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| **DOCUMENT RULES:** | |
| **Task Number / Name:** | **Docker Containers** |
| **Task name & column name should be written:** | **Bold (CTRL+B)** |
| **Commands should be written in the after # sign:** | *Italic (CTRL+I) #hostname* |
| **Output photo should be cropped or compressed:**  **Photo could be more than one:**  **If you need extra lines, add the line next after it:** | ***Description photo should be with title bar (CTRL + I + B)*** |
| **All other text should be written:** | Standard |
| **Font name and text size:** | Calibri and 9 |
| **Group name:** | Dev\_ops\_ |
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| Pull Ubuntu Image with latest version.  Docker pull ubuntu:latest |  |
| To see list of all available images instruct docker with below command.  docker images |  |
| Run container from Ubuntu image |  |
| To run container from Ubuntu image, instruct docker with command:  docker run ubuntu:latest |  |
| Now check whether container is running or not?  docker ps |  |
| You will find that container is in stop mode.  docker ps -a |  |
| run container.  docker run -t -i --name=tutorial ubuntu:latest |  |
| Install golang and dependencies inside containers |  |
| Now, download or install golang programming language.  wget <https://go.dev/dl/go1.18.3.linux-amd64.tar.gz> |  |
| Run the below command to extract files. | tar xvf go1.18.3.linux-amd64.tar.gz |
| Move this go/ directory inside /usr/local/  mv go/ /usr/local/ |  |
| *go version* |  |
| Write hello world program |  |
| Crete new directory  mkdir hello  Create file with name main.go  vim main.go  paste the below code,  package main  import "fmt"  func main() {  fmt.Println("Hello, World!")  } |  |
| Execute the program --> go run main.go |  |
| Create image manually from stopped Containers |  |
| To stop container, write below command inside your container. | Exit |
| Is there any way to come out of container without stopping it ? Yes, | press "ctrl p+q" at the same time |
| Is there any way to go inside any running container? Yes, | docker attach tutorial |
| To create Image from it. Run the below command: | docker commit tutorial tutorial-image |
| Check whether "tutorial-image" is present or not: | docker images |