**Sample Questions Set 1**

Q1. Run the following command on your Linux VM and answer the following questions: (4 points)

*sudo docker run -it -d ubuntu bin/bash*

1. Run the above command with *-i* option and explain what happens.

**Keep STDIN open even if not attached, can still type command**

1. Run the above command with *-t* option and explain what happens.

**Allocate a pseudo-TTY**

1. Run the above command with *-d* option and explain what happens.

**Run the container in the background, need go inside to type command**

1. Run the above command with */bin/bash* option and explain what happens.

**Launch the interactive mode**

Q2. What are the differences between *docker start* and *docker exec*? (1 point)

**docker exec executes a command on a running container.**

**docker start creates a temporary container, executes the command in it and stops the container when it is done.**

Q3. What happens when you execute run *nginx* container with *-p 8080:80* option? (1 point)

**Links to the container’s port(80) with the host port(8080)**

Q4. What can you do with *docker attach?* (1)

**docker attach <ContainerName>**

**Use docker attach to attach your terminal's standard input, output, and error (or any combination of the three) to a running container using the container's ID or name. This allows you to view its ongoing output or to control it interactively, as though the commands were running directly in your terminal**

**Attach local standard input, output, and error streams to a running container**

Q5. How can you *ssh* into a docker container? (2)

**Step1: installing and enabling the SSH service**

**Step 2: Get IP Address of Container**

**sudo docker inspect -f "{{ .NetworkSettings.IPAddress }}" container\_name**

### Step 3: SSH Into Docker Container

Ping the IP address to make sure it’s available

Example: ping –c 3 172.17.0.2

Use the SSH tool to connect to the image:

Example: ssh root@172.17.0.2s