export ns=default

alias k='kubectl -n $ns' *# This helps when namespace in question doesn't have a friendly name*

alias kdr= 'kubectl -n $ns -o yaml --dry-run'.  *# run commands in dry run mode and generates yaml.*

**Pods:**

In any of the practical quizzes if you are asked to **edit an existing POD**, please note the following:

* If you are given a pod definition file, edit that file and use it to create a new pod.
* **If you are not given a pod definition file**, you may extract the definition to a file using the below command:

kubectl get pod <pod-name> -o yaml > pod-definition.yaml

Then edit the file to make the necessary changes, delete and re-create the pod.

* Use the kubectl edit pod <pod-name> command to edit pod properties.

**ReplicaSet:**

Replica set is the advanced version of ReplicationController.

Api for replicaset should be apps/v1 instead of v1 as in case of ReplicationController.

The default output format for all **kubectl** commands is the human-readable plain-text format.

The -o flag allows us to output the details in several different formats.

**kubectl [command] [TYPE] [NAME] -o <output\_format>**

Here are some of the commonly used formats:

1. -o jsonOutput a JSON formatted API object.
2. -o namePrint only the resource name and nothing else.
3. -o wideOutput in the plain-text format with any additional information.
4. -o yamlOutput a YAML formatted API object.

Here are some useful examples:

* **Output with YAML format:**

1. master $ kubectl create namespace test-123 --dry-run -o yaml
2. apiVersion: v1
3. kind: Namespace
4. metadata:
5. creationTimestamp: null
6. name: test-123
7. spec: {}
8. status: {}

* **Output with wide (additional details):**

Probably the most common format used to print additional details about the object:

1. master $ kubectl get pods -o wide
2. NAME      READY   STATUS    RESTARTS   AGE     IP          NODE     NOMINATED NODE   READINESS GATES
3. busybox   1/1     Running   0          3m39s   10.36.0.2   node01   <none>           <none>
4. ningx     1/1     Running   0          7m32s   10.44.0.1   node03   <none>           <none>
5. redis     1/1     Running   0          3m59s   10.36.0.1   node01   <none>           <none>
6. master $

**Namespaces:**

kube-system

Default

kube-public

**Kubectl explain pods –recursive | grep envFrom –A3**

Default service account is created for every namespace.

Taint and Tolerations::