

Continuous Integration Discussion

There are several steps that I take to update.

First of all, I build a new docker image and push it to dockerhub with an updated tag.

Next, using the tag from last step, I updated the deployment.yaml. After I commit and pushed it to my github repo, it can be detected almost immediately by argoCD.

CURRENT SYNC STATUS ⓘ

✓ Synced

Author: Ziang Zhou <zz188@duke.edu> -
Comment: update deployment config from 0.1 -> 0.2

To HEAD (b449c3f)

[MORE](#)

LAST SYNC RESULT ⓘ

✓ Sync OK

Succeeded 8 minutes ago (Thu Feb 24 2022 21:05:10 GMT+0800)

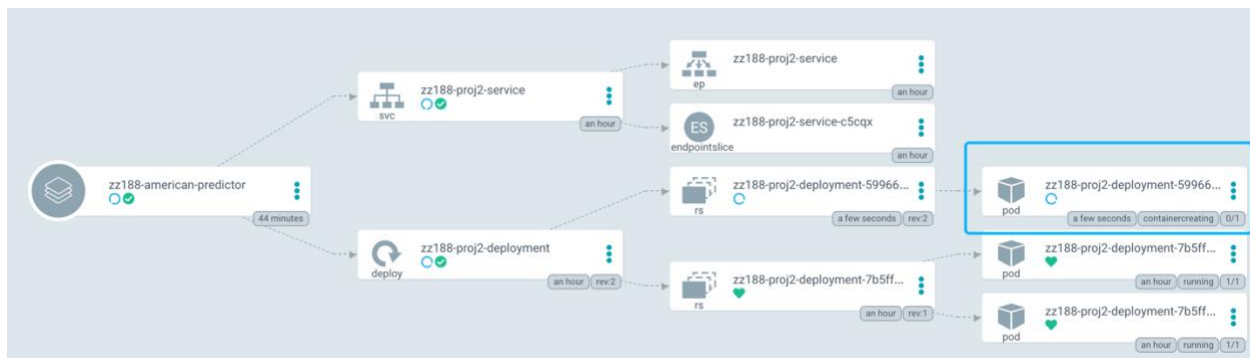
Author: Ziang Zhou <zz188@duke.edu> -
Comment: fixed model download url 0.2.1 -> 0.2.2

To b449c3f

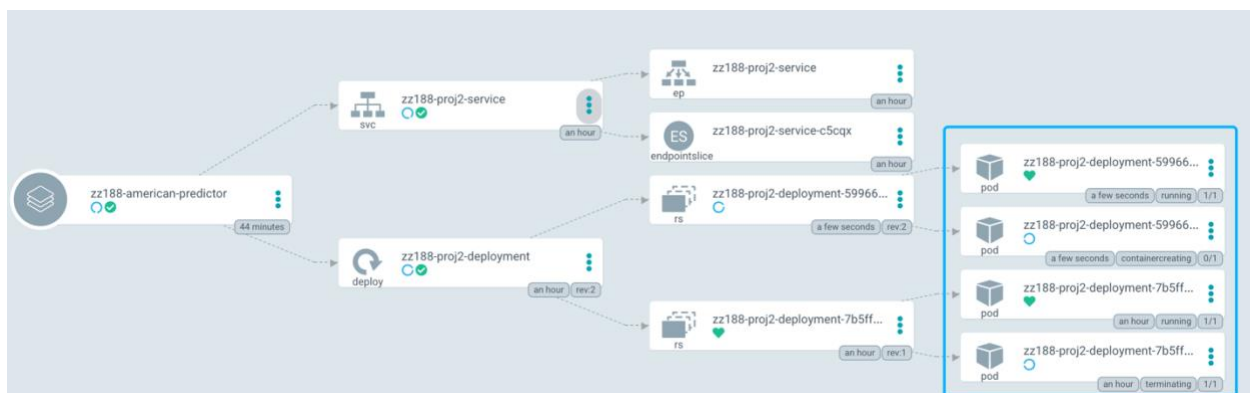
[MORE](#)

Then I observed that the pods “transferred” to the new deployment in a “rolling style”.

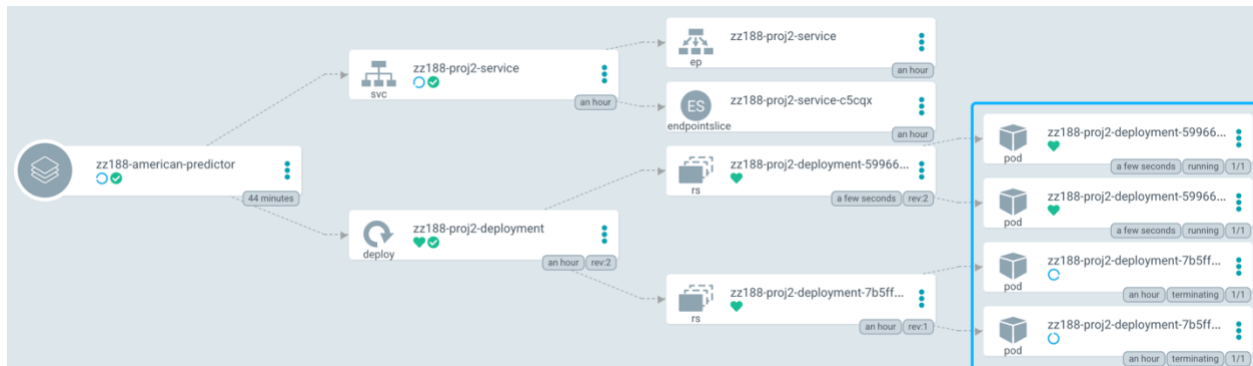
Recorded by screenshots below.



↑ preparing for the substitution of the first pod.



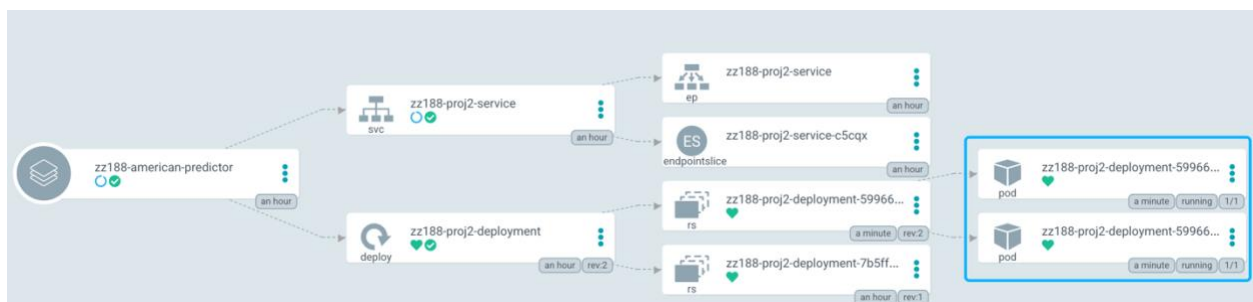
↑ Once the pod in the new deployment is ready, initiate termination of the old pod. At the same time, preparing for the substitution of the second pod.



↑ Second pod in the new deployment is ready. Initiating termination of the second old pod.



↑ First old pod is terminated.



↑ Second old pod is terminated

The Rolling Update Strategy is very clever in that it guarantees the server always capable of responding to a request, even when the new pods are not fully prepared for a new deployment.

It takes about 4 or 5 refresh clicks after I pushed deployment.yaml to github repo, around 20 seconds for the new deployment to be effective without staying offline.