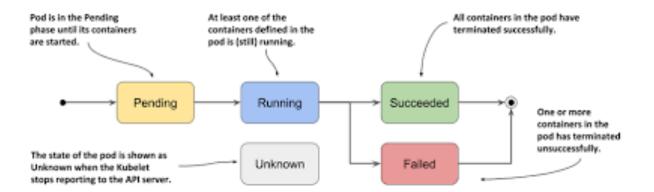
PodSupervisor Are your pods sleeping?

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Sep 27, 2022

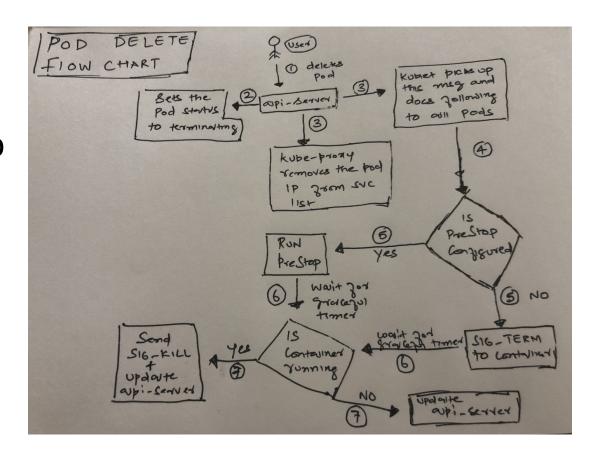
Issue

- In a highly redundant OpenShift environment – Fail Fast is important to uptime of applications.
- OpenShift "kills" pods on notready node when node reboots.
 In addition, Nodes marked unscheduable should also be avoided for better uptime.



Solution

- A new monitor script that watches all nodes for not-ready or un-schedeable are cleaned up of all non-system pods
- Non-system pods do not have "openshift-" in there namespace/project name.



Example

- Node is marked un-scheduable
- Script is run
- Two pods are deleted

```
gwest@gwest@redhat podsupervisor % oc get nodes
NAME
                  STATUS
                                                           VERSION
                                             ROLES
                                                      AGE
control-plane-0
                  Ready
                                                     27h
                                                           v1.20.10+bbbc079
control-plane-1
                                                           v1.20.10+bbbc079
                 Ready
                                             master
control-plane-2
                 Ready
                                                     27h
                                                           v1.20.10+bbbc079
                                             master
worker-0
                  Ready
                                             worker
                                                     27h
                                                           v1.20.10+bbbc079
worker-1
                                             worker
                                                     27h
                                                           v1.20.10+bbbc079
                  Ready, SchedulingDisabled
gwest@gwest@redhat podsupervisor % oc get pods
                                                       AGE
                           READY
                                  STATUS
                                             RESTARTS
httpd-ex-7bd6c6788-7hlcj 1/1
                                                       151m
                                   Running
httpd-ex-7bd6c6788-rdfdc 1/1
                                   Running
                                                       151m
gwest@gwest@redhat podsupervisor % ./podsupervisor.sh
Cleaning up worker-1
Cleaning up worker-1/testapp/httpd-ex-7bd6c6788-7hlcj
pod "httpd-ex-7bd6c6788-7hlcj" deleted
Cleaning up worker-1/testapp/httpd-ex-7bd6c6788-rdfdc
pod "httpd-ex-7bd6c6788-rdfdc" deleted
gwest@gwest@redhat podsupervisor %
```

Result

- Pods have moved to worker-0, as the worker-1 is un-scheduable.
- No system/openshift pods were touched or harmed.

```
[gwest@gwest@redhat podsupervisor % oc get pods -o wide
NAME
                            READY
                                    STATUS
                                              RESTARTS
                                                                              NODE
                                                                                                           READINESS GATES
                                                         AGE
                                                               IΡ
                                                                                         NOMINATED NODE
httpd-ex-7bd6c6788-7pvkt
                            1/1
                                    Running
                                                               10.131.0.32
                                                                              worker-0
                                                                                          <none>
                                                                                                           <none>
httpd-ex-7bd6c6788-1t269
                           1/1
                                    Running
                                                         77s
                                                               10.131.0.33
                                                                              worker-0
                                                                                          <none>
                                                                                                           <none>
```

Things to add/Enhancements

- AvoidList for things like operators or other infra components
- State Transition Support Wait till node is ready once before processing
- Event/Notification/Logging
- Kill coredns service if exists
- Migrate from cronjob to static pod
- Wait two cycles of not-ready to trigger

Source

- Upstream source:
- https://github.com/glennswest/podsupervisor