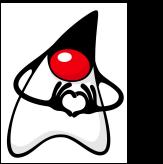


# CI/CD con Jenkins y ArgoCD

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# GitOps

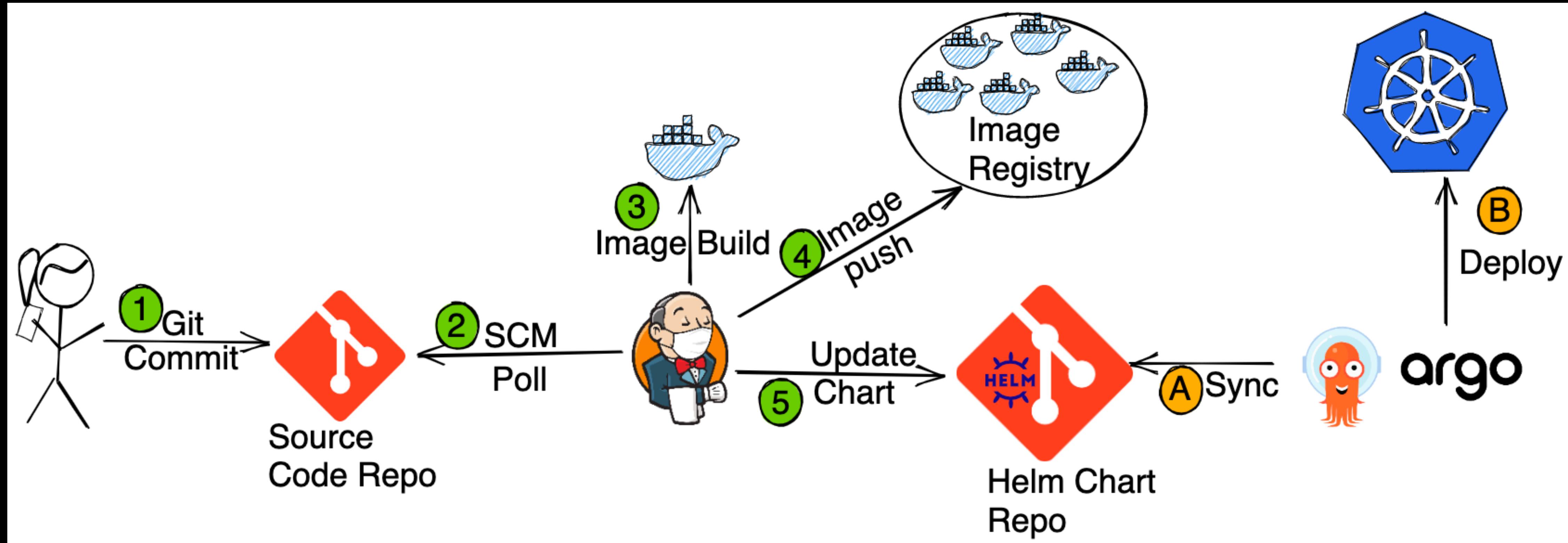
- Su nombre revela que nos gustaría administrar nuestras operaciones como implementación de aplicaciones, administración, escalamiento, etc. vía **Git**.
- Podemos commitear a Git y nuestra aplicación/infraestructura es instalada o actualizada.
- Hay muchas herramientas que soportan esto cómo: ArgoCD, Flux, entre otras. Veremos sólo **ArgoCD**.
- Las herramientas GitOps nos dan las siguientes características:
  - Declarativo
  - Observabilidad
  - Auditoría y compliance
  - Rollback

# ArgoCD

<https://argoproj.github.io/cd/>

- Es uno de los proyectos bajo ArgoProj, el cual tiene otros proyecto como Argo Workflows, Argo Rollouts y Argo Events.

# GitOps Workflow



# Desplegando una aplicación con ArgoCD



# Minikube

<https://minikube.sigs.k8s.io/docs/start/>

- curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-darwin-amd64
- sudo install minikube-darwin-amd64 /usr/local/bin/minikube

# minikube start --memory 8GB --cpus=4

```
Last login: Sun Feb 26 20:10:23 on ttys000
> minikube start --memory 8GB --cpus=4
😄 minikube v1.29.0 on Darwin 13.2.1
:+ Automatically selected the docker driver. Other choices: hyperkit, qemu2, virtualbox, ssh
📌 Using Docker Desktop driver with root privileges
👍 Starting control plane node minikube in cluster minikube
📦 Pulling base image ...
💻 Downloading Kubernetes v1.26.1 preload ...
> preloaded-images-k8s-v18-v1...: 397.05 MiB / 397.05 MiB 100.00% 6.24 Mi
🔥 Creating docker container (CPUs=4, Memory=8192MB) ...
🐳 Preparing Kubernetes v1.26.1 on Docker 20.10.23 ...
    └ Generating certificates and keys ...
    └ Booting up control plane ...
    └ Configuring RBAC rules ...
🔗 Configuring bridge CNI (Container Networking Interface) ...
    └ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🔍 Verifying Kubernetes components...
⭐ Enabled addons: storage-provisioner, default-storageclass

❗ /Users/josediaz/bin/kubectl is version 1.23.7-eks-4721010, which may have incompatibilities with Kubernetes 1.26.1.
    └ Want kubectl v1.26.1? Try 'minikube kubectl -- get pods -A'
⚡ Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
~ > █ 1m 43s 20:16:28
```

# Instalar ArgoCD

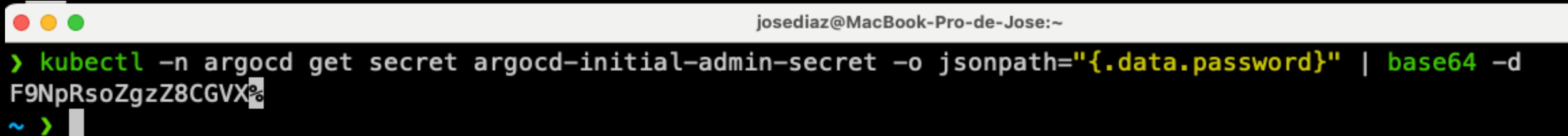
- kubectl create ns argocd
- kubectl apply -n argocd -f <https://raw.githubusercontent.com/argoproj/argo-cd/stable/manifests/install.yaml>
- kubectl get pods -n argocd

# kubectl get pods -n argocd

```
josediaz@MacBook-Pro-de-Jose:~ % kubectl get pods -n argocd
configmap/argocd-ssh-known-hosts-cm created
configmap/argocd-tls-certs-cm created
secret/argocd-notifications-secret created
secret/argocd-secret created
service/argocd-applicationset-controller created
service/argocd-dex-server created
service/argocd-metrics created
service/argocd-notifications-controller-metrics created
service/argocd-redis created
service/argocd-repo-server created
service/argocd-server created
service/argocd-server-metrics created
deployment.apps/argocd-applicationset-controller created
deployment.apps/argocd-dex-server created
deployment.apps/argocd-notifications-controller created
deployment.apps/argocd-redis created
deployment.apps/argocd-repo-server created
deployment.apps/argocd-server created
statefulset.apps/argocd-application-controller created
networkpolicy.networking.k8s.io/argocd-application-controller-network-policy created
networkpolicy.networking.k8s.io/argocd-applicationset-controller-network-policy created
networkpolicy.networking.k8s.io/argocd-dex-server-network-policy created
networkpolicy.networking.k8s.io/argocd-notifications-controller-network-policy created
networkpolicy.networking.k8s.io/argocd-redis-network-policy created
networkpolicy.networking.k8s.io/argocd-repo-server-network-policy created
networkpolicy.networking.k8s.io/argocd-server-network-policy created
> kubectl get pods -n argocd
NAME                               READY   STATUS    RESTARTS   AGE
argocd-application-controller-0     1/1     Running   0          89s
argocd-applicationset-controller-9c64fc489-767w9 1/1     Running   0          89s
argocd-dex-server-5845b5c459-lprl4   1/1     Running   0          89s
argocd-notifications-controller-5c967844dc-kwgkk 1/1     Running   0          89s
argocd-redis-7b59bfff-5jbd8       1/1     Running   0          89s
argocd-repo-server-79566f874-p8wtd 1/1     Running   0          89s
argocd-server-5d5d5d9bbb-gfmvk    1/1     Running   0          89s
~ > % 20:27:15
```

# Instalar ArgoCD

- Una vez que los pods están Running, podemos acceder a la UI con el usuario **admin**, pero, hay que ejecutar este comando para obtener el password:
- `kubectl -n argocd get secret argocd-initial-admin-secret -o jsonpath=".data.password" | base64 -d`



```
josediaz@MacBook-Pro-de-Jose:~
> kubectl -n argocd get secret argocd-initial-admin-secret -o jsonpath=".data.password" | base64 -d
F9NpRsoZgzz8CGVX%
```

# Instalar ArgoCD

- Para acceder a la UI de ArgoCD ejecuta este comando:
- `kubectl port-forward svc/argocd-server -n argocd 8080:443`

```
> kubectl port-forward svc/argocd-server -n argocd 8080:443
Forwarding from 127.0.0.1:8080 -> 8080
Forwarding from [::1]:8080 -> 8080
```

Applications Tiles - Argo CD

Not Secure | https://localhost:8080/login?return\_url=https%3A%2F%2Flocalhost%3A8080%2Fapplications

argohub

Username  
admin

Password  
.....

SIGN IN

Let's get stuff deployed!

The image shows a web browser window for the Argo CD application. The title bar says "Applications Tiles - Argo CD". The address bar shows a warning: "Not Secure | https://localhost:8080/login?return\_url=https%3A%2F%2Flocalhost%3A8080%2Fapplications". The main content area has a dark blue background with a white star pattern. In the center is a large, friendly-looking orange cartoon octopus with big white eyes and a wide smile, standing on top of a large grey gear. To the right of the octopus is a login form with the "argohub" logo at the top. The form includes fields for "Username" (set to "admin") and "Password" (represented by a series of dots). A "SIGN IN" button is located below the password field. At the bottom left of the main area, the text "Let's get stuff deployed!" is displayed. The bottom right corner of the main area has the word "argo" in a smaller font.

Applications Tiles - Argo CD

Not Secure | https://localhost:8080/applications

Argo CD v2.6.0+acc554f

APPLICATIONS TILES

Log out

Applications

+ NEW APP   SYNC APPS   REFRESH APPS   Search applications...   /  

No applications available to you just yet

Create new application to start managing resources in your cluster

CREATE APPLICATION

Applications

Settings

User Info

Documentation

←



# Crear namespace app

- kubectl create ns app

```
Last login: Sun Feb 26 20:13:21 on ttys000
> kubectl create ns app
namespace/app created
~ > █
```

# Pasos para crear una aplicación

- Forkear proyecto: <https://github.com/joedayz/rsvpapp-helm-cicd>
- Login a ArgoCD
- Clic en new app y actualizar con lo siguiente
- Dar como nombre de aplicación: rsvapp
- Seleccionar el proyecto. Por ahora escoger el nombre default, el cual es automáticamente presentado después de la instalación de ArgoCD
- Establecer SyncPolicy Automatic.
- Habilitar la opción Prune Resources
- Habilitar SELF HEAL

[CREATE](#)[CANCEL](#)

X

## GENERAL

[EDIT AS YAML](#)

Application Name

rsvpapp

Project Name

default

## SYNC POLICY

Automatic

▼

- PRUNE RESOURCES ⓘ
- SELF HEAL ⓘ

 SET DELETION FINALIZER ⓘ

## SYNC OPTIONS

- SKIP SCHEMA VALIDATION
- PRUNE LAST
- RESPECT IGNORE DIFFERENCES

- AUTO-CREATE NAMESPACE
- APPLY OUT OF SYNC ONLY
- SERVER-SIDE APPLY

PRUNE PROPAGATION POLICY: foreground

▼

- REPLACE ⚠
- RETRY

# Pasos para crear una aplicación

- Definir el repositorio del URL con la demo que se ha forkeado <https://github.com/joedayz/rsvapp-helm-cicd.git>
- Establecer revision **HEAD**
- El path es la ubicación del archivo de configuración. Escoger **.**
- Destination: Es el cluster donde se va a desplegar la aplicación.
- Selecciona el Cluster: <https://kubernetes.default.svc>.
- Selecciona el namespace: **app**
- Clic en **create**.

## SOURCE

Repository URL

<https://github.com/joedayz/rsvpapp-helm-cicd.git>

GIT ▾

Revision

HEAD

Branches ▾



Path

.

## DESTINATION

Cluster URL

<https://kubernetes.default.svc>

URL ▾

Namespace

app



rsvpapp



Project: default

Labels:

Status: ❤️ Healthy ✓ Synced

Repository: <https://github.com/joedayz/rsvpapp-helm-cicd.git>

Target Revi... HEAD

Path: -

Destination: in-cluster

Namespace: app

Created At: 02/26/2023 21:31:28 (a minute ago)

SYNC

REFRESH

DELETE

kubectl get pods,svc -n app

---

› kubectl get pods,svc -n app

NAME	READY	STATUS	RESTARTS	AGE
pod/rsvpapp-7456cb95f6-6lctz	1/1	Running	0	108s
pod/rsvpapp-7456cb95f6-cttr2	1/1	Running	0	108s
pod/rsvpapp-7456cb95f6-zd8cp	1/1	Running	0	108s
pod/rsvpapp-mongodb-546778fdb8-wnt7c	1/1	Running	0	108s

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
service/rsvpapp	ClusterIP	10.108.65.29	<none>	80/TCP	108s
service/rsvpapp-mongodb	ClusterIP	10.108.47.98	<none>	27017/TCP	108s

~ › █

[APP DETAILS](#) [APP DIFF](#) [SYNC](#) [SYNC STATUS](#) [HISTORY AND ROLLBACK](#) [DELETE](#) [REFRESH](#)    [Log out](#)APP HEALTH **Healthy**CURRENT SYNC STATUS **Synced**

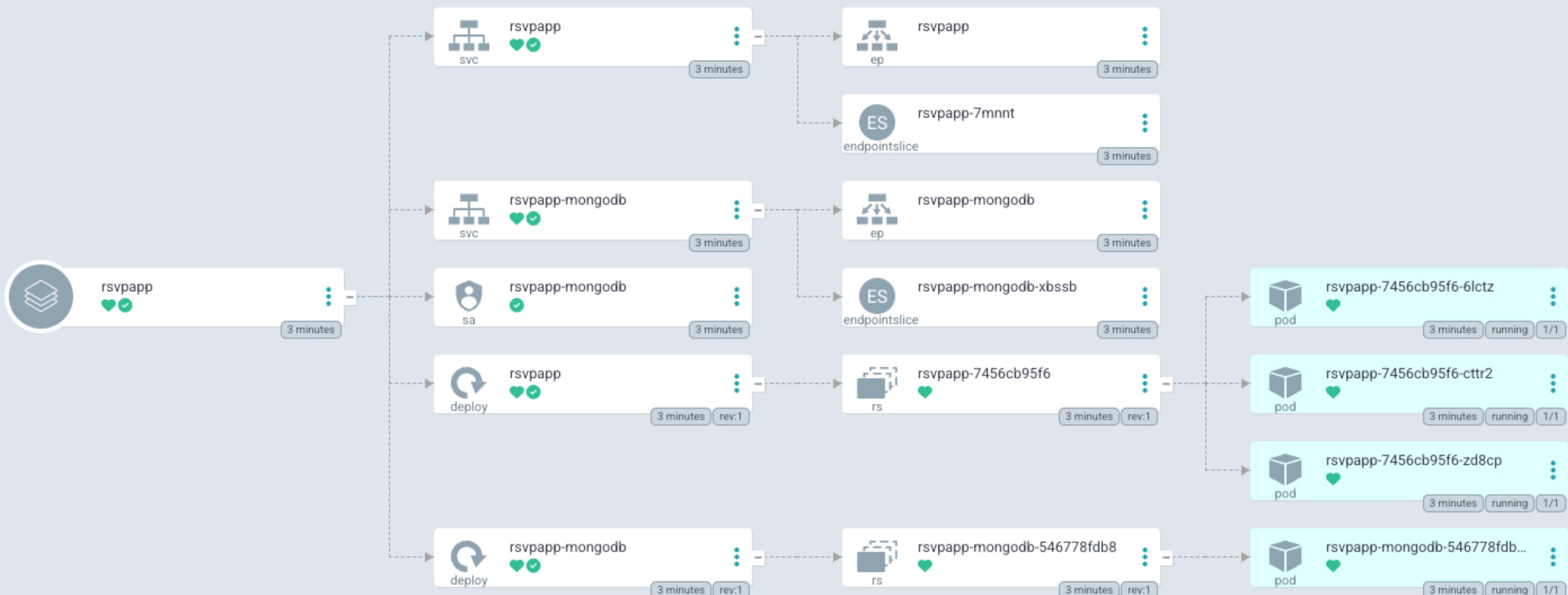
To HEAD (9c23383)

Author: Neependra Khare <neependra.khare@gmail.com> -  
Comment: Update Chart.yaml  
Auto sync is enabled.LAST SYNC RESULT **Sync OK**

To 9c23383

Succeeded 3 minutes ago (Sun Feb 26 2023 21:31:30 GMT-0500)  
Author: Neependra Khare <neependra.khare@gmail.com> -  
Comment: Update Chart.yaml

100%



# Instalar add-on ingress

- **minikube addons enable ingress**

```
> minikube addons enable ingress
💡 ingress is an addon maintained by Kubernetes. For any concerns contact minikube on GitHub.
You can view the list of minikube maintainers at: https://github.com/kubernetes/minikube/blob/master/OWNERS
💡 After the addon is enabled, please run "minikube tunnel" and your ingress resources would be available at "127.0.0.1"
  ■ Using image registry.k8s.io/ingress-nginx/controller:v1.5.1
  ■ Using image registry.k8s.io/ingress-nginx/kube-webhook-certgen:v20220916-gd32f8c343
  ■ Using image registry.k8s.io/ingress-nginx/kube-webhook-certgen:v20220916-gd32f8c343
🔍 Verifying ingress addon...
🌟 The 'ingress' addon is enabled
```

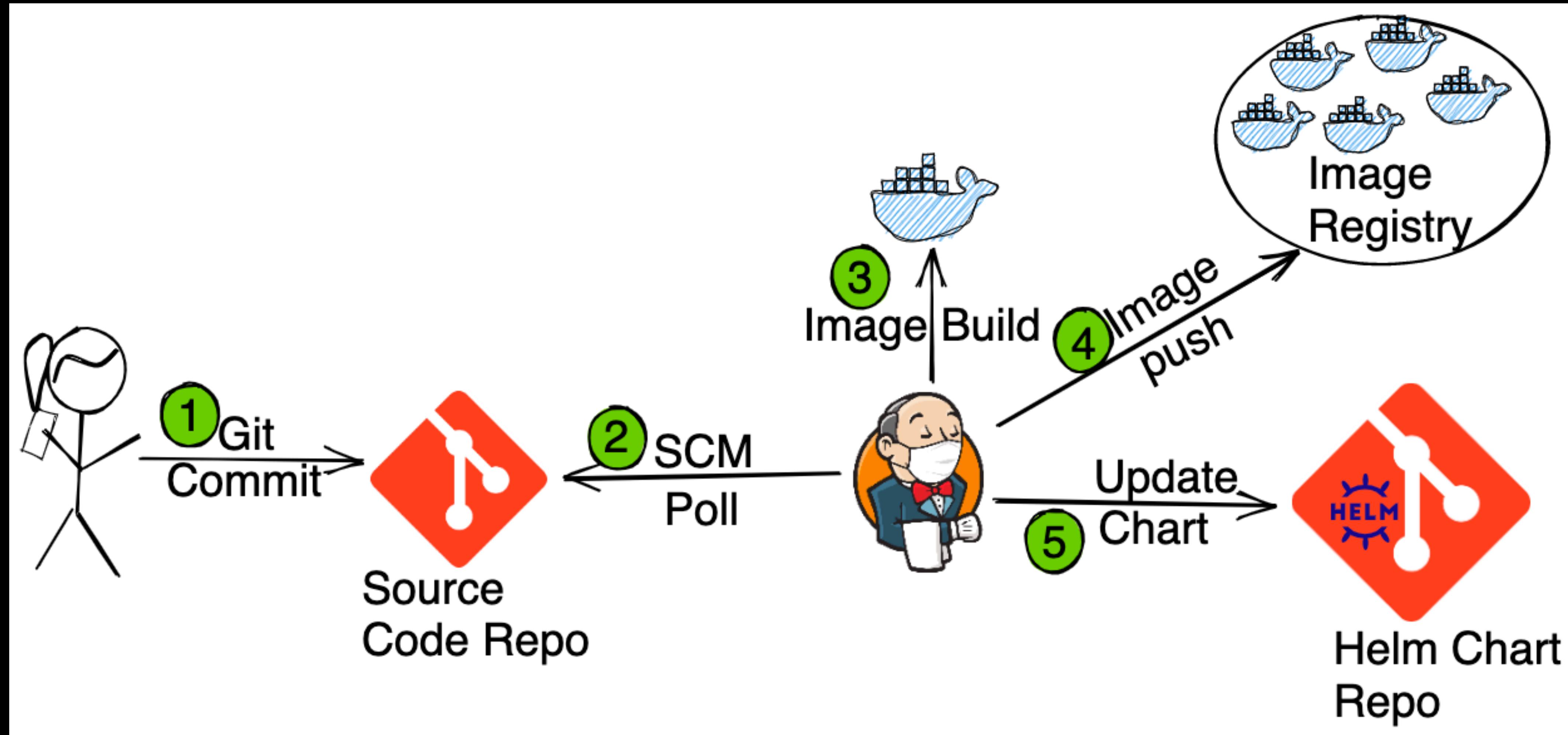
```
> kubectl get pods -n ingress-nginx
NAME                           READY   STATUS    RESTARTS   AGE
ingress-nginx-admission-create-lg5q8   0/1     Completed  0          73s
ingress-nginx-admission-patch-tjl8d    0/1     Completed  0          73s
ingress-nginx-controller-77669ff58-m4llv 1/1     Running   0          73s
```

# Crear el ingress para nuestro deployment

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: rsvp-ingress
spec:
  rules:
  - http:
    paths:
    - path: /
      pathType: Prefix
    backend:
      service:
        name: rsvpapp
        port:
          number: 80
```

```
> vi rsvp-ingress.yaml
> kubectl apply -f rsvp-ingress.yaml -n app
ingress.networking.k8s.io/rsvp-ingress created
~/Downloads > █
```

# Configurar CI con Jenkins



# Instalar jenkins

## Jenkins-install.sh

```
FROM nginx:1.11-alpine ● | rsvp-ingress.yaml ✘ jenkins-install.sh ● | argo-install.yaml ✘

curl -fsSL -o get_helm.sh https://raw.githubusercontent.com/helm/helm/master/scripts/get-helm-3
chmod 700 get_helm.sh
./get_helm.sh
sleep 3
echo "installed helm"

helm repo add jenkins https://charts.jenkins.io

kubectl create ns jenkins

helm install jenkins \
--set controller.serviceType=NodePort,controller.image=teamcloudyuga/cyjenkins,controller.tag=2.289,controller.installPlugins=false,controller.nodePort=31000,persistence.enabled=false \
--namespace=jenkins \
jenkins/jenkins
echo "installed jenkins with helm "
```

# Instalar jenkins

## Jenkins-install.sh

```
> chmod +x jenkins-install.sh
> sh jenkins-install.sh
Helm v3.11.1 is already latest
installed helm
"jenkins" already exists with the same configuration, skipping
namespace/jenkins created
NAME: jenkins
LAST DEPLOYED: Sun Feb 26 21:42:09 2023
NAMESPACE: jenkins
STATUS: deployed
REVISION: 1
NOTES:
1. Get your 'admin' user password by running:
   kubectl exec --namespace jenkins -it svc/jenkins -c jenkins -- /bin/cat /run/secrets/additional/cha
rt-admin-password && echo
2. Get the Jenkins URL to visit by running these commands in the same shell:
   export NODE_PORT=$(kubectl get --namespace jenkins -o jsonpath=".spec.ports[0].nodePort" services
jenkins)
   export NODE_IP=$(kubectl get nodes --namespace jenkins -o jsonpath=".items[0].status.addresses[0].
address")
   echo http://$NODE_IP:$NODE_PORT

3. Login with the password from step 1 and the username: admin
4. Configure security realm and authorization strategy
5. Use Jenkins Configuration as Code by specifying configScripts in your values.yaml file, see docume
ntation: http://$NODE_IP:$NODE_PORT/configuration-as-code and examples: https://github.com/jenkinsci/
configuration-as-code-plugin/tree/master/demos

For more information on running Jenkins on Kubernetes, visit:
https://cloud.google.com/solutions/jenkins-on-container-engine

For more information about Jenkins Configuration as Code, visit:
https://jenkins.io/projects/jcasc/

#####
##### WARNING: Persistence is disabled!!! You will lose your data when #####
#####           the Jenkins pod is terminated. #####
#####
installed jenkins with helm
~/Downloads > |
```

# Instalar jenkins

kubectl get pods -n jenkins

```
› kubectl get pods -n jenkins
NAME        READY   STATUS    RESTARTS   AGE
jenkins-0   2/2     Running   0          117s
~/Downloads › █
```

# Instalar jenkins

## Obtener el password del admin

- kubectl exec --namespace jenkins -it svc/jenkins -c jenkins -- /bin/cat /run/secrets/additional/chart-admin-password && echo

---

```
> kubectl exec --namespace jenkins -it svc/jenkins -c jenkins -- /bin/cat /run/secrets/additional/chart-admin-password && echo
```

```
OLMfcKjiug4I1esGbaJwQX  
~/Downloads > █
```

21:47:13

# Instalar jenkins

## Lanzar la UI de Jenkins

- minikube service jenkins -n jenkins

```
> minikube service jenkins -n jenkins
|-----|-----|-----|-----|
| NAMESPACE | NAME | TARGET PORT | URL |
|-----|-----|-----|-----|
| jenkins | jenkins | http/8080 | http://192.168.49.2:31000 |
|-----|-----|-----|-----|
🏃 Starting tunnel for service jenkins.
|-----|-----|-----|-----|
| NAMESPACE | NAME | TARGET PORT | URL |
|-----|-----|-----|-----|
| jenkins | jenkins | | http://127.0.0.1:61571 |
|-----|-----|-----|-----|
🎉 Opening service jenkins/jenkins in default browser...
❗ Because you are using a Docker driver on darwin, the terminal needs to be open to run it.
```

Sign in [Jenkins] X

127.0.0.1:61571/login?from=%2F ★



Welcome to Jenkins!

Username

Password

**Sign in**

Keep me signed in

Dashboard [Jenkins] X

127.0.0.1:61571

search ? 2 2 Jenkins Admin log out

# Jenkins

Dashboard

- New Item
- People
- Build History
- Manage Jenkins
- My Views
- New View

**Welcome to Jenkins!**

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

**Start building your software project**

Create a job →

**Build Queue** ^  
No builds in the queue.

**Build Executor Status** ^

REST API Jenkins 2.289.1

# Plugins recomendados

[Ant Plugin](#) 481.v7b\_09e538fcca

Adds Apache Ant support to Jenkins

[Report an issue with this plugin](#)



475.vf...



[Basic Branch Build Strategies Plugin](#) 71.vc1421f89888e

This plugin provides some basic branch build strategies for use with Branch API based projects.

[Report an issue with this plugin](#)



1.3.2



[Bootstrap 4 API Plugin](#) 4.6.0-5

Provides Bootstrap 4 for Jenkins plugins.

[Report an issue with this plugin](#)



4.6.0-3



[Build Monitor View](#) 1.13+build.202205140447

Provides a highly visible view of the status of selected Jenkins jobs. It easily accommodates different computer screen sizes and is ideal as an Extreme Feedback Device to be displayed on a screen on your office wall.



1.13+b...



[Build Timeout](#) 1.28

This plugin allows you to automatically terminate a build if it's taking too long.

[Report an issue with this plugin](#)



1.26



[Command Agent Launcher Plugin](#) 90.v669d7ccb\_7c31

Allows agents to be launched using a specified command.

[Report an issue with this plugin](#)



84.v4...



[Defensics](#) 2022.12.0

Synopsys Defensics plugin for fuzz testing.

[Report an issue with this plugin](#)



2021....



[Defensics](#) 2022.12.0

Synopsys Defensics plugin for fuzz testing.

[Report an issue with this plugin](#)



2021....



Docker Pipeline 563.vd5d2e5c4007f  
Build and use Docker containers from pipelines.  
[Report an issue with this plugin](#)



Email Extension Plugin 2.94

This plugin is a replacement for Jenkins's email publisher. It allows to configure every aspect of email notifications: when an email is sent, who should receive it and what the email says  
[Report an issue with this plugin](#)



Embeddable Build Status Plugin 339.v1edb\_5e63da\_45

This plugin adds the embeddable build status badge to Jenkins so that you can easily hyperlink/show your build status from elsewhere.  
[Report an issue with this plugin](#)



External Monitor Job Type Plugin 203.v683c09d993b\_9

Adds the ability to monitor the result of externally executed jobs  
[Report an issue with this plugin](#)



GitHub Branch Source Plugin 1701.v00cc8184df93

Multibranch projects and organization folders from GitHub. Maintained by CloudBees, Inc.  
[Report an issue with this plugin](#)



GitHub Integration Plugin 0.5.0

GitHub Integration Plugin for Jenkins



Gradle Plugin 2.3

This plugin allows Jenkins to invoke [Gradle](#) build scripts directly.  
[Report an issue with this plugin](#)



[Icon Shim](#) 3.0.0

Deprecated: No longer does anything, you can uninstall this plugin



2.0.3



[JavaMail API](#) 1.6.2-9

This plugin provides the [JavaMail](#) API for other plugins.

[Report an issue with this plugin](#)



1.6.2-8



[JavaScript GUI Lib: ACE Editor bundle plugin](#) 1.1

JavaScript GUI Lib: ACE Editor bundle plugin.

[Report an issue with this plugin](#)

This plugin is deprecated. In general, this means that it is either obsolete, no longer being developed, or may no longer work.

[Learn more.](#)



[JavaScript GUI Lib: Handlebars bundle plugin](#) 3.0.8

JavaScript GUI Lib: Handlebars bundle plugin.

[Report an issue with this plugin](#)

This plugin is deprecated. In general, this means that it is either obsolete, no longer being developed, or may no longer work.

[Learn more.](#)



1.1.1



[JavaScript GUI Lib: jQuery bundles \(jQuery and jQuery UI\) plugin](#) 1.2.1

JavaScript GUI Lib: jQuery bundles (jQuery and jQuery UI) plugin.

[Report an issue with this plugin](#)

This plugin is deprecated. In general, this means that it is either obsolete, no longer being developed, or may no longer work.

[Learn more.](#)



[JavaScript GUI Lib: Moment.js bundle plugin](#) 1.1.1

JavaScript GUI Lib: Moment.js bundle plugin.

[Report an issue with this plugin](#)

This plugin is deprecated. In general, this means that it is either obsolete, no longer being developed, or may no longer work.

[Learn more.](#)



jnr-posix API Plugin 3.1.16-2

This plugin provides [jnr-posix](#) API for other plugins.

[Report an issue with this plugin](#)



3.1.16-1



LDAP Plugin 659.v8ca\_b\_a\_fe79fa\_d

Adds LDAP authentication to Jenkins

[Report an issue with this plugin](#)



2.12



Lockable Resources plugin 1123.v4002ee23c671

This plugin allows to define external resources (such as printers, phones, computers) that can be locked by builds. If a build requires an external resource which is already locked, it will wait for the resource to be free.

[Report an issue with this plugin](#)



1102.v...



Matrix Authorization Strategy Plugin 3.1.6

Offers matrix-based security authorization strategies (global and per-project).

[Report an issue with this plugin](#)



3.1.5



Maven Release Plug-in Plug-in 0.16.3

A plug-in that enables you to perform releases using the [maven-release-plugin](#) from Jenkins.

[Report an issue with this plugin](#)



0.16.2



NodeJS Plugin 1.6.0

NodeJS Plugin executes [NodeJS](#) script as a build step.

[Report an issue with this plugin](#)



1.5.1



Oracle Java SE Development Kit Installer Plugin 63.v62d2fd4b\_4793

Allows the Oracle Java SE Development Kit (JDK) to be installed via download from Oracle's website.

[Report an issue with this plugin](#)



55.v1b...



[PAM Authentication plugin](#) 1.10

Adds Unix Pluggable Authentication Module (PAM) support to Jenkins  
[Report an issue with this plugin](#)



1.8



[Pipeline](#) 590.v6a\_d052e5a\_a\_b\_5

A suite of plugins that lets you orchestrate automation, simple or complex. See [Pipeline as Code with Jenkins](#) for more details.  
[Report an issue with this plugin](#)



581.v...



[Pipeline: Deprecated Groovy Libraries](#) 609.vd95673f149b\_b

Hosting of Pipeline Groovy libraries inside a Jenkins Git server. **Deprecated.** Use [Pipeline: Groovy Libraries](#) instead. If you see this plugin installed just because you upgraded, you can probably uninstall it now. This plugin should only be used if you have historically *pushed* libraries to a Git server inside Jenkins.

[Report an issue with this plugin](#)



588.v...



[Pipeline: GitHub Groovy Libraries](#) 38.v445716ea\_edda\_

Allows Pipeline Groovy libraries to be loaded on the fly from GitHub.  
[Report an issue with this plugin](#)



36.v4...



[Pipeline: Stage View Plugin](#) 2.31

Pipeline Stage View Plugin.  
[Report an issue with this plugin](#)



2.28



[Post build task](#) 1.9

Allows to execute a batch/shell task depending on the build log output.  
[Report an issue with this plugin](#)



1.8



[Publish Over SSH](#) 1.24

Send build artifacts over SSH  
[Report an issue with this plugin](#)



1.22



[Release Plugin](#) 2.15

This plugin allows you to configure pre and post build actions that are executed when a release build is manually triggered.  
[Report an issue with this plugin](#)



2.14



[Slack Notification Plugin](#) 631.v40deea\_40323b

Integrates Jenkins with Slack, allows publishing build statuses, messages and files to Slack channels.

[Report an issue with this plugin](#)



629.vf...



[SSH Build Agents plugin](#) 2.854.v7fd446b\_337c9

Allows to launch agents over SSH, using a Java implementation of the SSH protocol.

[Report an issue with this plugin](#)



2.846....



[Status Monitor Plugin](#) 1.3

This plugin shows all specified jobs on a single screen overview, that could be used to present the state of hudson to a teams visually.

[Report an issue with this plugin](#)



[Subversion Plug-in](#) 2.17.1

This plugin adds Apache Subversion support (via SVNKit) to Jenkins.

[Report an issue with this plugin](#)



2.17.0



[Timestamper](#) 1.22

Adds timestamps to the Console Output

[Report an issue with this plugin](#)



1.21



[WMI Windows Agents Plugin](#) 1.8.1

Allows you to setup agents on Windows machines over Windows Management Instrumentation (WMI)

[Report an issue with this plugin](#)



1.8



[Workspace Cleanup Plugin](#) 0.44

This plugin deletes the project workspace when invoked.

[Report an issue with this plugin](#)



0.43



# Configurando credenciales

## Dockerhub

- Configure your GitHub credentials in Jenkins Dashboard --> Manage Jenkins --> Security --> Manage Credentials --> Global Credentials --> **Add Credentials**
- Scope: **Global**
- Username: **DOCKERHUB-USERNAME**
- Password: **DOCKERHUB-PASSWORD**
- id : dockerhub
- Description: NA

# Configurando credenciales

## Github

- Configure your GitHub credentials in Jenkins Dashboard --> Manage Jenkins --> Security --> Manage Credentials --> Global Credentials -> Add Credentials Create Github credentials
- Scope: Global
- Username: GITHUB-USERNAME
- Password: github's personal access token
- id : github
- Description:

# Forkear el RSVPapp repo

## Agregar el Jenkisfile

- Forkear <https://github.com/joedayz/rsvpapp.git>
- Agrega el **Jenkisfile**
- Cambia la siguiente información:
  - IMAGE\_REPO = "joedayz/rsvpapp" (Coloca el tuyo)
  - HELM\_GIT\_REPO\_URL = "https://github.com/joedayz/rsvpapp.git" (Coloca el tuyo)
  - GIT\_REPO\_EMAIL = 'jose.diaz@joedayz.pe' (Usa tu email)
- El Jenkisfile consiste de 2 pasos:
  - Build: Este stage construye la nueva imagen, después, del commit.
  - Deploy: Este stage actualiza el nombre de la imagen y tag en el repositorio Helm.

# Configurar tu Jenkins pipeline

- Crear un Pipeline Job y asociar este con tu repositorio de código
  - En el Jenkins dashboard, clic en new item, dale un nombre y selecciona el tipo pipeline, luego, clic ‘ok’.
- Configurar el trigger
  - Selecciona Poll SCM y agrega el schedule como: \*/1\*\*\*
  - Con la configuración anterior sync el código fuente cada 1 minuto.

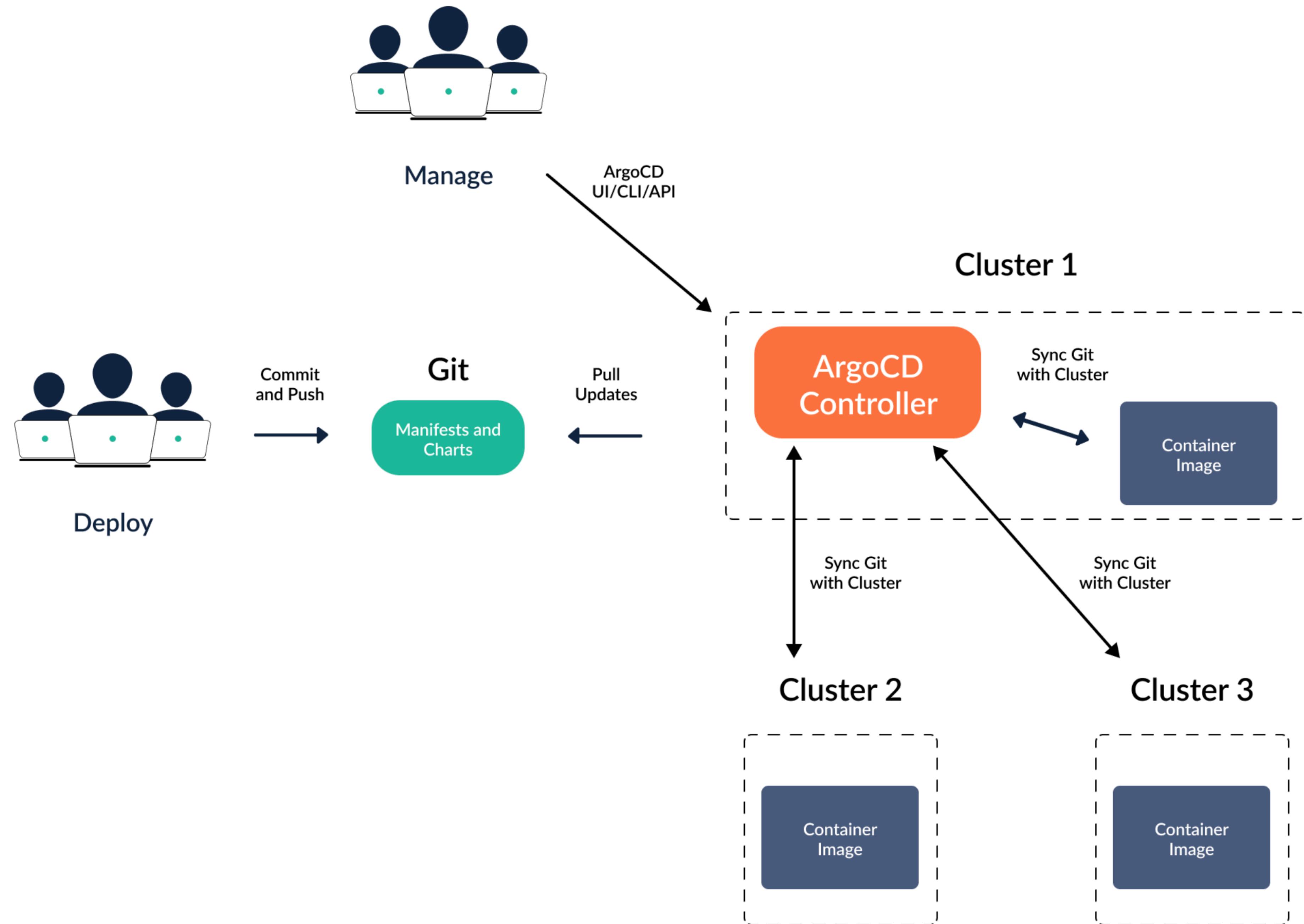
# Configurar tu Jenkins pipeline

- Configuración del Pipeline Trigger:
  - Select definition as **Pipeline script from SCM**
  - Select SCM as **Git**
  - Give your Git Hub Source Repository URL (<https://github.com/<USERNAME>/rsvpapp>)
  - Give script path as **Jenkinsfile**
  - Save and Apply

# Modificando el repositorio de Código fuente

- Hagamos algunos cambios en el frontend y luego verificar si el CI es disparado o no.
- Verifica si el build fue satisfactorio o no
- Verifica si la imagen esta en docker hub
- Verifica los valores en el repositorio helm
- Verifica el Dashboard de ArgoCD - ver si hay una nueva versión
- Accede al Deployment usando la UI
  - Clic en el rsvapp-ingress URL bajo la sección Lab URLs
  - Los nuevos cambios UI deberían reflejarse ahí.

# Resumen



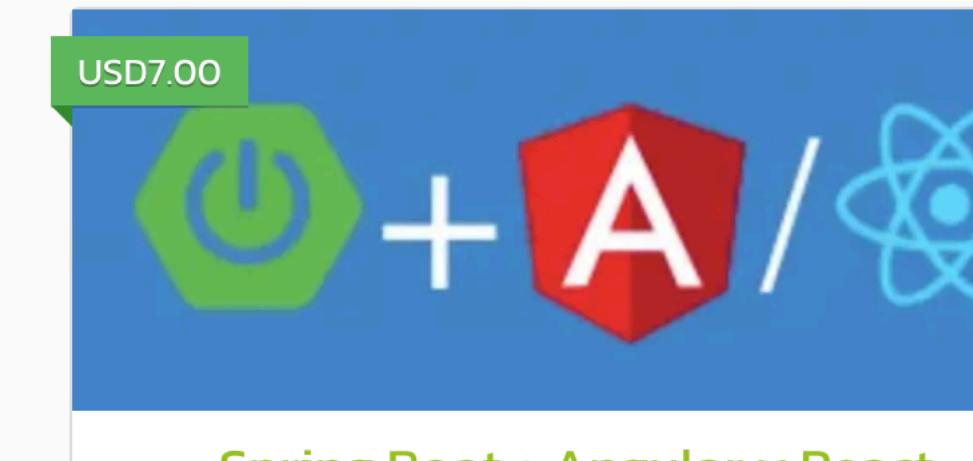
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The screenshot shows the homepage of JoeDayz.pe. At the top, there's a pink header bar with the title "Bienvenido al Home de JoeDayz". Below it is a navigation bar with icons for back, forward, search, and other browser functions. The main content area has a blue and green decorative banner at the top.

**7 de marzo**

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**MICROSERVICIOS CON JAVA**

Desde el 07 de Marzo al 06 de Junio del 2023  
Martes de 9:00 PM a 11:00 PM y Viernes de 9:00 PM a 10:00 PM

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**18 marzo**

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Muchas Gracias.

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