**HOW TO GIVE CONNECTIVITY BETWEEN DOCKER AND ECS :**

>>Directly we can’t deploy the packages like jar or war or rpm packages from jenkins to ECS ( Elastic Container Service ) if we want to deploy the packages from jenkins to ESC then we have to convert that package into image format and we can deploy into ECS

We have to write one script to deploy the packages from jenkins to ecs in that script only we will write docker file to create package into image format.

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**1)What are the differences between the ‘docker run’ and the ‘docker create’?**

The most important difference that can be noted is that, by using the ‘docker create’ command we can create a Docker container in the Stopped state.

We can also provide it with an ID that can be stored for later usages as well.

This can be achieved by using the command ‘docker run’ with the option –cidfile FILE\_NAME as like this:

‘docker run –cidfile FILE\_NAME’

**2)What are the various states that a Docker container can be in at any given point in time?**

There are four states that a Docker container can be in, at any given point in time. Those states are as given as follows:

* Running
* Paused
* Restarting
* Exited
* Dead

**3)Can you remove a paused container from Docker?**

No it is not possible because container is there in paused stage so if i want to delete container then it should be stopped stage or else we can delete forcefully using the command $docker rm -f container-id.

**4)What is docker image ?**

Docker image is nothing but it is just like set of files we will create docker image from docker file only,

**5)Docker Vs VM (Virtual Machine)**

**Docker :**

-->we can install multiple images but it will accupy the space for bin/lib files how much it requires that much only.

--> Less resources are used

-->Creation of docker is very quick

**Virtual Machine :**

--> We can run multiple OS in one physical system but it will occupy the space for how much os requires that much it will occupy.

--> Need More resources

-->Take time to create virtual machine.

### 6)What is the lifecycle of a Docker Container?

This is one of the most popular questions asked in Docker interviews. Docker containers have the following lifecycle:

* Create a container
* Run the container
* Pause the container(optional)
* Un-pause the container(optional)
* Start the container
* Stop the container
* Restart the container
* Kill the container
* Destroy the container

### 7) ****What is Docker Machine?****

Docker machine is a tool that lets you install Docker Engine on virtual hosts.

### 8) ****How do you get the number of containers running, paused and stopped?****

You can use the following command to get detailed information about the docker installed on your system.

$ docker info

### 9)****If you vaguely remember the command and you’d like to confirm it, how will you get help on that particular command?****

The following command is very useful as it gives you help on how to use a command, the syntax, etc.

$ docker --help

The above command lists all Docker commands. If you need help with one specific command, you can use the following syntax:

$ docker <command> --help

### 10) ****Suppose you have 3 containers running and out of these, you wish to access one of them. How do you access a running container?****

The following command lets us access a running container:

$ docker exec -it <container id> bash

The exec command lets you get inside a container and work with it.

### 11) ****How to delete an image from the local storage system?****

The following command lets you delete an image from the local system:

$ docker rmi <image-id>

### 12) ****Do you know why****docker system prune****is used? What does it do?****

$ docker system prune

The above command is used to remove all the stopped containers, all the networks that are not used, all dangling images and all build caches. It’s one of the most useful docker commands.

### 13) ****Will you lose your data, when a docker container exists?****

No, you won’t lose any data when Docker container exits.

### 14)What platforms does docker run on?

This is a very straightforward question but can get tricky. Do some company research before going for the interview and find out how the company is using Docker. Make sure you mention the platform company is using in this answer.

Docker runs on various Linux administration:

* Ubuntu 12.04, 13.04 et al
* Fedora 19/20+
* RHEL 6.5+
* CentOS 6+
* Gentoo
* ArchLinux
* openSUSE 12.3+
* CRUX 3.0+

It can also be used in production with Cloud platforms with the following services:

* Amazon EC2
* Amazon ECS
* Google Compute Engine
* Microsoft Azure
* Rackspace

### 15) ****Can you remove a paused container from Docker?****

The answer is no. You cannot remove a paused container. The container has to be in the stopped state before it can be removed.

### 16) ****Can a container restart by itself?****

No, it’s not possible for a container to restart by itself. By default the flag -restart is set to false

### 17) ****How many containers can run per host?****

There can be as many containers as you wish per host. Docker does not put any restrictions on it. But you need to consider every container needs storage space, CPU and memory which the hardware needs to support. You also need to consider the application size. Containers are considered to be lightweight but very dependant on the host OS.

### 18) ****How will you monitor Docker in production?****

Docker provides functionalities like docker stats and docker events to monitor docker in production. Docker stats provides CPU and memory usage of the container. Docker events provide information about the activities taking place in the docker daemon.