OpenShift CLI (oc) OpenShift cluster CLI

CONCEPTS

oc contains kubectl: get, describe, apply, logs, exec, scale and every other kubectl verb work unchanged as oc <verb>. This sheet lists only what OpenShift adds.

Git source new-app / new-build
↓ start-build
Build BuildConfig
↓ push
ImageStream tag / import-image
↓ trigger
Deployment rollout
↓ expose
Route public hostname
Source-to-route pipeline

A project is a namespace with extra metadata and access control. -n <project> works on every command.

LOGIN & SESSION

`oc login <url>`
Log in, prompting for credentials

`oc login --token=<token> --server=<url>`
Log in with a token

`oc login <url> --web`
Log in through a browser

LOGIN & SESSION (cont.)

`oc login -u <user> -p <password> <url>`
Non-interactive password login

`oc whoami`
Show logged-in user

`oc whoami --show-console`
Print web console URL

`oc whoami -t`
Print current token

`oc whoami --show-server`
Print API server URL

`oc logout`
End the session

PROJECTS

`oc projects`
List projects you can access

`oc project`
Show current project

`oc project <name>`
Switch project

`oc new-project <name>`
Create and switch to project

`oc delete project <name>`
Delete project and all in it

`oc status`
Overview of the current project

`oc status --suggest`
Overview with issue hints

APPS & BUILDS

`oc new-app <git-url>`
Detect, build and deploy source

`oc new-app --image=<img> --name=<name>`
Deploy an existing image

`oc new-app <builder>~<git-url>`
Build source with a builder image

`oc new-app <img> -e <KEY>=<value>`
Set env vars on create

`oc new-app --template=<tpl> -p <KEY>=<value>`
Instantiate a template

`oc new-app --search <term>`
Search images and templates

`oc new-build <git-url>`
BuildConfig only, no deploy

`oc start-build <bc>`
Start a build

`oc start-build <bc> --follow`
Start and stream build log

`oc start-build <bc> --from-dir=<dir> --follow`
Build from local files

`oc logs -f bc/<bc>`
Follow latest build log

ROUTES & NETWORK

`oc expose svc/<name>`
Create a route for a service

`oc expose svc/<name> --hostname=<host>`
Route with a custom host

`oc get routes`
List routes and hosts

`oc create route edge --service=<svc>`
TLS route, edge termination

`oc port-forward pod/<pod> <local>:<remote>`
Tunnel a local port

DEPLOY & ROLLOUT

`oc rollout status deploy/<name>`
Watch a rollout

`oc rollout restart deploy/<name>`
Restart all pods

`oc rollout undo deploy/<name>`
Roll back one revision

`oc rollout history deploy/<name>`
List revisions

`oc set env deploy/<name> <KEY>=<value>`
Set env var (triggers rollout)

`oc set env deploy/<name> --from=secret/<secret>`
Env from a secret

IMAGES

`oc get is`
List image streams

`oc import-image <is>:<tag> --from=<img> --confirm`
Import an external image

`oc tag <is>:<tag> <is>:<newtag>`
Point a tag at an image

`oc registry login`
Log in to the integrated registry

DEBUG & FILES

`oc rsh <pod>`
Shell in first container

`oc rsync <dir>/ <pod>:<path>`
Copy local dir to pod

`oc debug deploy/<name>`
Copy pod and open a shell

`oc debug node/<node>`
Root shell on a node

ADMIN (OC ADM)

`oc adm policy add-role-to-user <role> <user>`
Grant role in project

`oc adm must-gather`
Collect cluster data for support

`oc get co`
Cluster operator health