**A Sample application[Explaining bridge networking]**

* Python based application:
  + Web application
  + Database
* Code: <https://github.com/DevProjectsForDevOps/StudentCoursesRestAPI>
* This application has a python web frontend.
* Create a image by following instructions <https://directdevops.blog/2019/11/02/deploying-the-docker-application-and-mysql-with-volume-support-into-kubernetes-from-code-to-docker-registries-like-acr-ecr-and-then-to-eks-aks/>
* Create a mysql container according to docs
* get the mysql ip address and pass it as environment variable to the python web application
* What is that you need to do
  + Create a bridge network
  + Create a volume and attach it to mysql container
  + Resolve the mysql container by its name
* To do this

git clone https://github.com/DevProjectsForDevOps/StudentCoursesRestAPI.git

cd StudentCoursesRestAPI

docker image build -t scr:latest

docker network create -d bridge scr\_bridge

docker volume create scr\_db

docker container run -d --name mysql -e MYSQL\_ROOT\_PASSWORD=password -e MYSQL\_DATABASE=test -e MYSQL\_USER=directdevops -e MYSQL\_PASSWORD=directdevops --network scr\_bridge -v scr\_db:/var/lib/mysql mysql:5.6

docker container run -d --name mypythonapp -e MYSQL\_SERVER=mysql --network scr\_bridge -P