

## Application - Commands & arguments

### Commands & arguments in k8s pods

⇒ In the previous lecture, we created a simple docker image that sleeps for a given no. of seconds, we named it "ubuntu-sleeper" & we start it using the docker command

```
docker run --name ubuntu-sleeper ubuntu-sleeper
```

⇒ By default, it sleeps for 5secs, but we can override it by passing a command line argument

⇒ we will now create a pod using this image

```
docker run --name ubuntu-sleeper ubuntu-sleeper 10
```

we start with a blank pod definition template

\* Input the name of the pod

\* Specify the image name

pod-definition.yaml

apiVersion: v1

kind: Pod

metadata:

name: ubuntu-sleeper-pod

spec:

containers:

- name: ubuntu-sleeper

when this pod is created, it creates a container

from the specified image --name ubuntu-sleeper-pod

And the container sleeps for 5 seconds before exiting

image: ubuntu-sleeper

args: ["10"]

Now, if you need the container to sleep for 10 seconds as in the 2nd command, how to specify the additional argument in the pod-definition-file?

Anything that is appended to the docker run command will go into the args property of the pod-definition-file in the form of array like this  
args: ["10"]

Let's try to relate to the docker file we created earlier, the docker file has an 'entry point' as well as 'cmd' instructions specified

The entry point is the command that is run at startup & the cmd is the default parameter passed to the command

```
FROM ubuntu
```

```
ENTRYPOINT ["sleep"]
```

```
CMD ["5"]
```

With the args option in the pod definition file, we override the cmd instruction in the docker file

But, what if we need to override the entrypoint from "sleep" to "imaginary sleep" "2.0" command

⇒ In the docker world, we could run the docker run command with the entry point option set to the new command

```
docker run --name ubuntu-sleeper
```

```
--entrypoint sleep2.0
```

```
ubuntu-sleeper 10
```

The corresponding entry in the pod definition file would be using a command field

The command field corresponds to entrypoint instructions in the docker file



## Pod-definition.yml

apiVersion: v1

kind: Pod

metadata:

name: ubuntu-sleeper-pod

spec:

containers:

- name: ubuntu-sleeper

image: ubuntu-sleeper

→ Command: ["sleep 2.0"]

→ args: ["10"]

To Summarize:-

There are 2 fields that correspond to 2 instructions in the docker file

Command field overrides the entry point instructions

Args field overrides the Command instructions

in the docker file

Remember:-

It is not the Command field that overrides the Cmd instructions in the docker file

To ~~test~~ command to run a container to sleep for 5000 seconds

Command: ["sleep", "5000"]