
Docker Assignment 5

1. How big can Docker containers get? Are there any prerequisites for this?

Containers can be scaled to hundreds of thousands or even millions of them running in parallel. containers require the memory and the OS at all the times and a way to use this memory efficiently when scaled.

2. What operating systems does Docker support?

Docker lets us build and run containers on Linux, Windows and macOS.

3. How can I figure out what a Docker container's state is?

By default, the `docker ps` command displays the current state of all the Docker containers.

4. How do you unpause a Docker container?

To unpause the container, we use “`docker unpause`” command

5. Is it possible for a container to restart on its own?

Yes container restarts on its own by mentioning some condition like when to restart.

6. Is it better to use the RM command to delete the container or to stop it by removing it?

Its always better to stop the container and then remove it using the remove command.

7. Is it a smart idea to use Docker to run stateful applications?

The problem with statefull docker aplications is that they by default store their state (data) in the containers filesystem. Once we update our software version or want to move to another machine its hard to retrieve the data from there.

8. Will cloud overtake the concept of containerization?

May or may not be, it is a business, whoever provides a good service they may gain popularity. Of Course no service is permanent one comes after another. Docker containers are gaining popularity but at the same time, Cloud services are a good competitor.

9. How do you load a pre-exported Docker image onto another Docker host using a command?

In order to transfer a Docker image from one server to another, what we need to do is first export the image to a file, then copy that file over from your current server to the new one using `scp` or `rsync` and finally load the image to your new server.
