OpenShift EX280 Daily Study Guide

Key links

[EX280 exam page + objectives](#)
[OpenShift docs (latest)](#)
[oc CLI getting started](#)
[OpenShift Local (CRC)](#)
[Developer Sandbox](#)
[OpenShift Interactive Labs](#)

How to use this (10–20 min/day)

- Do the day's tasks in a real cluster using `oc` and YAML.
- Save manifests you apply. Re-apply later to test persistence.
- Troubleshoot: `oc get events` → `oc describe` → `oc logs`.

12-day plan (repeatable)

Day 1 — oc basics + projects

- Create and switch projects/namespaces
- Use `oc get/describe/explain`, output formats (`-o yaml`, `-o jsonpath`)
- Deploy a simple app (Deployment + Service) from YAML

[oc CLI](#)
[Working with projects](#)

Day 2 — Deployments, probes, config

- Edit Deployment: replicas, rolling strategy, resources
- Create ConfigMap + Secret; mount as env and volume
- Add liveness/readiness probes and verify behavior

[Deployments overview](#)
[ConfigMaps](#)
[Secrets](#)

Day 3 — Services, Routes, TLS

- Expose app with Service and Route
- Edge vs reencrypt vs passthrough: know when to use

- Verify with curl + `oc get route`

[Routes](#)

Day 4 — Storage basics

- Create PVC and attach to pod/deployment
- Understand RWO/ROX/RWX in practice
- Troubleshoot Pending PVC (events, StorageClass)

[Persistent storage overview](#)

Day 5 — Users, groups, RBAC

- Practice configuring an IDP (HTPasswd) in a lab
- Create Role/RoleBinding for namespace access
- Verify with `oc auth can-i`

[Identity providers](#)
[RBAC](#)

Day 6 — Quotas + LimitRanges

- Set ResourceQuota and LimitRange
- Test exceeding limits
- Explain requests vs limits

[Quotas per project](#)

Day 7 — NetworkPolicies

- Default deny, then allow from a specific app/namespace
- Prove blocked/allowed traffic with test pods

[Network policy](#)

Day 8 — ServiceAccounts + SCC

- Create ServiceAccount and bind to workload
- Understand restricted default and common failures
- Troubleshoot via events + describe

[Service accounts](#)
[SCCs](#)

Day 9 — Jobs + CronJobs

- Create Job and CronJob from YAML
- Inspect status, retries, logs, completion

[Jobs/CronJobs](#)

Day 10 — Operators

- Install operator (OperatorHub)
- Create a Custom Resource and verify operands
- Uninstall cleanly

[Operators overview](#)

Day 11 — Troubleshooting drill

- Break something (bad image, wrong port, missing secret)
- Fix: events → describe → logs
- Write down your exact commands

[Troubleshooting apps](#)

Day 12 — Mock exam day

- 2 hours: deploy app, route, RBAC, quota, netpol, job, fix one broken deploy
- Create a personal speed cheatsheet

[EX280 page](#)