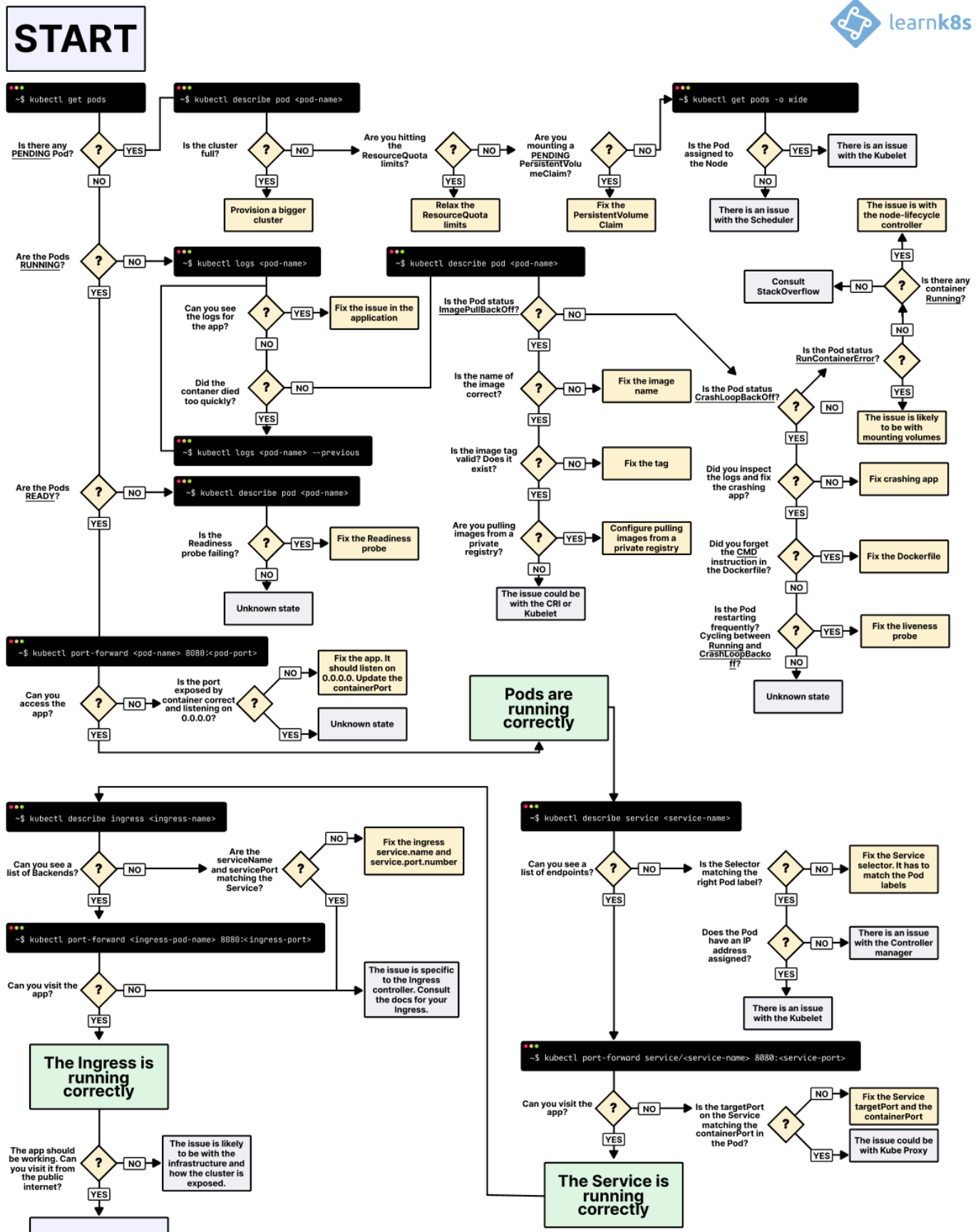


Troubleshooting in Kubernetes



END

1- PENDING: The pod is waiting to get scheduled on a node, or for at least one of its containers to initialize.

2- RUNNING: The pod has been assigned to a node and has one or more running containers.

3- SUCCEEDED: All of the pod's containers exited without errors.

4- COMPLETED: mostly used for Job very famous for db migration

5- FAILED: One or more of the pod's containers terminated with an error. ----- bad image

6- UNKNOWN: Usually occurs when the Kubernetes API server could not communicate with the pod's node.

7- CRASHLOOPBACKOFF: this can mean multiple things like the pod is failing liveness or readiness probe the image is bad, there is no process to hold the container alive

8- INIT ERROR: in most cases the init container is having issues the main container will not start

9- ERRIMAGEPULL: the image provided in the manifest does not exist or you don't have permission to pull it

10- ERROR: there is an issue with info inside the manifest or the image is bad

11 CREATECONTAINERCONFIGERROR: this refers to the config information for the container most of the time the config map has an issue or is not mounted at the correct location

12 SCHEDULING FAILURE: this can be due to kubelet or scheduler issue most of the time running the command `systemctl restart kubelet` if it does not work, rebooting the node where the pod is running is the first step toward fixing the issue, also check node metrics (volume, cpu, memory)

13 EVICTED: this means the pod could not bound or attach to a persistent volume.

list of issues reported by Kubernetes when `kubectl -n [namespace] describe pod [pod name]` or `kubectl -n [namespace] get env` is ran

- 1- scheduling issue
- 2- volume bound issue
- 3- pod taint issue

- 4- liveness probe issue
- 5- readiness probe issue
- 6- image pull error issue
- 7- lack of credentials for access private repository
- 8- etcd issue
- 9- pod to relation issue
- 10- volumeMount issue
- 11- missing secret
- 12 - sandbox no more available port to bind into
- 13- etcdserver mvcc database space exceeded