Questions answered through chat window during session #4 on 07 Feb 2022		
Question Asked	Answer Given	
is professor running model on docker	Running on DGX server but wsa pulled from remote NVIDIA	
created in dgx server	NGC container repository	
How to use docker pull command in windows	Docker pull command is always the same. If you have Docker	
	installation on Windows you can use same pull command.	
We can create different environment for	Yes one way to solve this is via using environment like	
different project right?	virtualenv. But virtualevn still has some limitations. Containers	
	have much more which is explained in next slides like it	
	encapsulates all dependencies and you can package it and shift	
	to say other machines	
i did not receive any link for downloading	Please look at the announcement channel in slack. Please	
dockers yet	follow slack channel for all annoucement. ,As has been	
	indicated multiple times, no mail are going to be sent. As has	
	been indicated at the begining of the session, please join slack	
	and monitor the announcement channel regularly	
can the isolated virtual machines be with the	It can be same type or different type OS also	
same OS type? Like, both Ubuntu, or both		
is the docker helping with segmentation of	It is basically allowing you to run things on your machine without	
stuff on our device? or is it taking the	explictly installing it. It still uses your machine when you run it. It	
command and running it on a separate	just pulls from the remote repository	
I am getting the error message "Docker	Please post on slack on steps followed. The TA will help you	
desktop failed to start" . Kindly help	answer the queries.	
Docker running in DGX. what is it?	The instructor is showing how to pull docker conatiner from	
	remote repository and running on a server DGX which has 8	
	NVIDIA GPU	
We can use multiple environments to make	Yes you may use things like conda or virtualenv. But conatienr	
multiple versions work right?	does have some addional advantage. Like once encapsulated	
	all dependencies you can host and pull a conatiner to another	
	machine as well.	
Where is it being pulled from? Like do we	There are multiple repositories from where you can pull from.	
have to have internal files with ubuntu os?	Like Docker Hub or Nvidia NGC. You can give the path and it	
	will pull from there. By default docker pulls from Docker Hub	
what is daemon and how is it related to -d?	Daemon means run in the conatiner in background so that you	
	get your shell back and do other operation till Docker finishes its	
	job. It is like running any other process as daemon	
I followed all the commands and i was able	can you try docker exec -it ubuntu:18.04 . It should ideally	
to follow. But after % docker exec -it ubuntu1	download the ubunutu 18.04 and execute it	
/bin/bash it shows "Error no such		
container:ubuntu1". Please help what did i		
do wrong		

How is a docker different from the available	Cloud primarily uses VM . When you launch a job on cloud it
cloud services?	creates a VM and gives you a fresh instance. Docker conatiners
	are something you can pull in your machine and run on your
	machine. Cloud can also run containers but I believe it is a
	different topic all together
Can the host show us where these images	Docker has fixed Icoation to store these images. You can
are installed?	change the PATH of this installation if required. Like on linux
	idealy it should be at /var/lib/docker/overlay2
is an image the same as a .iso installer? so if	Docker has its own way of creating an image. You cannot have
i have the .iso of an os in	a tradional ISO and just use it .
/var/lib/docker/overlay2 will it be acessible by	
docker (on linux)?	
"A: can you try docker exec -it ubuntu:18.04"	this download the remote repositoy to your machine. The name
is this how we install an image into the	of repository that you are pulling is ubuntu version 18.04 . You
docker repository?	can downlaod many other repositories for all Al frameworks
acone. repeaterly.	
I'm getting below error while opening docker	Please post on slack with steps followed. TA will answer on
app	slack
"access to the path	
What does the pulled image contain? Is it	It is self suffient and contains all the major OS files required and
just a part of the full OS?	needed to run
Does the container always login as root?	You can change to other user as well. By default it is root.
Why is this?	
Does the docker container have network	There was ways to expose docker network interfaces and
interfaces configured by default? If not, what	configure them. You can also ask docker to use host OS
changes need to be made?	network interface liek saynetwork=host with docker run
Does building layer by layer optimize the	Layer by layer is mroe of checkpointing. Like I can take a base
size of the resulting image? If yes, how?	OS and add a layer of say insatlling a sklearn package. Over
	which I can install another layer of equivalent GPU package like
	RAPIDS. So it brings in modularity. The more layers it has the
	Imore size it will take
how to get the id ubuntu1?	you can get conatiner id by running "docker ps"
Sir if i am working is one docker than can	
somebody also use the same docker at the	
same time in another system.	
What is Cuda toolkit? Is it for data	CUDA is GPU architecture by NVIDIA. You can code GPU using
processing?	CUDA toolkit. DAta processing and frameworks like PyTorch,
	TensorFlow internally call CUDA toolkit libraries to run on GPU
le deaker like e sit repositor 2	Docker is a constiner which can be heated in repositor (19)
Is docker like a git repository?	Docker is a conatiner which can be hosted in repository like
	Docker Hub or NVIDIA NGC. Docker Hub acks like a repository
	like git but for containers.

If we install the tensorflow python package	You may install manually tensorflow. But it is error prone like you
and install tensorflow container using this	may want to insatll dependencies which are missing. What if
docker implementation. What is the	tomorrow you want another version of tensorflow or want to shift
difference?	to PyTorch . Docker are packages which provide you isolations
	and keep your system clean and isolate dependencies. Also you can save state of conatiner and trasfer to another machine by just pulling it. Same cannto be done in case you manually install in one machine
what docker ps command means?	It shows list of all running docker containers if any
sir could you please share the docker	which conatiner are you referring to? All the steps mentioned in
container link on the slack platform?	the demo will be shared in slack so that you can try in your own
	machines later.