**CKA Questions [Confidential]**

**1. List your pv sort by name.[DONE]**

**List your pv sort by size.[DONE]**

**2. All ready nodes, one of them marked as no-schedule, list all the nodes excluding the label no-schedule.[DONE]**

**3. Kubectl command failing with error - “ The connection to the server localhost:8080 was refused - did you specify the right host or port?”. Fix it.**

**4. Create 2 pods -- mypod1 and mypod2 , mypod2 should be scheduled to run anywhere mypod1 is running. [DONE]**

**5. Questions on Init Containers :**

1. **A container will start only if a file is present. [DONE]**

**6. Create a deployment running nginx version 1.12.2 that will run in 2 pods [DONE]  
a. Scale this to 4 pods.  
b. Scale it back to 2 pods.  
c. Upgrade this to 1.13.8  
d. Check the status of the upgrade.  
e. How do you do this in a way that you can see history of what happened?  
f. Undo the upgrade.**

**7. Create a pod that has a liveness check. [DONE]**

**8. Create a pod that has a readiness check.**

**9. Create a busybox container without a manifest. Then edit the manifest. [DONE]**

**10.  Create a job that runs every 3 minutes and prints out the current time. [DONE]**

**11. Create a job that runs 20 times, 5 containers at a time, and prints "Hello parallel world" [DONE]**

**12.  Get the list of pod by doing a CURL to the kube-apiserver. [Done]**

**13. Deploy a pod with the wrong image name (like --image=nginy) and find the error message. [DONE]**

**14. Get logs for a pod which has multiple containers running. [DONE]**

**15. Deploy nginx with 3 replicas and then expose a port [DONE]  
a. Use port forwarding to talk to a specific port**

**16. Create a service that uses an external load balancer and points to a 3 pod cluster running nginx. [DONE]**

**17. Get the status of all the master components [DONE]**

**18.Create a pod that runs on a given node.[DONE]**

**19. Create a pod that uses secrets [DONE]  
a. Pull secrets from environment variables  
b. Pull secrets from a volume  
c. Dump the secrets out via kubectl to show it worked**

**20. Create a static pod and then delete the pod. [DONE]**

**21. Create a pod that do not get IP from the range of allocated CIDR block. Ensure that this is not a static pod. [DONE]**

**22. Create a service that uses a scratch disk. [Done]  
a. Change the service to mount a disk from the host. [Local-PV]  
b. Change the service to mount a persistent volume. [hostPath PV]**

**24. Create a service that manually requires endpoint creation - and create that too. [DONE]**

**25. Create a daemon set  
a. Change the update strategy to do a rolling update but delaying 30 seconds [DONE]**

**26. Create a horizontal autoscaling group that starts with 2 pods and scales when CPU usage is over 50%. [Done]**

**27. Create a custom resource definition [DONE]  
a. Display it in the API with curl**

**28. Create a service that references an externalname. [DONE]  
a. Test that this works from another pod**

**29. Create a pod that runs all processes as user 1000. [DONE]**

**30. Write an ingress rule that redirects calls to /foo to one service and to /bar to another.[Done]**

**31. Write a service that exposes nginx on a nodeport [DONE]  
a. Change it to use a cluster port  
b. Scale the service  
c. Change it to use an external IP  
d. Change it to use a load balancer**

**32. Deploy nginx with 3 replicas and then expose a port [DONE]  
a. Use port forwarding to talk to a specific port**

**33. Get logs for Kubernetes master components [DONE]**

**34. Get logs for Kubelet. [DONE]**

**35. Backup an etcd cluster [DONE]**

**36. List the members of an etcd cluster[DONE]**

**37. Find the health of etcd [DONE]**

**38. Create a namespace [Important] [Done]  
a. Run a pod in the new namespace  
b. Put memory limits on the namespace  
c. Limit pods to 2 persistent volumes in this namespace**

**39. Create a networking policy such that only pods with the label access=granted can talk to it. [DONE]  
a. Create an nginx pod and attach this policy to it.   
b. Create a busybox pod and attempt to talk to nginx - should be blocked  
c. Attach the label to busybox and try again - should be allowed**

**40. Create a multi containers of nginx, redis and consul.[DONE]**

**41. Troubleshooting not ready state node.[DONE]**

**42. Add missing worker node -- TLS bootstrapping.[DONE]**

**43. Set up a Kubernetes cluster from scratch by using Kubeadm [DONE]**

**44. Create Redis pod with non-pvolume. [DONE]**

**45. Creating PVolume with host path. [Done]**

**46. Create pods,service in particular namespace, list all services in particular namespace.[DONE]**

**47. Create nginx deployment nginx-random expose  it**

**then create another pod busybox and do the following: [DONE]**

**(a) Dnlookup service**

**(b) Dnslookup pod.**

**48. Expose a service to Nodeport. [Done]**

**49. Create a pod that by passes kube-scheduler. Ensure that this is not a static pod. [DONE]**