

Openshift Training by Alexander Kolin

Podman, OpenShift CLI (oc), and Git Cheat Sheet

Podman Commands

Container Management

- `podman ps` - List running containers
- `podman ps -a` - List all containers
- `podman run -d --name mycontainer myimage` - Run a container in detached mode
- `podman start mycontainer` - Start a stopped container
- `podman stop mycontainer` - Stop a running container
- `podman rm mycontainer` - Remove a container
- `podman logs mycontainer` - View container logs
- `podman exec -it mycontainer bash` - Execute a command in a running container - with bash similar to ssh

Image Management

- `podman images` - List all images
 - `podman pull myimage` - Pull an image from a registry
 - `podman build -t myimage .` - Build an image from a Dockerfile
 - `podman tag myimage myregistry.com/myimage:latest` - Tag an image
 - `podman commit container-id myimage` - commit container changes to an image
 - `podman push myregistry.com/myimage:latest` - Push an image to a registry
 - `podman rmi myimage` - Remove an image
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OpenShift CLI (oc) Commands

Login and Configuration

- `oc login --token=<token> --server=<server>` - Login to OpenShift
- `oc new-project myproject` - Create a new project
- `oc project myproject` - Switch to a project
- `oc status` - Show project status

Working with Pods

- `oc get pods` - List all pods
- `oc describe pod mypod` - Show detailed information about a pod
- `oc logs mypod` - Show logs of a pod
- `oc apply -f file.yaml mypod` - create a pod/deployment/service...
- `oc delete pod mypod` - Delete a pod
- `oc exec -it pod -- bash` or `-- sh` - Execute a command in a running container - with bash similar to ssh

Deployments and Services

- `oc get deployments` - List all deployments
- `oc get svc` - List all services
- `oc expose svc myservice` - Create a route to a service
- `oc get routes` - List all routes

Scaling and Rolling Updates

- `oc scale deployment myapp --replicas=3` - Scale an application
 - `oc rollout status deployment myapp` - Check rollout status
 - `oc rollout undo deployment myapp` - Rollback to the previous deployment
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Git Commands

Basic Git Commands

- `git init` - Initialize a new repository
- `git clone <repo>` - Clone a repository
- `git status` - Show the status of the working directory
- `git add .` - Stage all changes
- `git commit -m "Message"` - Commit staged changes
- `git push origin main` - Push changes to the remote repository
- `git pull origin main` - Pull latest changes from the remote repository

Branching & Merging

- `git branch` - List all branches
- `git branch mybranch` - Create a new branch

- `git checkout mybranch` - Switch to a branch
- `git merge mybranch` - Merge a branch into the current branch
- `git branch -d mybranch` - Delete a branch

Reverting Changes

- `git reset --hard HEAD~1` - Reset to the previous commit
 - `git revert <commit>` - Revert a specific commit
 - `git stash` - Stash changes temporarily
 - `git stash pop` - Apply the latest stashed changes
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