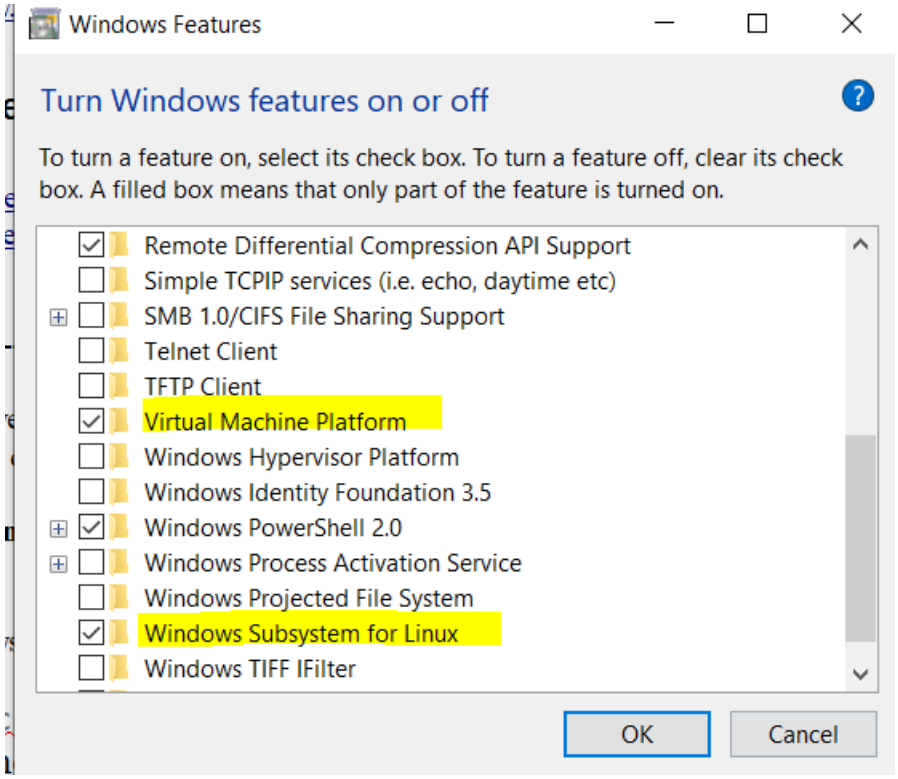
How to set up Docker Containers for micro services in Windows 10

Docker Installation in Windows 10 home Build >=19

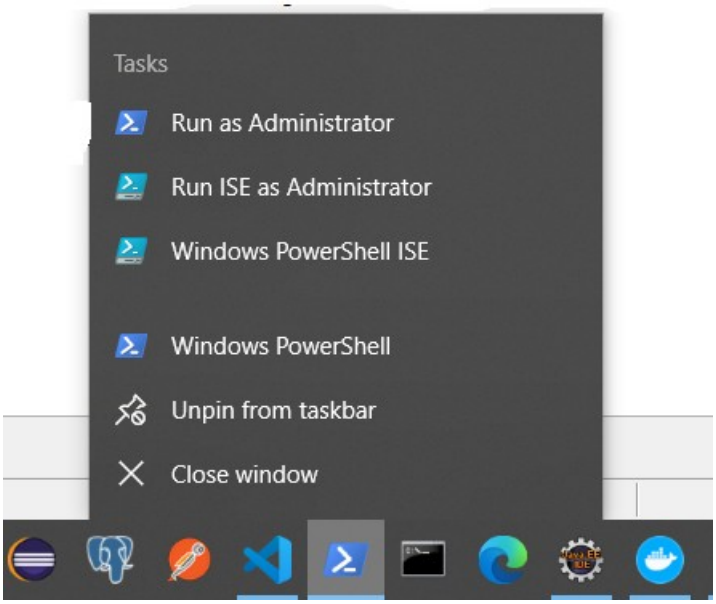
1- Search for Turn Windows features on or off ,Enable both '**Virtual Machine Platform**' and '**Windows Subsystem for Linux**'



2- Follow the steps in the below link to install Docker Desktop in Windows 10

https://www.padok.fr/en/blog/docker-windows-10

3- Always open Windows Powershell and Docker Desktop as **Run as Administratior**



Some Important commands used in windows poweshell

show all containers

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docker ps -a

show all running containers

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docker ps

show all images

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docker images

remove container

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docker rm ubuntu

remove image

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docker rmi ubuntu

Build Images

(if Dockerfile is in current directory)

docker build . -t config-server:1

(if Dockerfile-configserver is in current directory)

docker build --file=Dockerfile-configserver --tag=config-server:2 --rm=true .

Create Container from image

(random port -P) here myhelloimage:first is the image name and container name is myhello, -d is detached mode to run in background

docker run -itd --name "myhello" -P myhelloimage:first

docker run -itd --name=Profilemanagement --publish=8030:8030 profilemanagement:latest

docker run -itd --name=config-server --publish=8888:8888 --volume=config-repo:/var/lib/config-repo config-server:latest

To access container linux shell to run linux command inside

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docker exec -t -i eureka-server sh

Run docker compose

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docker-compose up -d --build

Stop docker compose

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docker-compose down

View the logs of microservice commonservices

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docker-compose logs -ft commonservices

Remove Volume

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docker volume rm $(docker volume ls -q)

Remove forcefully container

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docker rm --force commonservice2

VOLUME -store configuration external

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docker volume create --name=config-repo

Docker network

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docker network ls