

# SEMAPHORE API - SERVICE DETAILS

**APRIL 2024, KAMIL GOŁOFIT** 

# **AGENDA**

#### **SEMAPHORE API**

- HANDY LINKS
- WHAT ARE SEMAPHORES?
- AZURE COMPONENTS OF SEMAPHORES
- SEMAPHORE API ENDPOINTS
- ARCHIEVING SEMAPHORES
- TYPICAL SEMAPHORE LIFECYCLE





#### **HANDY LINKS**

Links for semaphore-related resources:

#### APP SERVICE ENVIRONMENTS:

- o dev https://app-cdl-semaphore-api-n101.azurewebsites.net
- o test <a href="https://app-cdl-semaphore-api-n201.azurewebsites.net">https://app-cdl-semaphore-api-n201.azurewebsites.net</a>
- o breakfix <a href="https://app-cdl-semaphore-api-n301.azurewebsites.net">https://app-cdl-semaphore-api-n301.azurewebsites.net</a>
- o prod <a href="https://app-cdl-semaphore-api-p101.azurewebsites.net">https://app-cdl-semaphore-api-p101.azurewebsites.net</a>

#### API Management gateway:

- dev <a href="https://api-nonprod.pgcloud.com/othersupportingdata/it/v1/metadata-dev/">https://api-nonprod.pgcloud.com/othersupportingdata/it/v1/metadata-dev/</a>
- test <a href="https://api-nonprod.pgcloud.com/othersupportingdata/it/v1/metadata-test/">https://api-nonprod.pgcloud.com/othersupportingdata/it/v1/metadata-test/</a>
- bf <a href="https://api-nonprod.pgcloud.com/othersupportingdata/it/v1/metadata-bf/">https://api-nonprod.pgcloud.com/othersupportingdata/it/v1/metadata-bf/</a>
- prod <a href="https://api.pgcloud.com/othersupportingdata/it/v1/metadata/">https://api.pgcloud.com/othersupportingdata/it/v1/metadata/</a>

#### GitHub repository:

o <a href="https://github.com/procter-gamble/DA-PP-PDA-Metadata-Semaphore-API">https://github.com/procter-gamble/DA-PP-PDA-Metadata-Semaphore-API</a>

#### ADO pipeline:

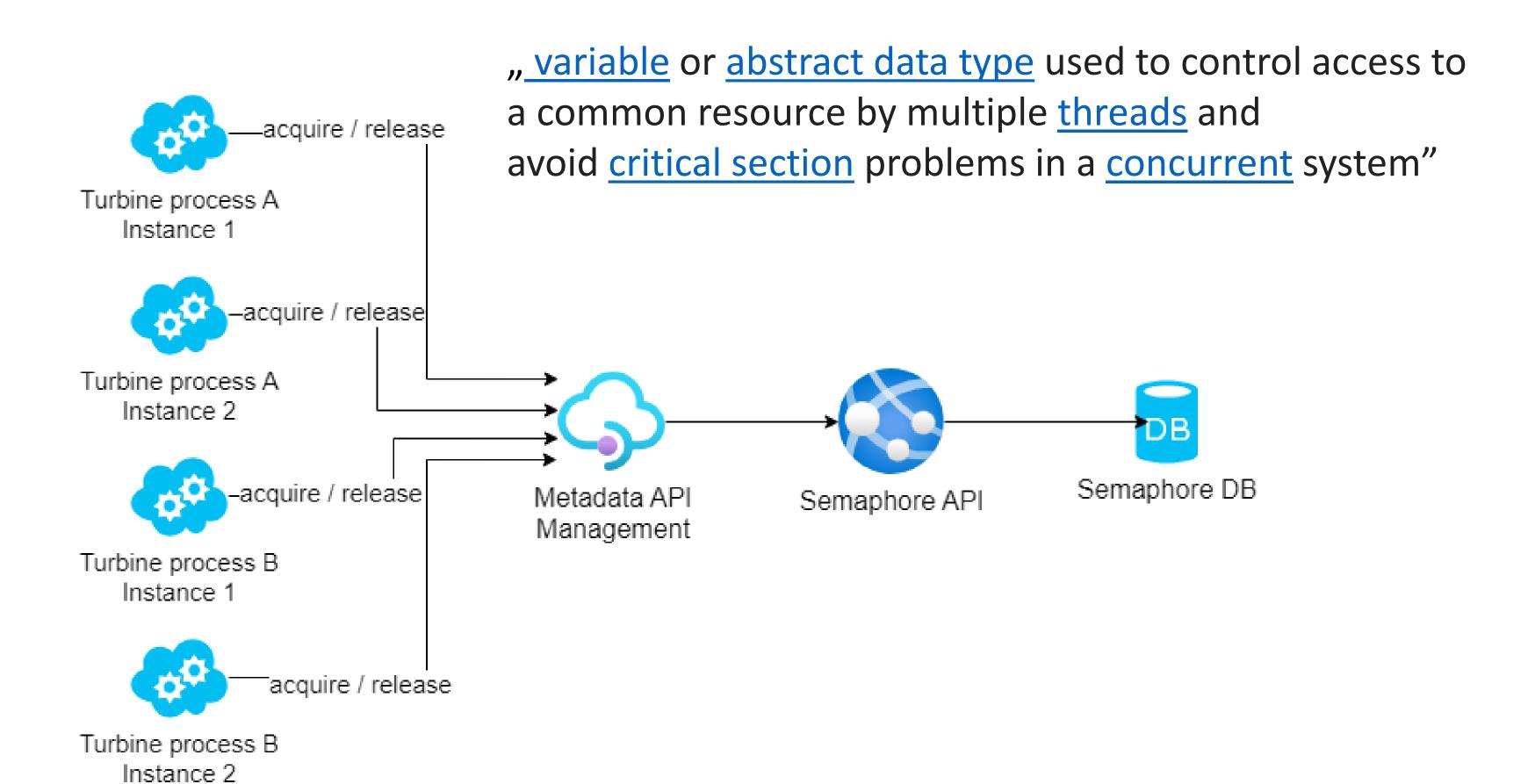
https://dev.azure.com/dh-platforms-devops/app-cdl-turbine/ build?definitionId=1988& a=summary



# WHAT ARE SEMAPHORES?

# O

Definition of SEMAPHORE in a nutshell:

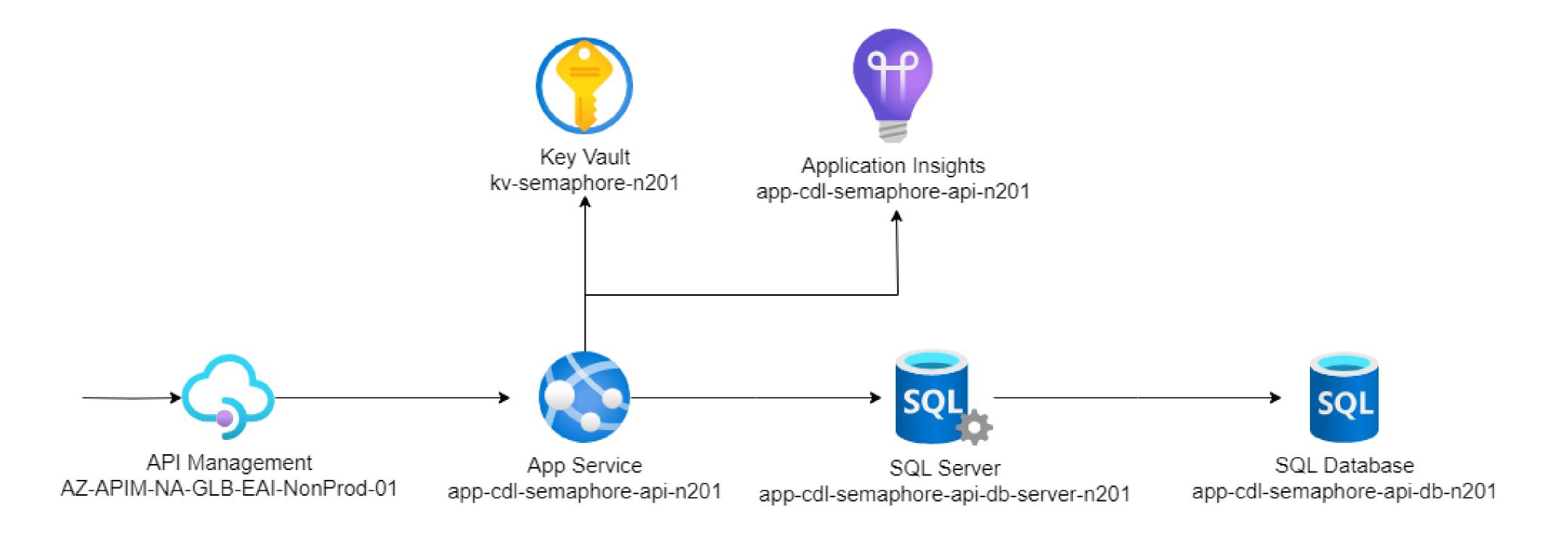




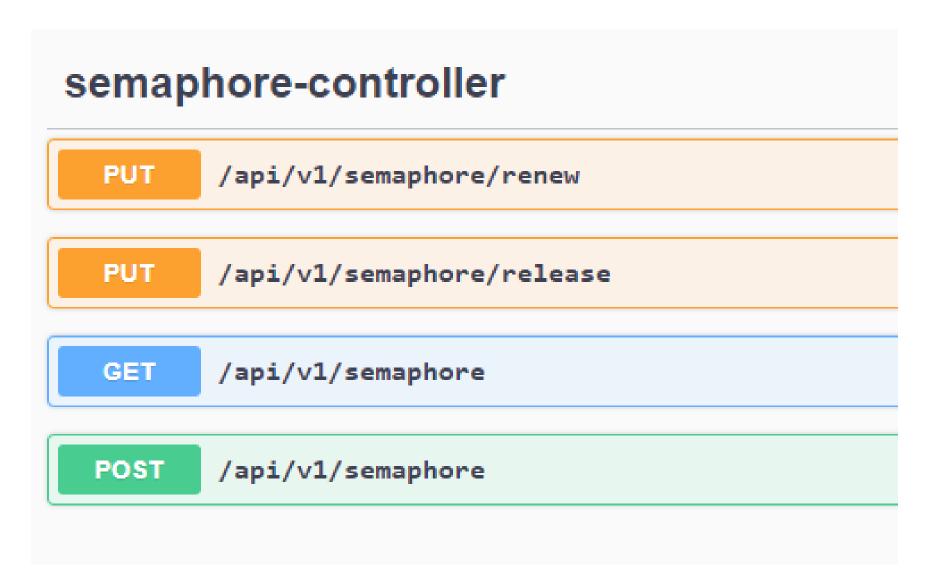
# **AZURE COMPONENTS OF SEMAPHORE API**

Using TEST/QA instance as an example for component names:





#### **SEMAPHORE API ENDPOINTS**



### POST /api/v1/semaphore

- For creating/acquiring a semaphore for given resource
- It can be of type EXCLUSIVE or SHARED
- SHARED semaphore can have *concurrentProcessLimit* parameter passed
- It's impossible to acquire semaphore for the same resource for different process run (exclusive) OR if concurrentProcesLimit would be reached when acquiring next semaphore
- null requestedTimespan means inifinite semaphore, non-null value unit is in seconds



```
POST
           /api/v1/semaphore
Parameters 4 8 1
No parameters
Request body required
Example Value | Schema
   "resourcePath": "string",
   "resourcePathPattern": "string",
   "semaphoreType": "SHARED",
   "processRunKey": 0,
   "requestedTimespan": 0,
   "concurrentProcessLimit": 0
```

#### **SEMAPHORE API ENDPOINTS**

#### • GET /api/v1/semaphore

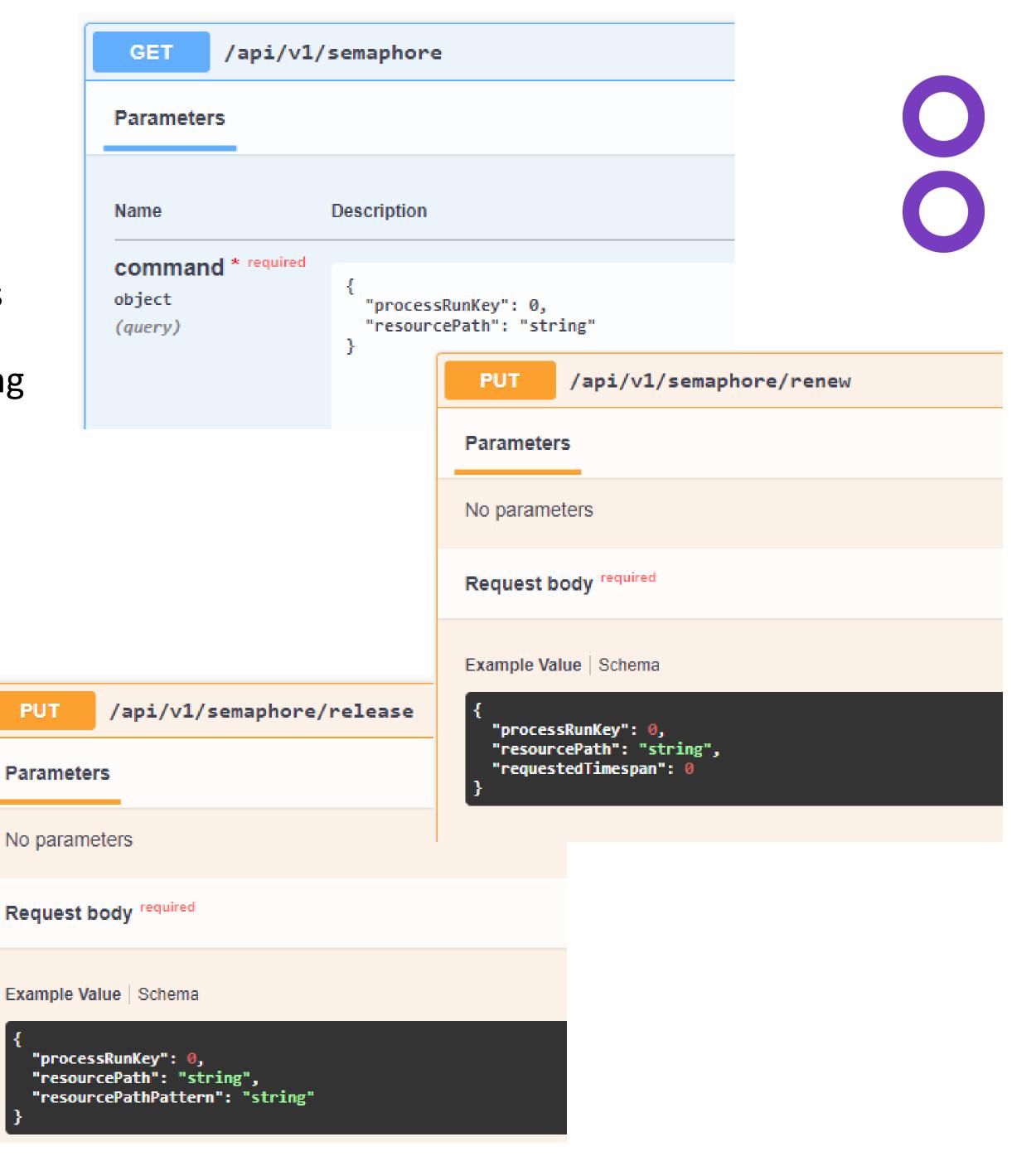
- for listing existing/acquired semaphores
- processRunKey and resourcePatch can be passed as url parameters to filter specific semaphores
- provide all information about semaphore including semaphore acquisition and release time

#### PUT /api/v1/semaphore/renew

- allows for extension of semaphore acquisition time
- timespan needs to be > 0, in seconds
- requested time is added to current release time

#### • PUT /api/v1/semaphore/release

- releases given semaphore
- watchout: releases all semaphores matching given parameters



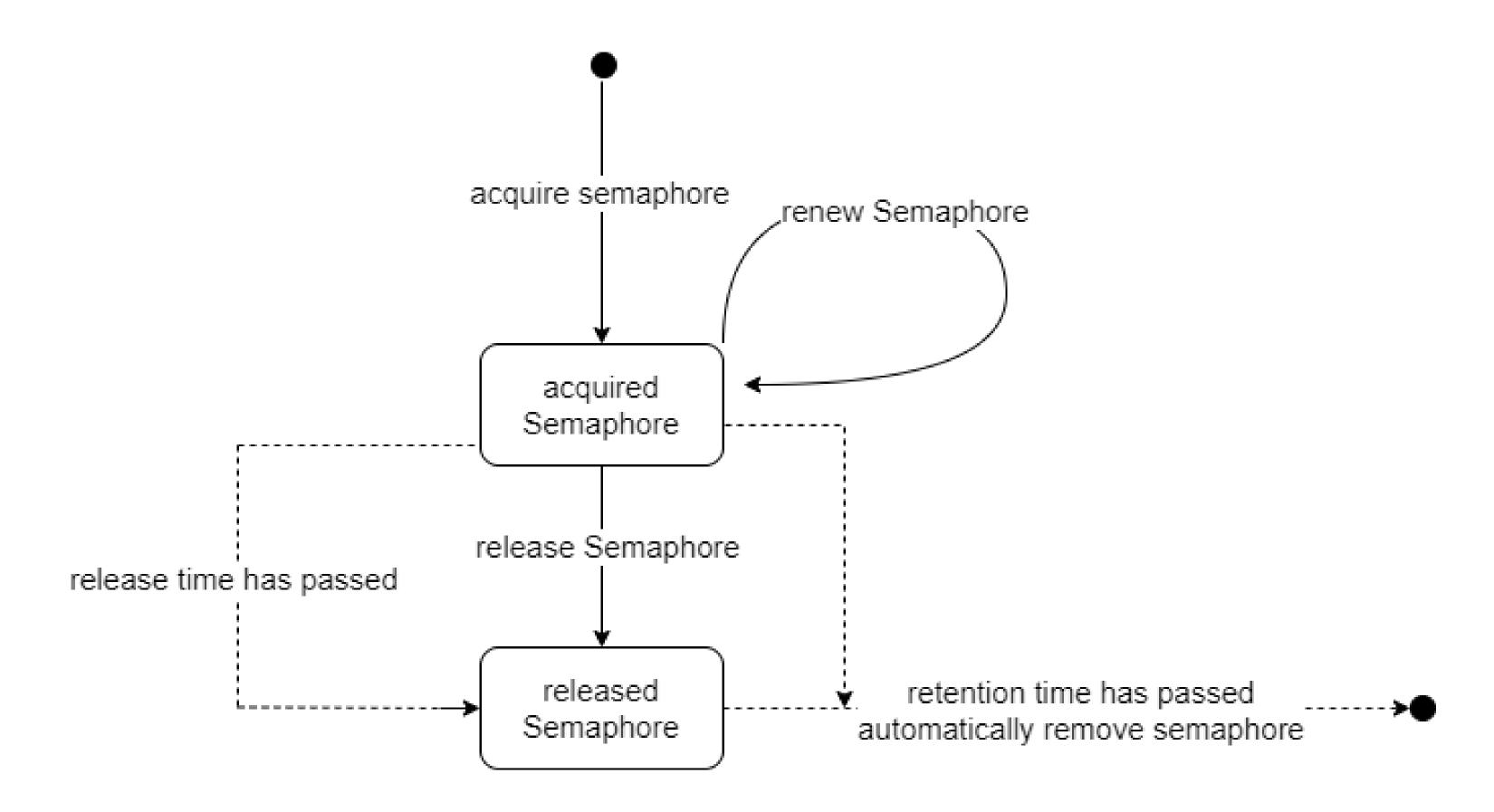
#### **ARCHIEVING SEMAPHORES**

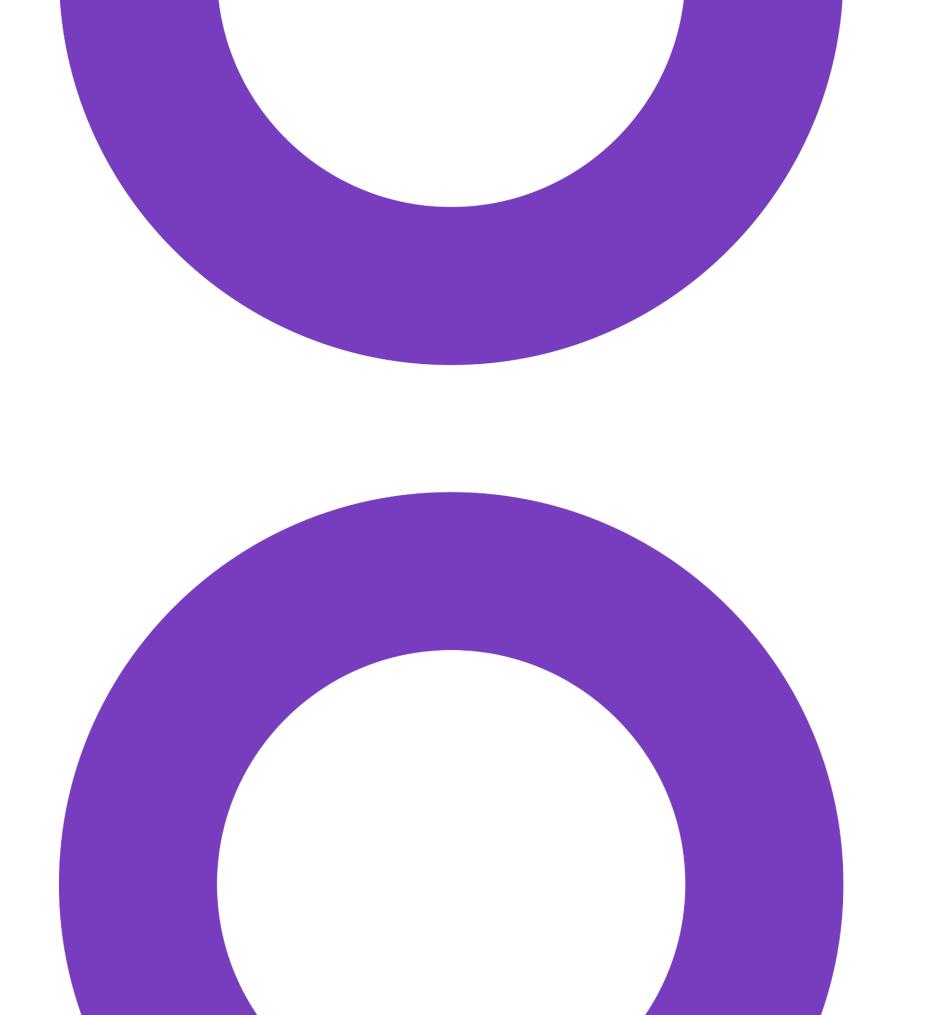
0

- Semaphore cleaning job is running every hour
- Every semaphore which is existing for more than 2 days (retention time) will be automatically deleted by cleaning job
- Both (exclusive and shared) types of semaphores are automatically deleted after retention time
- If semaphore is released earlier, it's entity stays in the DB for retention time and it's being deleted by the cleaning job afterwards

# **TYPICAL SEMAPHORE LIFECYCLE**









Thank you!

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