

Cheat Sheet: Introduction to Containers w/ Docker, Kubernetes & OpenShift

Estimated reading time: 5 minutes

Command	Description
curl localhost	Pings the application.
docker build	Builds an image from a Dockerfile.
docker build . -t	Builds the image and tags the image id.
docker CLI	Start the Docker command line interface.
docker container rm	Removes a container.
docker images	Lists the images.
docker ps	Lists the containers.
docker ps -a	Lists the containers that ran and exited successfully.
docker pull	Pulls the latest image or repository from a registry.
docker push	Pushes an image or a repository to a registry.
docker run	Runs a command in a new container.
docker run -p	Runs the container by publishing the ports.
docker stop	Stops one or more running containers.
docker stop \$(docker ps -q)	Stops all running containers.
docker tag	Creates a tag for a target image that refers to a source image.
docker -version	Displays the version of the Docker CLI.
exit	Closes the terminal session.
export MY_NAMESPACE	Exports a namespace as an environment variable.
for ...do	Runs a for command multiple times as specified.
git clone	Clones the git repository that contains the artifacts needed.
ibmcloud cr images	Lists images in the IBM Cloud Container Registry.
ibmcloud cr login	Logs your local Docker daemon into IBM Cloud Container Registry.
ibmcloud cr namespaces	Views the namespaces you have access to.
ibmcloud cr region-set	Ensures that you are targeting the region appropriate to your cloud account.
ibmcloud target	Provides information about the account you're targeting.
ibmcloud version	Displays the version of the IBM Cloud CLI.
kubectl apply	Applies a configuration to a resource.
kubectl autoscale deployment	Autoscales a Kubernetes Deployment.
kubectl config get-clusters	Displays clusters defined in the kubeconfig.
kubectl config get-contexts	Displays the current context.
kubectl create	Creates a resource.
kubectl create configmap	Creates a ConfigMap resource.
kubectl delete	Deletes resources.
kubectl describe	Shows details of a resource or group of resources.
kubectl expose	Exposes a resource to the internet as a Kubernetes service.
kubectl get	Displays resources.
kubectl get deployments	Lists the deployments created.
kubectl get deployments -o wide	Lists deployments with details.
kubectl get hpa	Lists Horizontal Pod Autoscalers (hpa)
kubectl get pods	Lists all the Pods.
kubectl get pods -o wide	Lists all the Pods with details.
kubectl get services	Lists the services created.
kubectl proxy	Creates a proxy server between a localhost and the Kubernetes API server.
kubectl rollout	Manages the rollout of a resource.
kubectl rollout restart	Restarts the resource so that the containers restart.
kubectl rollout undo	Rollbacks the resource.
kubectl run	Creates and runs a particular image in a pod.
kubectl scale deployment	Scales a deployment.
kubectl set image deployment	Updates the current deployment.
kubectl version	Prints the client and server version information.

Command	Description
ls	Lists the contents of this directory to see the artifacts.
oc get	Displays a resource.
oc project	Switches to a different project.
oc version	Displays version information



Skills Network