DevOps Assignment v1

The task

Write the Kubernetes deployment manifest to run **Docker Registry** in Kubernetes with at least the following resources deployment, service, persistent volume claim, garbage collect cron job, ingress, secret (if needed).

Make sure Docker Registry uses Redis for cache and look into the possibility to run 2 replicas of Docker Registry for redundancy.

Record any issues you encounter. You’re also welcome to list improvement ideas for the service that are outside the scope of this assignment.

Optional (stretch) task

Write a script that implements Docker Registry retention. In the registry, we might have many repositories with different tags

* serviceA:tag1, serviceA:tag2, serviceA:v7, service:latest
* serviceB:v3, serviceB:v1
* etc.

The retention job/script should be able to work with different retention settings: For example:

* Retain only the last 5 images of serviceA
* Retain only the last 3 images of serviceB
* Retain only the last X images of serviceY

Feel free to choose any language and method to periodically run the retention job.

Solution

Please return your finished solution as a .zip file or GitHub repo to [dechan@33talent.com](mailto:dechan@33talent.com)