# **EX280 Practice Questions**

This document contains 22 practice questions for the EX280 exam.

Q1. Configure an HTPasswd identity provider named `htpass-exam` with a secret `htpass-secret`.

- `neil` with password `moonwalk`
- `buzz` with password `eaglehaslanded`

Ensure users can log in and verify with `oc whoami`.

Q2. Grant user `neil` full cluster-admin rights.

Restrict user `buzz` to only create projects but not modify cluster-wide resources.

Remove `kubeadmin` from the cluster.

Q3. In project `apollo`, create a quota named `apollo-quota`:

- Max 2 CPUs
- Max 1Gi memory
- Max 3 pods
- Max 2 services

Q4. In project `titan`, create a LimitRange named `titan-limits`:

- Pod memory: 100Mi-300Mi

- Pod CPU: 10m-500m

- Container default request: 100m CPU, 100Mi memory

Q5. Deploy an app named `rocky` in project `bluewills` using image `quay.io/redhattraining/hello-op Expose it via route: `http://rocky.apps.ocp4.example.com`

Q6. In project `area51`, deploy app `oxcart` with a secure route using a self-signed cert:

- CN: `oxcart.apps.ocp4.example.com`

Use `newcert` or `openssl` to generate certs

Q7. In project `lerna`, scale app `hydra` to 5 replicas manually.

Q8. In project `gru`, configure autoscaling for app `scala`:

- Min: 6, Max: 40 replicas - CPU threshold: 60%

- CPU request: 25m, limit: 100m

Q9. In project `math`, create a secret `magic` with:

- `Decoder\_Ring=ASDA142hfh-gfrhhueo-erfdk345v`

Q10. Configure app `qed` in `math` to use the above secret as environment variable.

Q11. In project `apples`, create service account `ex280-sa` with `anyuid` SCC. Deploy app `oranges` using this service account.

Q12. In project `space`, deploy app `gamma` using image `quay.io/redhattraining/hello-world-nginx Mount a PVC `gammapvc` (1Gi, RWX) backed by PV `gamma-pv` using NFS at `192.168.50.254:/

Q13. In project `marathon`, create a cronjob `scaling` using image `quay.io/redhattraining/scaling`. Schedule: `4:05 AM` every 2nd day of the month.

Use service account `ex280-ocpsa` with cluster-admin rights.

Q14. In project `space`, configure liveness probe for app `gamma`:

- TCP socket on port 8080
- Initial delay: 3s, Timeout: 10s

Q15. In project `atlas`, create:

- A deny-all network policy
- A policy to allow traffic from `rocky` pod in `bluewills` to `mercury` pod in `atlas` on TCP port 8080

Q16. Install File Integrity operator in the openshift-file-integrity project. Operator should have stable Operator should automatically update itself through OLM.

Q17. Deploy an application called `voyager` in the project `path-finder`. Don't add any new configuration.

Application should produce a valid output.

Q18. Deploy an application called `mercury` in the project `atlas`.

Don't add any new configuration.

Application should produce a valid output.

Create a deny-all network policy in the `atlas` project.

Create a network policy to allow traffic to the 'mercury' pod in the 'atlas' project from the 'rocky' po

Q19. Create a PV `gamma-pv` (1Gi, RWX) backed by NFS. Then bind it to a PVC `gamma-pvc` in project `space`. Mount it at `/data` in a deployment.

Q20. Create a bootstrap project template that automatically creates the limit range and adds quota For example, a project named `test` has the quota and limit range as `test-quota` and `test-limitrange and ResourceQuota.

Q21. Use the must-gather tool for collecting log files and diagnostic information about your cluster. Store the result at `/root/ex280-clusterdata.tar.gz`.

Activate liveness probes for the application in `space` project. It should utilize the TCP socket port: Probe parameters: initial-delay-seconds=3 and timeout-seconds=10.

Q22. Deploy an application called `gamma` in the project `space` using image `quay.io/redhattraini Provision storage for the filesystem `/srv`.

Application should be reachable at the following URL: `http://space.apps.ocp4.example.com`.