# ┌───────────── minute (0 - 59)

# │ ┌───────────── hour (0 - 23)

# │ │ ┌───────────── day of the month (1 - 31)

# │ │ │ ┌───────────── month (1 - 12)

# │ │ │ │ ┌───────────── day of the week (0 - 6) (Sunday to Saturday)

# │ │ │ │ │

schedule: "\* \* \* \* \*"

cron has schedule

everyday 2 am – 0 2 \* \* \*

every minute : \*\*\*\*\*

concurrencyPolicy: “Forbidden” means 2 workflows cannot simultaneously use this template

Policy that determines what to do if multiple Workflows are scheduled at the same time. Available options: Allow: allow all, Replace: remove all old before scheduling a new, Forbid: do not allow any new while there are old. Default is allow

startingDeadlineSeconds: default 0

Number of seconds after the last successful run during which a missed Workflow will be run

Crash Recovery

If the workflow-controller crashes (and hence the CronWorkflow controller), there are some options you can set to ensure that CronWorkflows that would have been scheduled while the controller was down can still run. Mainly startingDeadlineSeconds can be set to specify the maximum number of seconds past the last successful run of a CronWorkflow during which a missed run will still be executed.

For example, if a CronWorkflow that runs every minute is last run at 12:05:00, and the controller crashes between 12:05:55 and 12:06:05, then the expected execution time of 12:06:00 would be missed. However, if startingDeadlineSeconds is set to a value greater than 65 (the amount of time passing between the last scheduled run time of 12:05:00 and the current controller restart time of 12:06:05), then a single instance of the CronWorkflow will be executed exactly at 12:06:05.

Specify workflowspec where thr template definition lies

Suspend it using argo ui or cli argo -n argo cron suspend cronwf-dag to stop it from running in schedule

D:\Argo\handson\adv\_concepts>cd 2\_cron\_workflow

D:\Argo\handson\adv\_concepts\2\_cron\_workflow>argo -n argo cron create cronwf-dag.yaml

Name: cronwf-dag

Namespace: argo

Created: Wed Feb 02 18:44:24 +0530 (now)

Schedule: 0 2 \* \* \*

Suspended: false

StartingDeadlineSeconds: 70

ConcurrencyPolicy: Forbid

NextScheduledTime: Thu Feb 03 07:30:00 +0530 (12 hours from now) (assumes workflow-controller is in UTC)

D:\Argo\handson\adv\_concepts\2\_cron\_workflow>argo -n argo cron list

NAME AGE LAST RUN NEXT RUN SCHEDULE SUSPENDED

cronwf-dag 28s N/A 12h 0 2 \* \* \* false

D:\Argo\handson\adv\_concepts\2\_cron\_workflow>argo -n argo submit cronwf/cronwf-dag

time="2022-02-02T18:45:54.482Z" level=fatal msg="open cronwf\\cronwf-dag: The system cannot find the path specified."

D:\Argo\handson\adv\_concepts\2\_cron\_workflow>argo -n argo submit --from cronwf/cronwf-dag

Name: cronwf-dag-f9jfc

Namespace: argo

ServiceAccount: default

Status: Pending

Created: Wed Feb 02 18:46:52 +0530 (now)

Progress:

This workflow does not have security context set. You can run your workflow pods more securely by setting it.

Learn more at <https://argoproj.github.io/argo-workflows/workflow-pod-security-context/>