

Argo Workflow

Argo WorkflowArgo Workflow<https://argoproj.github.io/argo-workflows/running-locally/>
Argo Workflowv3.1.5



MacOSbrew<https://brew.sh/>

1Golang

v1.15

2Yarn

```
brew install yarn
```

3Docker

<https://docs.docker.com/docker-for-mac/install/>

4Kustomize

v3.8.8<https://github.com/kubernetes-sigs/kustomize/releases/tag/kustomize%2Fv3.8.8>

\$GOPATH/binargo-workflowdistargo

5Protoc

```
brew install protobuf
```

6Minikube

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

hosts

/etc/hosts

```
127.0.0.1 dex
127.0.0.1 minio
127.0.0.1 postgres
127.0.0.1 mysql
```

1MySQL

mysqlargoworkflowmysqlMySQLargominikubeMySQL

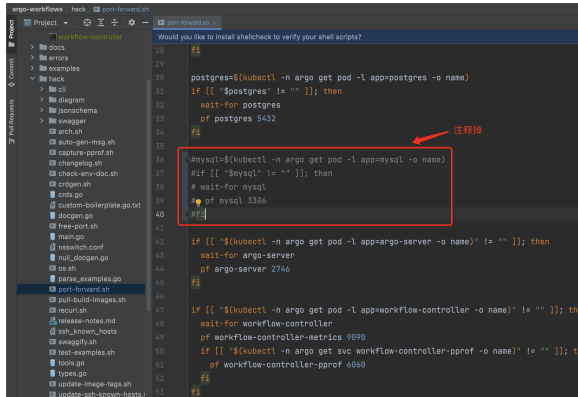
1argomysql

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```
CREATE DATABASE `argo`;
CREATE USER 'mysql'@'%' IDENTIFIED BY 'password';
GRANT ALL ON argo.* TO 'mysql'@'%';
```

2argo-workflows



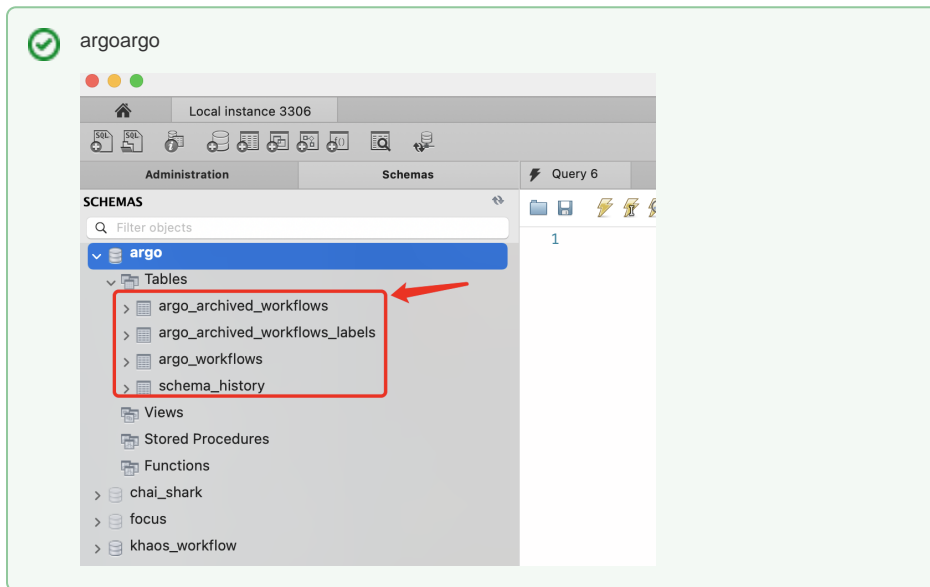
```
argo-workflows - hack -> port-forward.sh
Would you like to install shellcheck to verify your shell scripts?
28 #!
29
30 postgres=$(kubectl -n argo get pod -l app=postgres -o name)
31 if [[ "$postgres" != "" ]]; then
32   wait-for postgres
33   pf postgres 5432
34 #!
35
36 mysql=$(kubectl -n argo get pod -l app=mysql -o name)
37 if [[ "$mysql" != "" ]]; then
38   # wait-for mysql
39   # pf mysql 3306
40 #!
41
42 if [[ "$(kubectl -n argo get pod -l app=argo-server -o name)" != "" ]]; then
43   wait-for argo-server
44   pf argo-server 2746
45 #!
46
47 if [[ "$(kubectl -n argo get pod -l app=workflow-controller -o name)" != "" ]]; then
48   wait-for workflow-controller
49   pf workflow-controller-metrics 9090
50   if [[ "$(kubectl -n argo get svc workflow-controller-pprof -o name)" != "" ]]; then
51     pf workflow-controller-pprof 6060
52 #!
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99 #!
100 #!
```

2&

argo-workflowsargo-workflowsminikubeargo

```
make start PROFILE=mysql
```

mysqlpgsql



1Argo Server API

<http://localhost:2746>

! HTTPS

2Argo UI

<http://localhost:8080>



3MinIO UI

<http://localhost:9000>

admin

password

Image



5

1

workflowargoimage

```
eval $(minikube -p minikube docker-env) && make build
```



```
eval $(minikube -p minikube docker-env) DockerMinikubeDocker
```

2

1checksum mismatch

checksum mismatch

```

Terminal     LocalID   LocalID   +
-----
> CACHED [builder 5/6] COPY go.mod ...
> CACHED [builder 6/6] COPY go.sum ...
> ERROR [builder 7/8] RUN go mod download
-----
> [builder 7/8] RUN go mod download:
#17 86.37 verifyang github.com/fatihhttp/websocket@v1.4.2: checksum mismatch
#17 86.37      downloaded: h1AU/sIIIAuYjBmf0s+V00syG0mErFvZU4GxIhN/3RuM=
#17 86.37      go.sum:      h1hNfL80RQ9r7j4vc4G2C0p+gF5mXN5jKieky2wzr=
#17 86.37
#17 86.37 SECURITY ERROR
#17 86.37 This download does NOT match an earlier download recorded in go.sum.
#17 86.37 The bits may have been replaced on the origin server, or an attacker may
#17 86.37 have intercepted the download attempt.
#17 86.37
#17 86.37 For more information, see 'go help module-auth'.
-----
error: failed to solve: rpc error: code = Unknown desc = executor failed running [/bin/sh -c go mod download]: exit code: 1
make: *** [arguoli-image] Error 1

```

DockerDockerfilego.sum

```
26 /usr/share/doc \
27 /usr/share/doc-base
28
29 WORKDIR /tmp
30
31 # https://github.com/containersolutions/faster-builds-in-docker-with-gcc-11
32 WORKDIR /go/src/github.com/argoproj/argo-workflows
33
34 COPY go.mod .
35
36 ENV CGO_ENABLED=0
37
38 RUN git config --global url."https://private:token@github.com:".insteadOf "https://git.repo.com/"
39
40 WORKDIR go mod download
```

```
2unrecognized import path "golang.org/x/sys": reading https://golang.org/x/sys?go-get=1: 404 Not Found
```