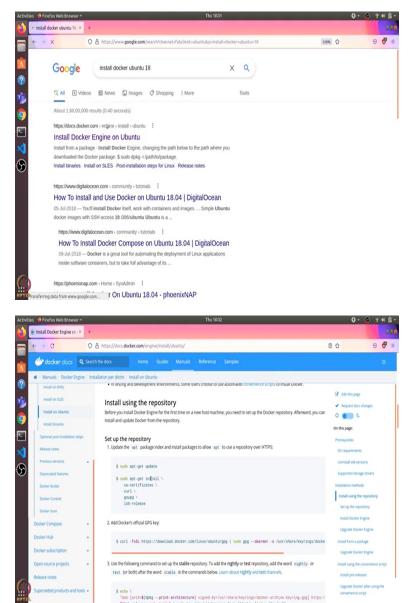
## Design and Engineering of Computer Systems Professor. Mythili Vutukuru Computer Science and Engineering Indian Institute of Technology, Bombay Week 3, Tutorial 2 Docker Installation

Hi students in this video we will see how to install Docker in Ubuntu 18.

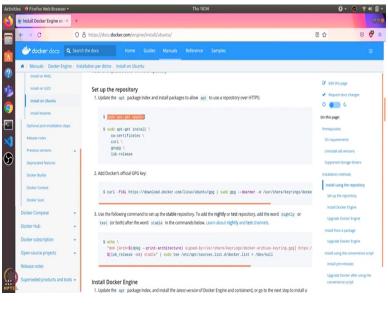
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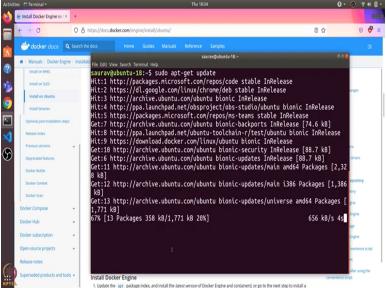


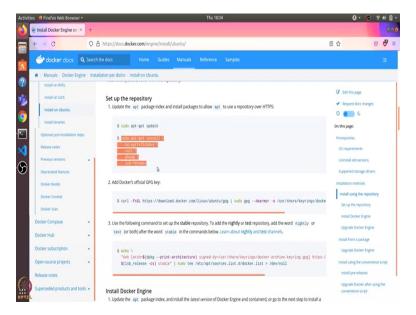
So, I will open the browser and just type in install Docker Ubuntu 18 and it gives me this stocks.docker link and I will click on this link. So, it shows various installation methods I will

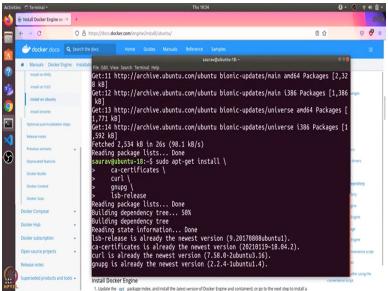
follow the first method which is setting up the repository and then installing it. So, I will open a terminal and run this command one by one.

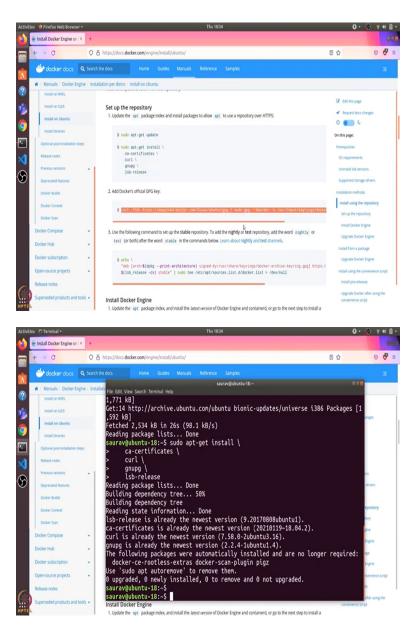
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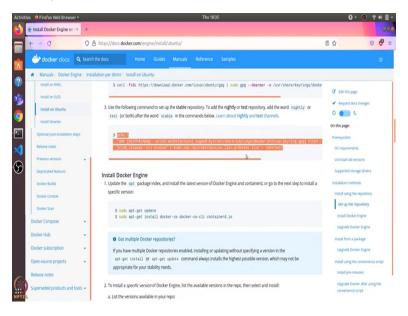


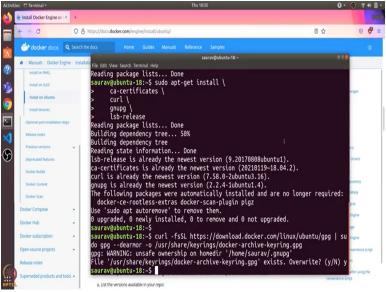


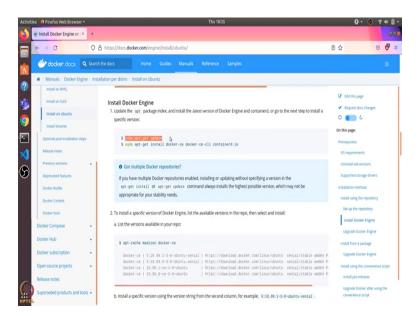


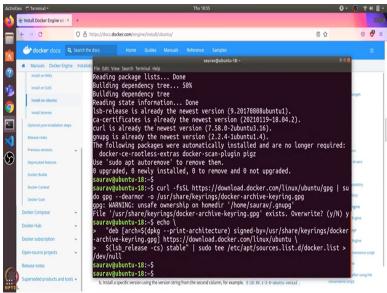
Let us first run sudo apt-get update. This will update any existing packages. All right now let us run the second command. And now I will run this command to add Docker's official gpg key, gpg is gnu privacy guard. Because I have already added the key it is asking me whether I want to override the file. So, I will just type y and press enter.

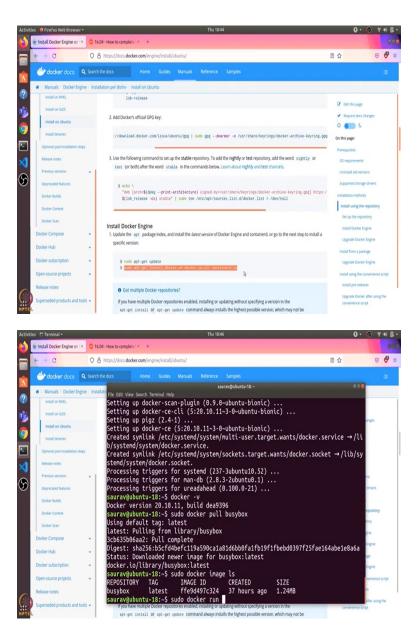
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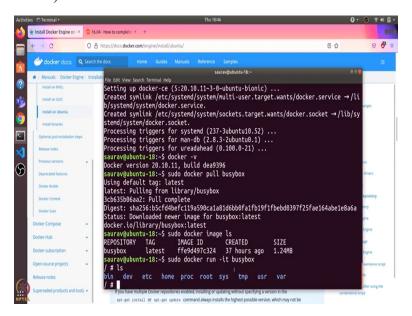


Then I will run this command to set up the stable repository. And then let us run this update command once again. So finally let us run this apt-get install Docker command to install the Docker. It will use around 400 mb of disk space. So I will type in y and press enter. Let us wait for the installation to finish. All right. So now that the installation is finished let us check the Docker version using Docker minus v command.

So, it shows that the Docker was in 20.10. And now let us see how can we start a container using the Docker. So, to start a container first of all we need to pull some image using which we can start a container. So, we can pull any Docker image using Docker pull command. So, for instance, let us pull the busy box image I will use sudo Docker pull busy box to pull the busy box

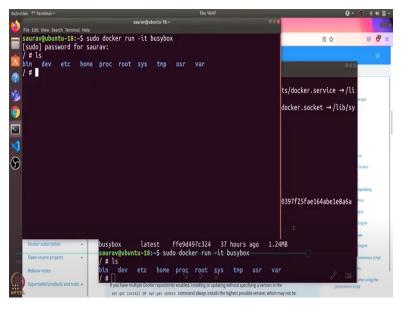
image and by default it will pull the latest image. So, once the pull is complete we can see what all images are there using Docker image LS command so you can see that there is just one image.

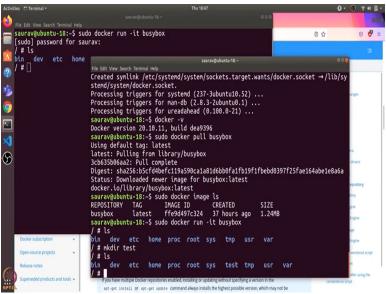
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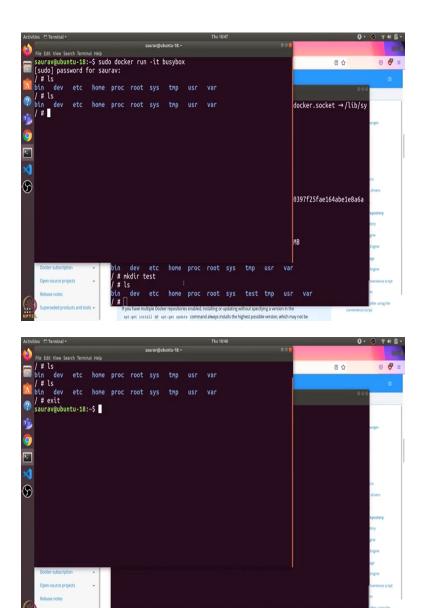


And now let us see how can we start a container using this image. We can use the Docker run command to run a container and I will use the -it option to start an interactive shell. And I will now give it the image name. So, we have an interactive shell running using this busy box image. Let us see what all files are there so it has all the folders which are there in the root folder of a Linux system.

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Let us open one more terminal and start another container again using the same image. So, now we have two containers running and what if I create a new folder here would this folder be visible in this container as well and the answer is no. Because both these containers have isolated file systems we can exit this container using the exit command. So, that is it for this video thanks and have a nice day.