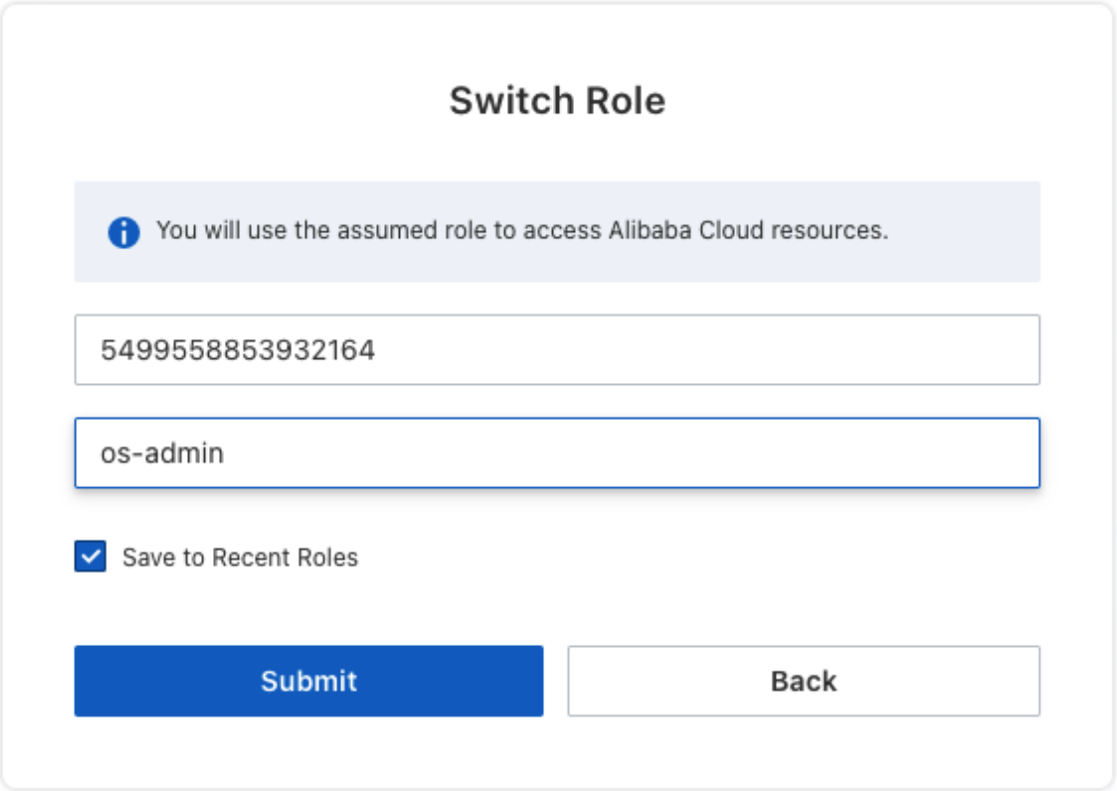
Force-restarting a container-based service in Alibaba Container Service for Kubernetes

Requirements

- Error condition making a container-based service/workload unusable
- An Alibaba Cloud RAM user able to log in to Alibaba Cloud account #5499558853932164
    - Such user should be a member of the *OSAdministrators* RAM group
- Jira access to https://jira.mmfg.it/ , which in turn requires the MMFG VPN access
- Service inventory linking the service entity and its entry point to the underlying Kubernetes Namespace and Deployment, so as to know which Kubernetes pods to restart

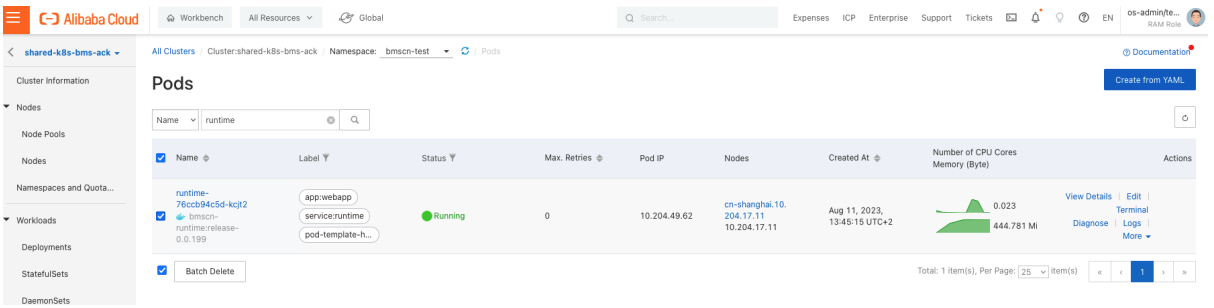
Procedure

1. Log in to the Alibaba Cloud console as an OS Administrator user
2. Assume the os-admin role

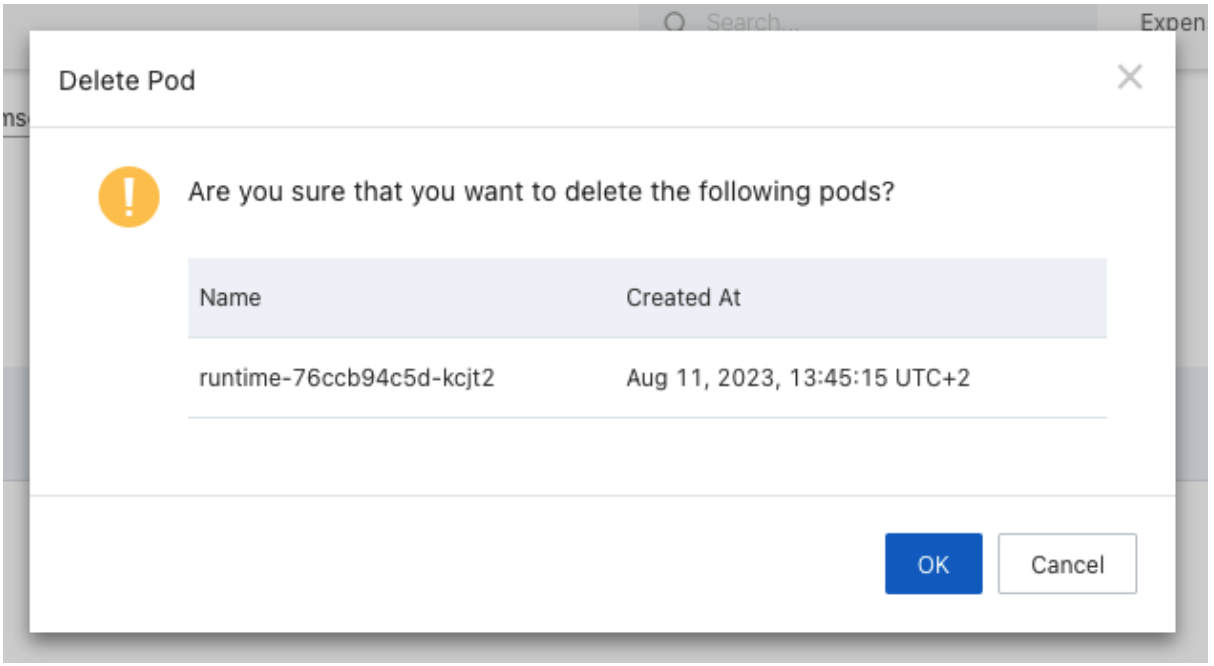


3. Enter the Container Service for Kubernetes product
4. Select the relevant cluster (as of now we have only one cluster in the Shanghai region), entering the cluster details

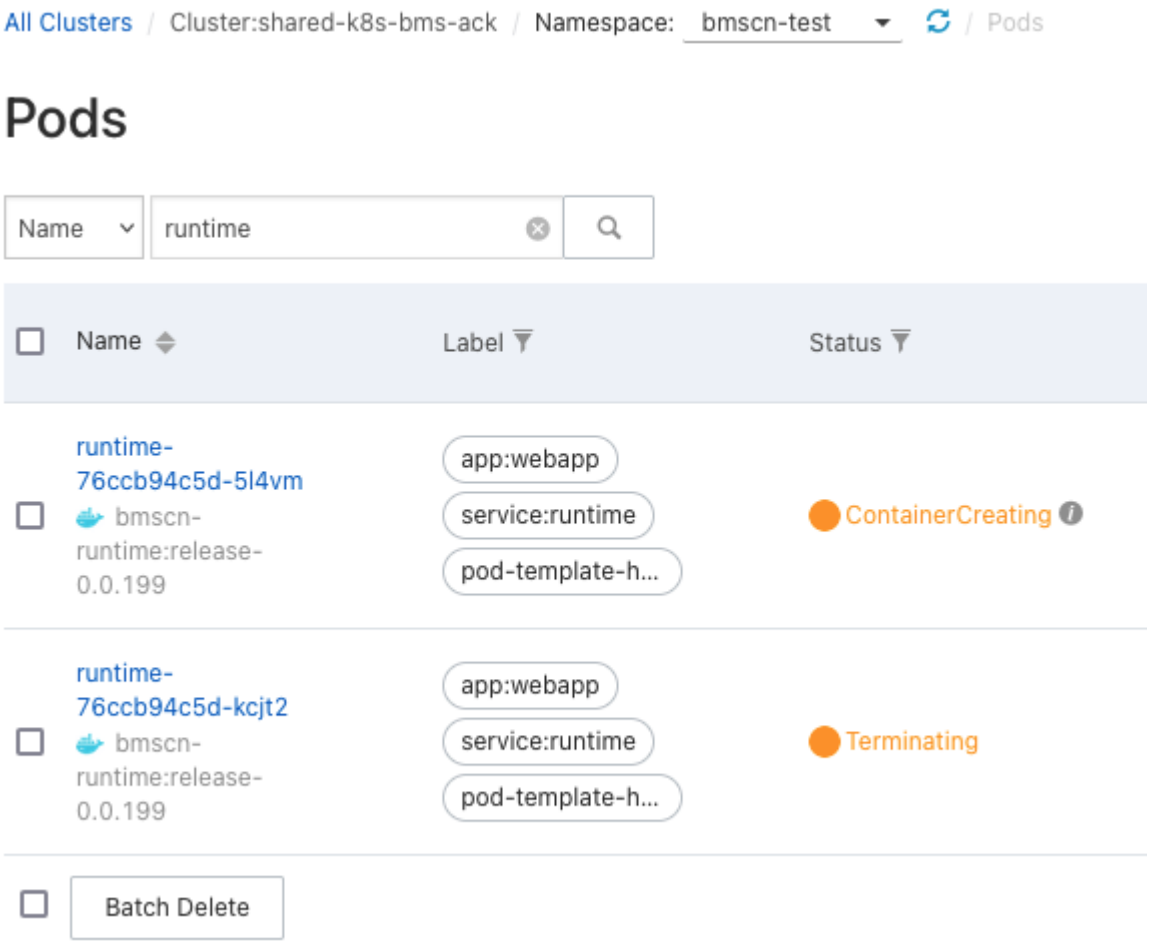
5. Choose the Pods element from the left sidebar. We mean to delete the currently running pods, so Kubernetes will launch new pods from the existing Deploymnts
6. Choose the relevant Kubernetes namespace from the top combo selector (*bmscn-test* in the lower example image)
7. Enter the deployment name in the search box - the pods that are running from a Deployment definition have a name such as {deployment}-{random identifier}
8. Identify the pods that we want to delete, thus triggering the service restart
9. Click the checkboxes on the left for all pods that need to be restarted
10. Click the *Batch Delete* button



11. Confirm the action

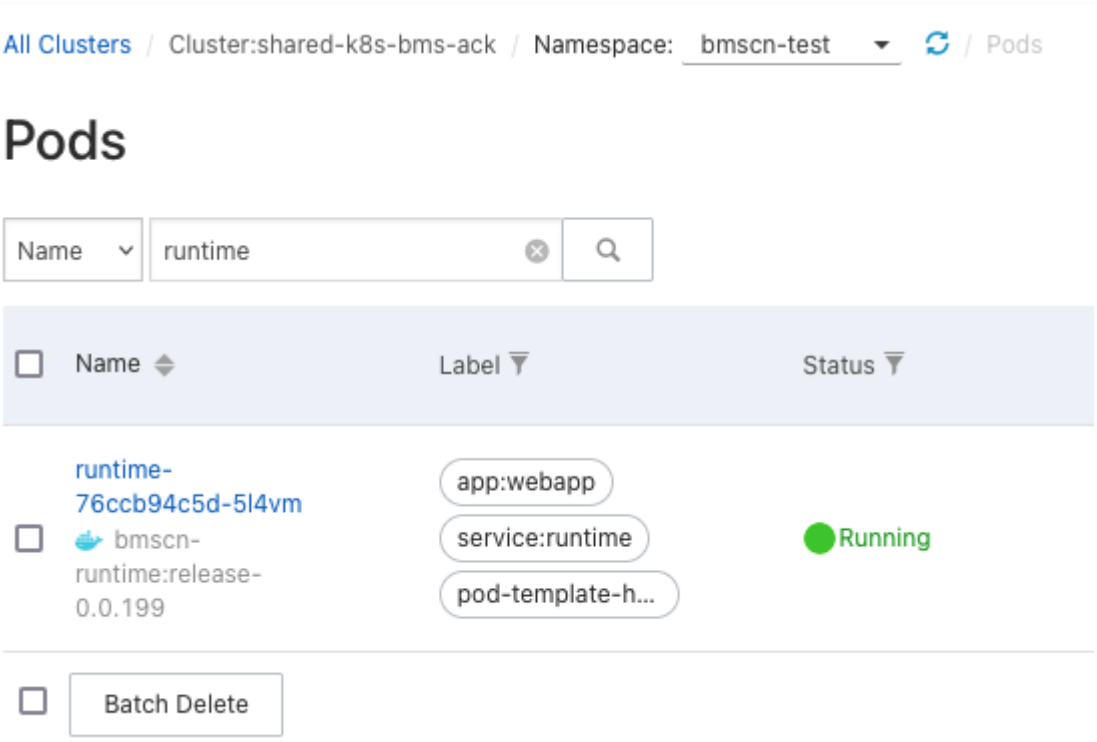


12. Reloading with the spinning arrows 🔄 button, the selected pods should now appear as *Terminating*



13. New pods with the *ContainerCreating* state will replace the terminating pods

14. When the restart is complete only the newer pods will remain in the *Running* state



15. If no more actions are required on the Kubernetes workloads, the user may switch back to his/her original identity, exiting the *os-admin* role
16. Open an issue in Jira, choosing the relevant project for this service
    a. declaring the service outage
    b. describing the Kubernetes pods restart action that has been performed
    c. detailing the restart outcome - is the service operating now?