Kubectl (k) Context

Using kubectl context

What is a Context in kubectl?

A **context** in `kubectl` is a named configuration that ties together:

- A cluster

- A user

- An optional namespace

You can see all contexts with:

```
kubectl config get-contexts
```

```
CURRENT      NAME              CLUSTER           AUTHINFO          NAMESPACE
*            minikube          minikube          minikube
             prod-cluster      prod-cluster      admin
             dev-cluster       dev-cluster       dev-user          dev
```

The `*` indicates the current context.

Switching Context

To switch to another context:

```
kubectl config use-context <context-name>
```

Example:

```
kubectl config use-context dev-cluster
```

Now all `kubectl` commands will use the `dev-cluster` context.

Setting Namespace Within a Context (Optional)

If you want to change the **default namespace** for a context:

```
kubectl config set-context <context-name> --namespace=<namespace>
```

Example:

```
kubectl config set-context dev-cluster --namespace=team1
```

Or just override it per command:

```
kubectl get pods -n team1
```

View Current Context

```
kubectl config current-context
```

Delete an unused context

```
kubectl config delete-context old-context
```