

# Kubernetes Cheat Sheet



The Kubernetes command-line tool, `kubectl`, allows you to run commands against Kubernetes clusters.

## Displaying environment information

<code>kubectl version</code>	Prints out the Kubernetes version running on the client and server
<code>kubectl cluster-info</code>	Prints the address of the control plane and cluster services

## Connecting to the managed cluster

<code>az aks get-credentials -n playeconomy -g playeconomy</code>	<p>Gets access credentials for the “playeconomy” cluster in the “playeconomy” resource group.</p> <p>It is an Azure CLI command, rather than a <code>kubectl</code> command, but shown here since it's essential to connect to the cluster.</p>
<code>kubectl config get-contexts</code>	Displays the list of contexts from the kubeconfig file
<code>kubectl config current-context</code>	Displays the current Kubernetes context
<code>kubectl config use-context playeconomy</code>	Sets the current context to the “playeconomy” context in the kubeconfig file

## Creating resources

<code>kubectl create namespace catalog</code>	Creates a new namespace named “catalog”
<code>kubectl create secret generic identity-secrets --from-literal=cosmosdb-connectionstring=[CONN_STRING] -n catalog</code>	Creates a secret named “identity-secrets” in the “catalog” namespace which includes a literal value for the Cosmos DB connection string.
<code>kubectl apply -f .\kubernetes\catalog.yaml -n catalog</code>	Creates the resources declared in the <code>\kubernetes\catalog.yaml</code> file in the “catalog” namespace of the cluster

## Viewing resources

<code>kubectl get pods -n catalog</code>	Lists all pods in the “catalog” namespace
<code>kubectl get pods --all-namespaces</code>	Lists all pods in all namespaces
<code>kubectl describe pods [POD_NAME] -n catalog</code>	Shows details of the specified pod in the “catalog” namespace
<code>kubectl get services -n catalog</code>	Lists all the services in the “catalog” namespace
<code>kubectl get nodes</code>	Lists all nodes
<code>kubectl get secrets -n catalog</code>	Lists all secrets in the “catalog” namespace

kubect! get secret [SECRET_NAME] -n catalog -o yaml	Displays the specified secret, from the “catalog” namespace, sending the output as yaml
kubect! get deployments -n catalog	Lists all deployments in the “catalog” namespace

### Deleting resources

kubect! delete pod [POD_NAME] -n catalog	Deletes the specified pod, which lives in the “catalog” namespace
kubect! delete service [SERVICE_NAME] -n catalog	Deletes the specified service, which lives in the “catalog” namespace
kubect! delete secret [SECRET_NAME] -n catalog	Deletes the specified secret, which lives in the “catalog” namespace
kubect! delete deployment [DEPLOYMENT_NAME] -n catalog	Deletes the specified deployment, which lives in the “catalog” namespace

### Interacting with pods and nodes

kubect! logs [POD_NAME] -n catalog	Dumps the logs of the specified pod, which lives in the “catalog” namespace
kubect! logs [POD_NAME] -n catalog --follow	Streams the logs of the specified pod as they show up
kubect! top pod --all-namespaces	Shows pod metrics across all namespaces
kubect! top node	Shows node metrics