NO→LATENCY

Dockers

- ✓ Virutalization Technology to package application code and deployed as an independent unit
- ✓ Code becomes system agnostic and hence easier to maintain and scale
- ✓ Docker image is deployed to a container registry as a container where each container has its own environment
- ✓ Each Docker runs a specific task and multiple docker images run together and can be potentially scaled

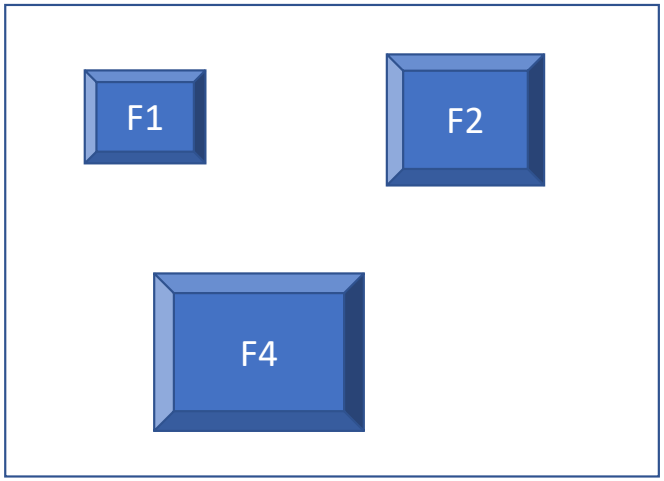
- ✓ **Steps in building and executing a docker container :**

1. Develop the application in your local system
2. Build the docker image along with the dependent libraries
3. Execute the docker image in your local system
4. Push the image to a docker registry

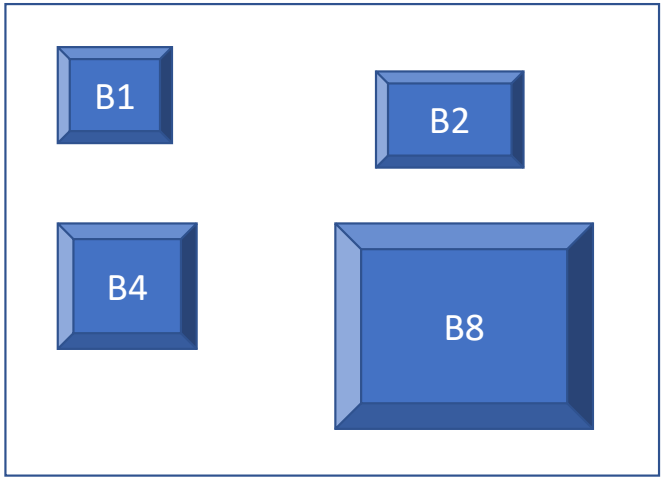
NO→LATENCY

App Engine Scaling

Automatic Scaling – Instance Types



Manual Scaling – Instance Types



NO→LATENCY

Dockers

- ✓ **Step-1 –** Develop the ML Model locally
- ✓ **Step-2 –** Build and Run the docker Image locally
- ✓ **Step-3 –** Push the Image to container registry on GCP
- ✓ **Step-4 -** Pull the Image from container registry to Local system

NO→LATENCY

Cloud Run

- ✓ Fully Managed Compute Environment
- ✓ Combines serverless and containerization
- ✓ Cloud Run is for **Stateless Applications**
- ✓ Scales automatically depending on load/traffic
- ✓ Pay for what you use