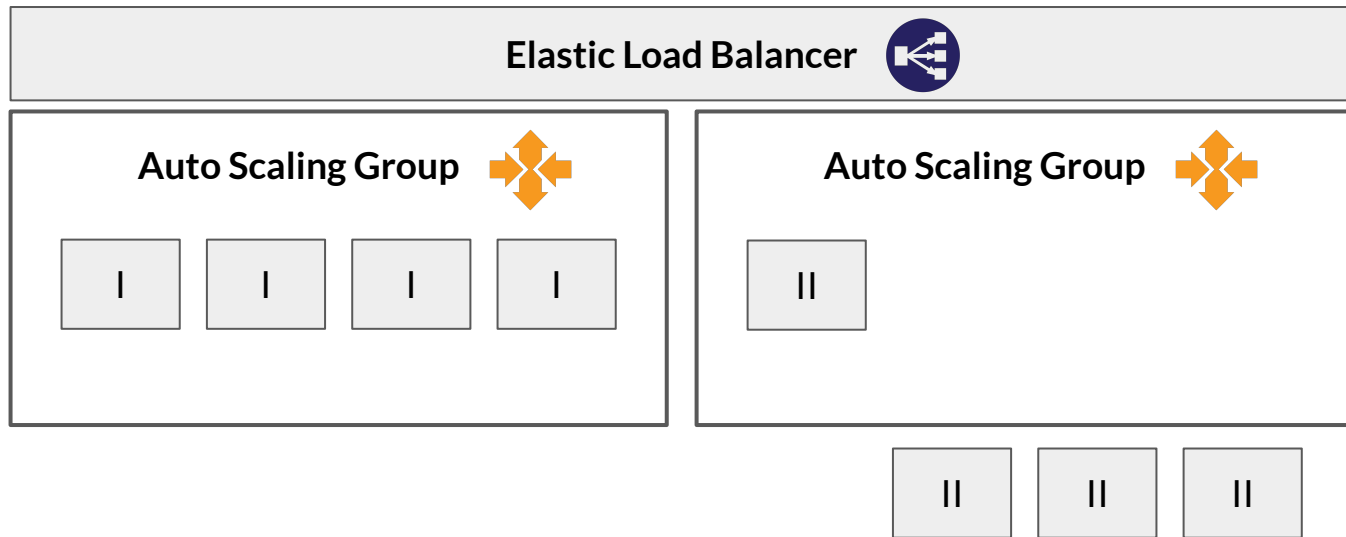
Blue Green

- Recrea infraestructura
- Rollback rápido
- Estrategia por default

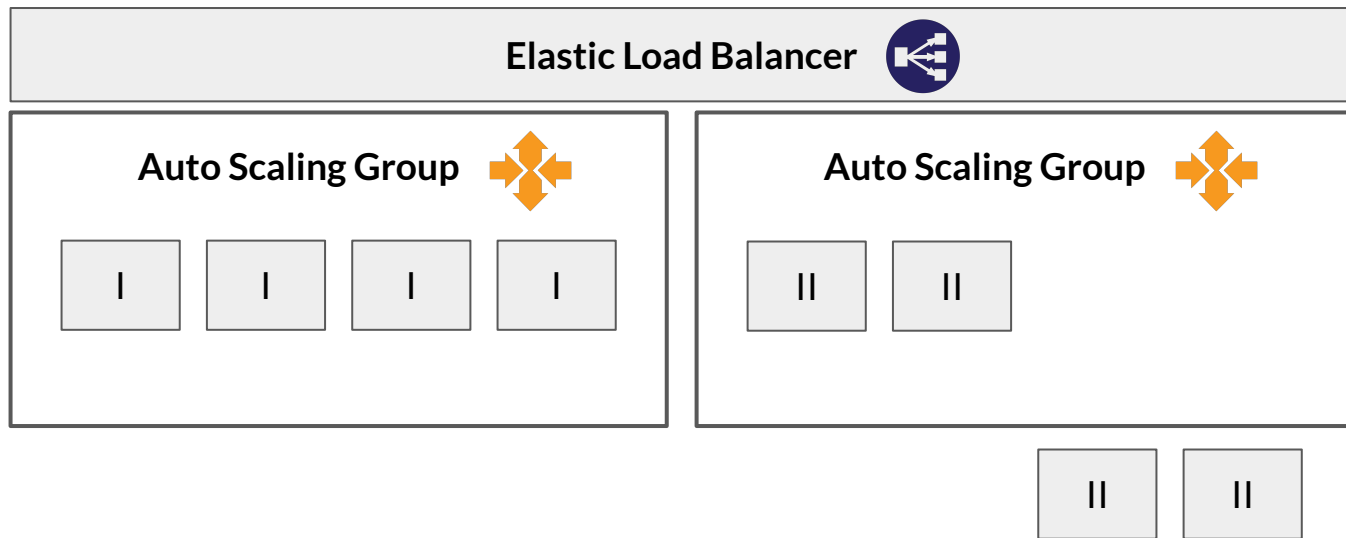
Blue Green



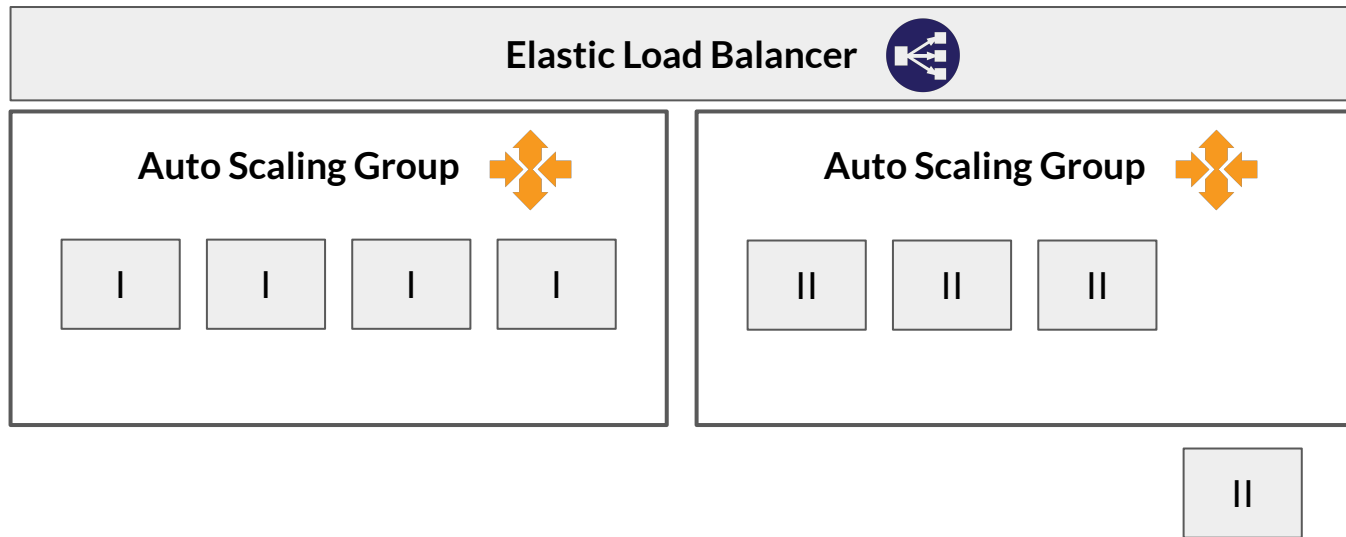
Blue Green



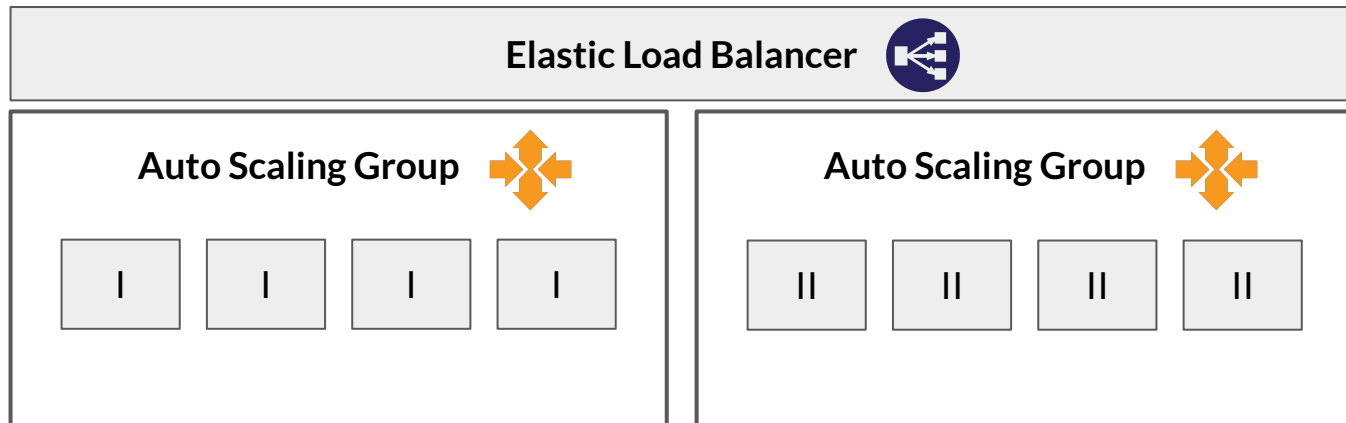
Blue Green



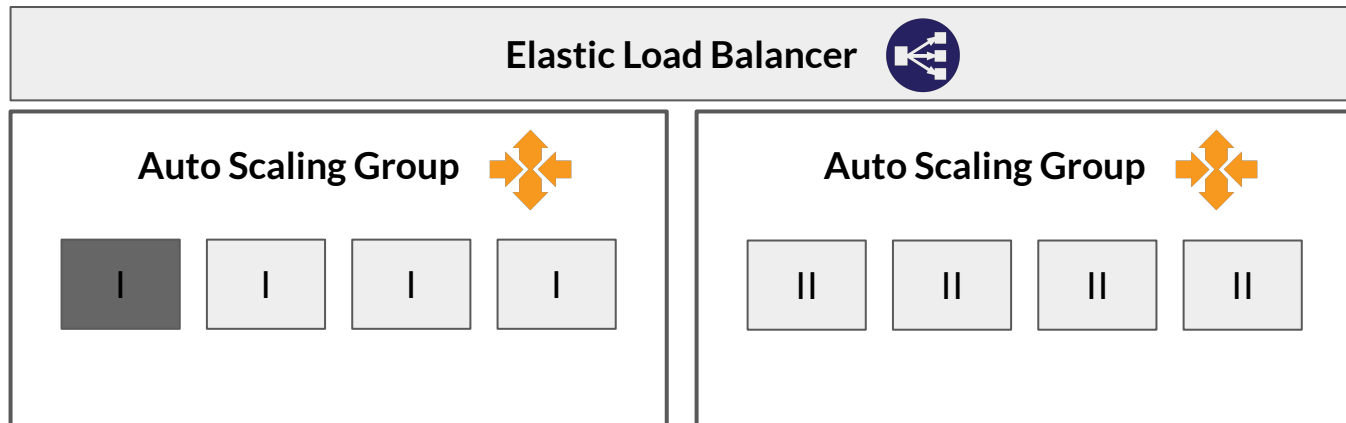
Blue Green



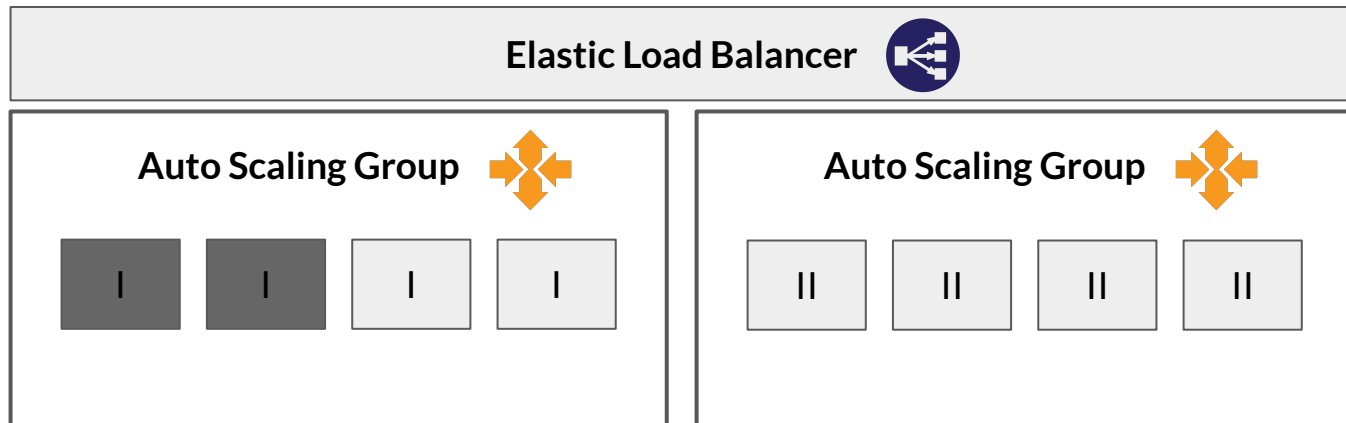
Blue Green



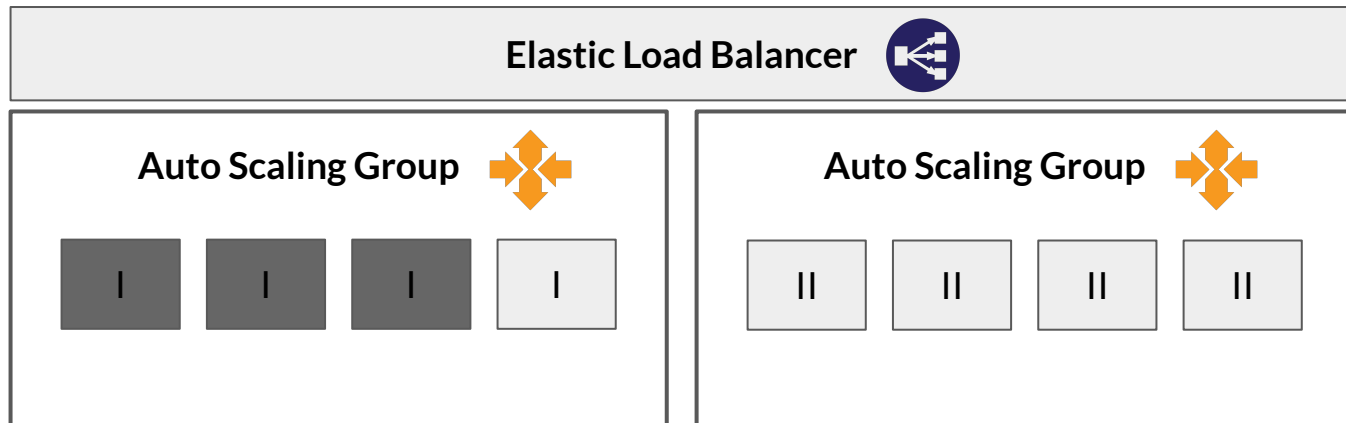
Blue Green



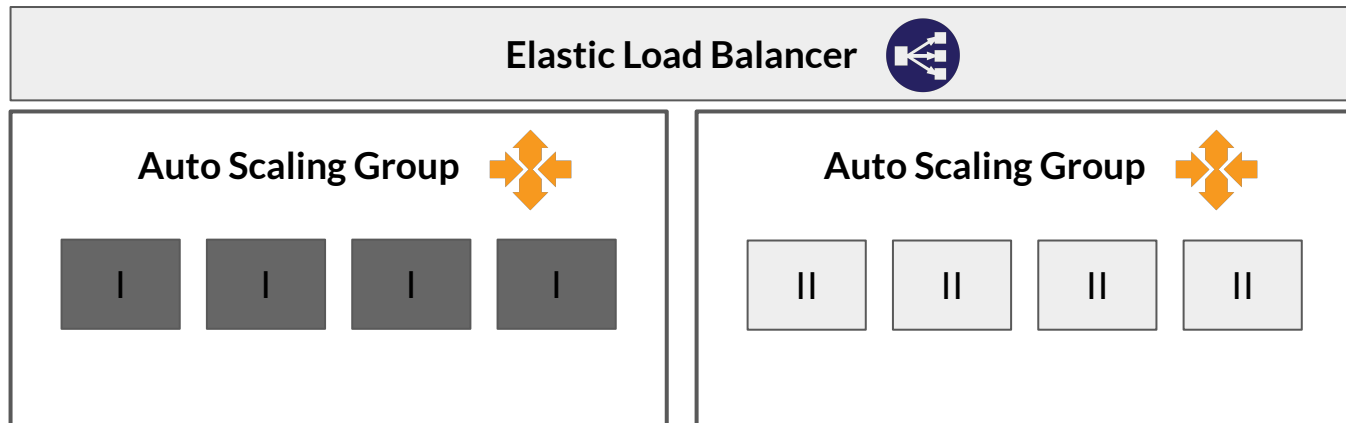
Blue Green



Blue Green



Blue Green



Blue Green

Elastic Load Balancer



Auto Scaling Group






||

||

||

||

Blue Green




Summary

Release

Pipelines

Versions

Deployments 

Ops

Service Map

Infrastructure

Doctor

Logs

Traffic Catalog

Summary

Admin


Endpoints


Consume

Frameworks


Services

Deployment 2696336

Created
31 seconds ago
 frmartin

 production
1.1.1-apply-config11
Version Tag

[CREATE INFRASTRUCTURE](#)

Blue Green 

[Rollback](#)

Steps

✓ Start

> Create Infrastructure IN PROGRESS




Creating instances of new cluster.

Boot Application

Swap Traffic

Effective

Metrics

 DATADOG  New Relic.  Kibana

RESPONSE TIME AVG


No data available.


STATUS 5XX

No data available.

STATUS 400

No data available.

 Feedback



Canary

- Recrea (menos) infraestructura
- Se podría decir un primer paso del Blue Green
- Menor impacto



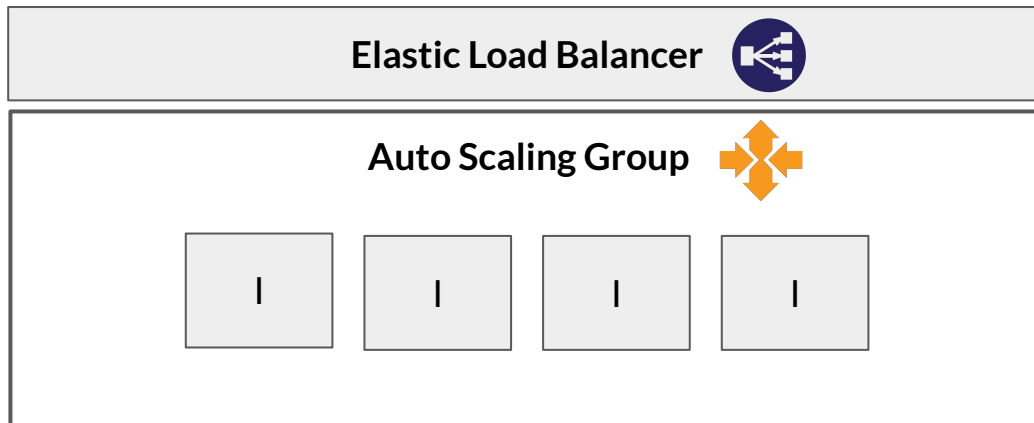
Rolling Update

- Reutiliza infraestructura
- Deploy más rápido
- Rollback lento
- Evita sobrepasar límites al duplicar infra



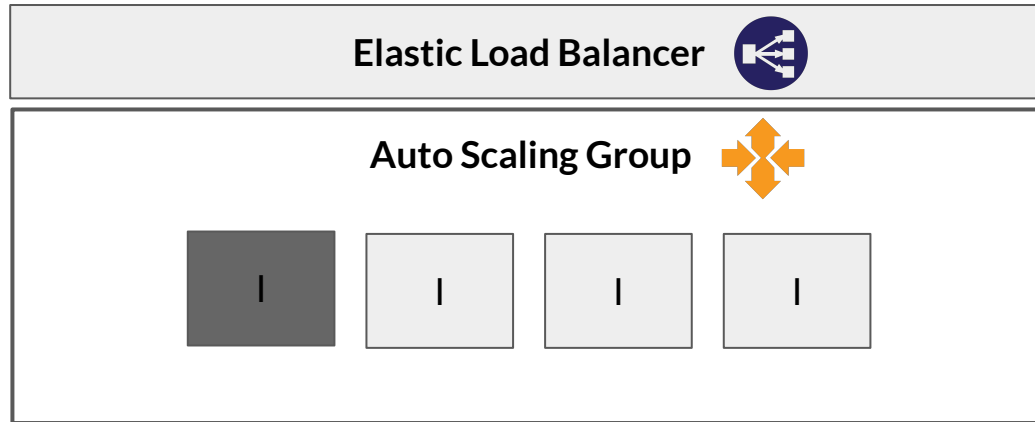


Rolling Update



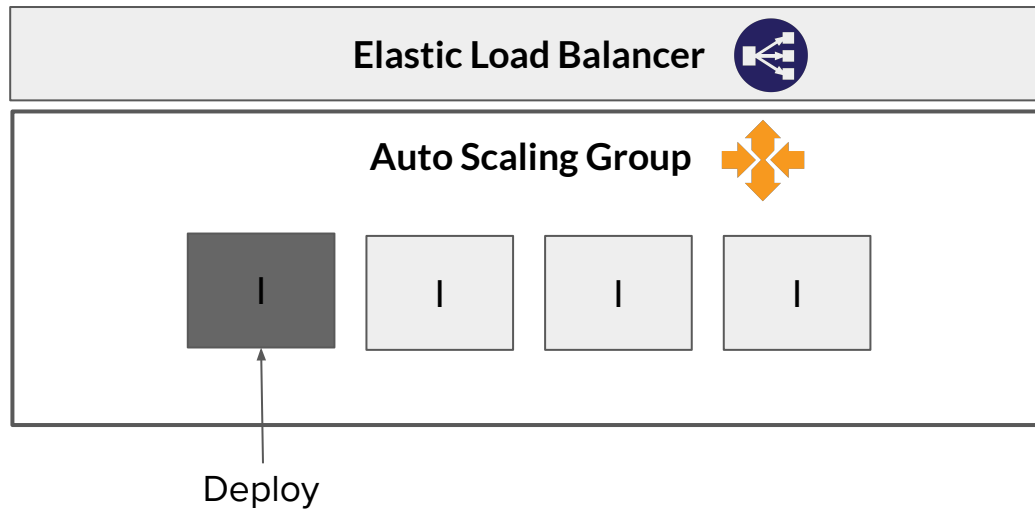


Rolling Update



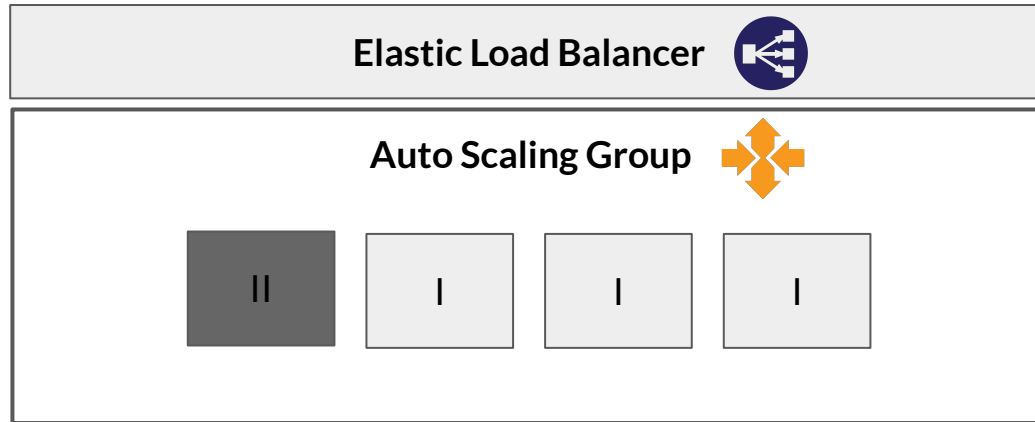


Rolling Update



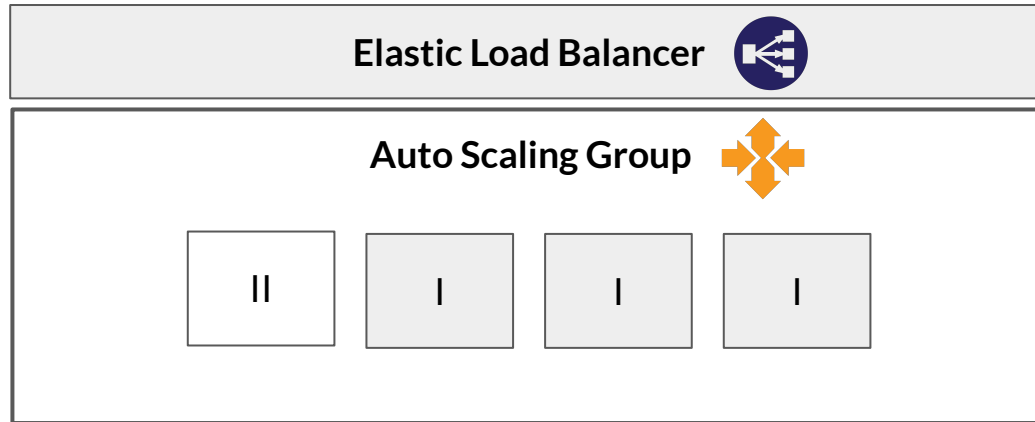


Rolling Update



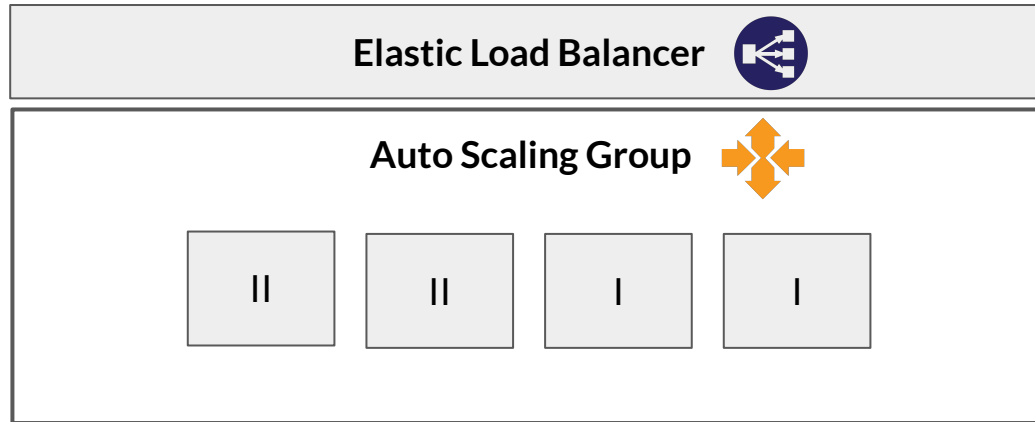


Rolling Update



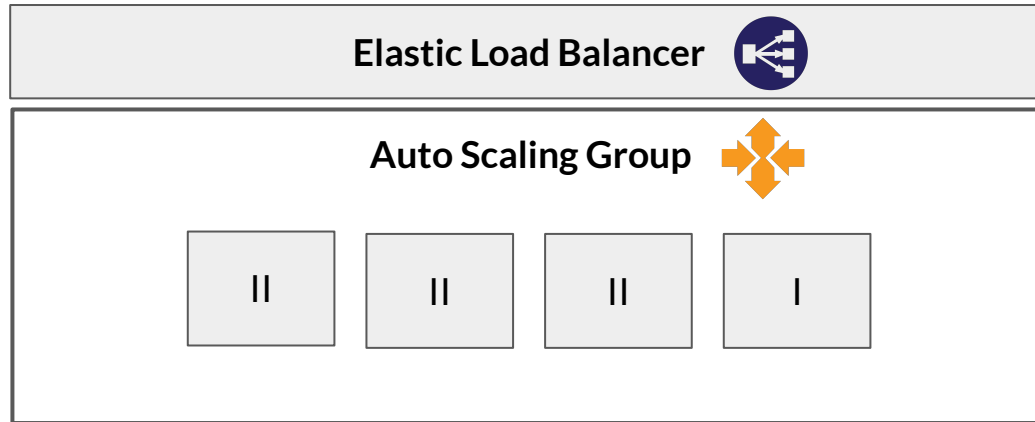


Rolling Update



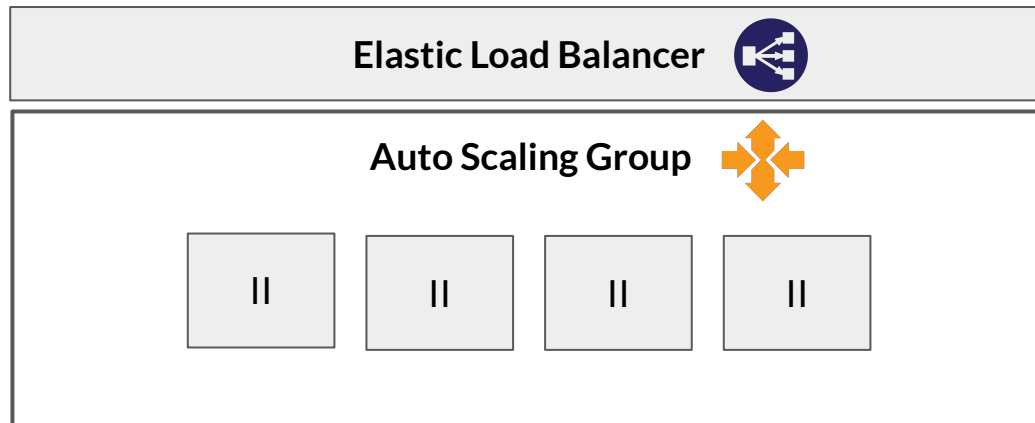


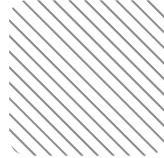
Rolling Update





Rolling Update





Hands On

El objetivo de este ejercicio es que puedas deployar una versión de tu aplicación en Fury. Para esto vamos a seguir los siguientes pasos:

1. Ingresa a Fury.
2. Verifica que tengas instalado el cliente.
3. Crea una nueva versión de tu aplicación.
4. Crea un webservice (scope)
5. Hacé un deploy BG, experimentá con otros tipos de deploy.



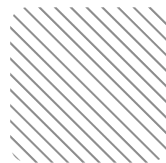
Accesos

[Hands ON]

Para comenzar el ejercicio, lo primero que debemos revisar es que cuentes con los accesos correspondientes:

Checklist de herramientas y accesos (automáticos o a instalar) para poder desarrollar:

- VPN
- Fury Cli instalado. En caso de no tenerlo, seguir [esta guía](#).
- Usuario de AD con permisos de acceso.
Esta solicitud se realiza vía [Shield](#).
- Usuario en Github asociado a la organización.
Si no tenés usuario de Github, necesitás crear uno nuevo para luego solicitar la asociación con MercadoLibre.
Podés consultar la [siguiente guía](#).
- Clave SSH en Github.
Luego de instalar el [cliente de Fury](#), es necesario tener asociada una [SSH key en Github](#).





Gracias.

IT BOARDING

BOOTCAMP

