**Cloud Computing Lab 2**

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**publishing-ports**

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The above command uses port 8080 as the host port (where my device receives the traffic) and 80 for the container port where the container is listening for connections

Therefore any traffic sent to port 8080 on my device is forwarded to port 80 on the container

**Overriding container defaults**

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Ran 2 commands to create two instances of the postgres database listening on ports 5432 and 5433

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Create a network with the first command and list all the networks to see that mynetwork exists

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Connect the postgres to the network

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This command runs a Postgres container, sets an environment variable and overrides the default startup commands

**Persisting container data**

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Start the postgres container

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Connect to the postgres container

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Inset a table into the postgres database

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Select all from tasks to ensure the rows have been entered

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Stop and remove the database container

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Start a new container with the persisted data

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Observe that the data persisted

**Sharing local files with containers**

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Start a container using httpd

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Delete the container

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Make a new directory called public\_html

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Add code to new index.html file within new directory



Create the new instance wit the new folder inside

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Access the file through docker

**Multi-container applications**

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Build the nginx and web images



Create a network for the containers to speak through

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Run the redis container

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Start the web containers



Start the nginx container

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Observe running containers





The number of visits is counted between both web containers