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Grade	4.00 out of 5.00 (80%)

Question 1

Correct

Mark 1.00 out of 1.00

Select the **FALSE** statement:

- ☐ A. Containerization is a lightweight virtualization technology that allows you to run applications in isolated environments called containers
- ☐ B. Docker is a popular containerization platform that simplifies the packaging and deployment of applications
- ☐ C. Amazon ECS is a highly scalable and fully managed container orchestration service
- ☒ D. Docker images are the same as virtual machines ✓

Your answer is correct.

Statement D is false because Docker images and virtual machines are fundamentally different technologies. Docker images are lightweight environments that share the host operating system. Virtual machines, on the other hand, are complete operating systems that run on top of a hypervisor. This makes Docker images more efficient than virtual machines, but it also means that they are not as isolated.

The correct answer is: Docker images are the same as virtual machines

Question 2

Correct

Mark 1.00 out of 1.00

Match the following tools and platforms with their features:

Column 1	Column 2
a. GitHub	i. A code editor optimized for building and debugging software applications
b. Amazon EC2	ii. A full-fledged, browser-based integrated development environment on a virtual machine
c. VSCode	iii. A web service that provides resizable computing capacity in cloud
d. GitHub Codespaces	iv. A code hosting platform for version control and collaboration

- ☐ a-ii, b-i, c-iii, d-iv
- ☐ a-ii, b-iii, c-i, d-iv
- ☒ a-iv, b-iii, c-i, d-ii ✓
- ☐ a-iv, b-i, c-iii, d-ii

Your answer is correct.

- GitHub: A code hosting platform for version control and collaboration
- Amazon EC2: A web service that provides resizable computing capacity in cloud
- VSCode: A code editor optimized for building and debugging software applications
- GitHub Codespaces: A full-fledged, browser-based Integrated Development Environment (IDE) on a virtual machine

The correct answer is: a-iv, b-iii, c-i, d-ii

Question 3

Correct

Mark 1.00 out of 1.00

Match the following Docker objects with their definitions/features:

Column 1	Column 2
a. Docker Container	i. It is the default registry where Docker looks for images
b. Docker Image	ii. Running instance of a docker image
c. Docker Hub	iii. Lightweight, stand-alone, executable software packages that include everything needed to run a piece of software

- ☐ a-i, b-ii, c-iii
- ☐ a-ii, b-i, c-iii
- ☐ a-iii, b-i, c-ii
- ☒ a-ii, b-iii, c-i ✓

Your answer is correct.

Docker Image: Lightweight, stand-alone, executable software packages that include everything needed to run a piece of software.

Docker Container: Running instance of a docker image.

DockerHub: It is the default registry where Docker looks for images.

The correct answer is: a-ii, b-iii, c-i

Question 4

Correct

Mark 1.00 out of 1.00

Select the **False** statement(s):

1. An image becomes a container when it runs on Docker Engine.
2. Containers are isolated from each other and the host system, but can communicate through well-defined channels.
3. A container becomes an image when it runs on Docker Engine
4. Containerization is a process to make applications portable and consistent across different environments
5. We can run only one container using a single image

- ☐ Both 2 and 3
- ☐ Both 1 and 5
- ☐ Only 3
- ☒ Both 3 and 5 ✓

Your answer is correct.

True statements:

- An image becomes a container when it runs on Docker Engine.
- Containers are isolated from each other and the host system, but can communicate through well-defined channels.
- Containerization is a process to make applications portable and consistent across different environments

We can run multiple containers using a single image.

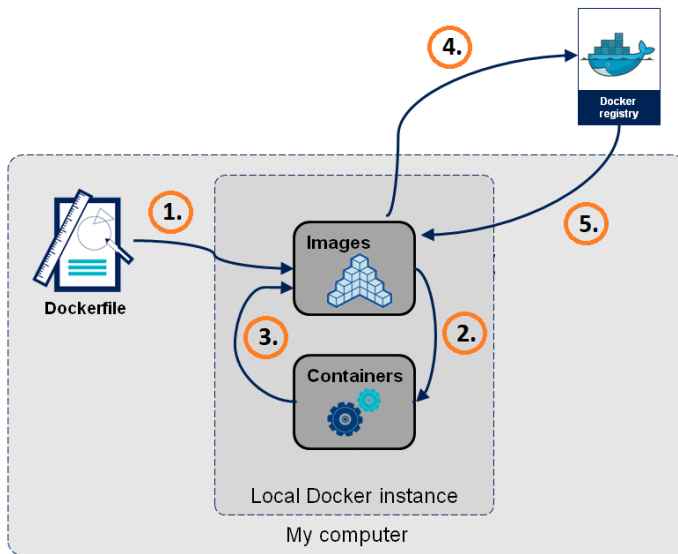
The correct answer is: Both 3 and 5

Question 5

Incorrect

Mark 0.00 out of 1.00

Q.5. Select the correct option that list the docker commands to be used at particular places shown in the figure below:

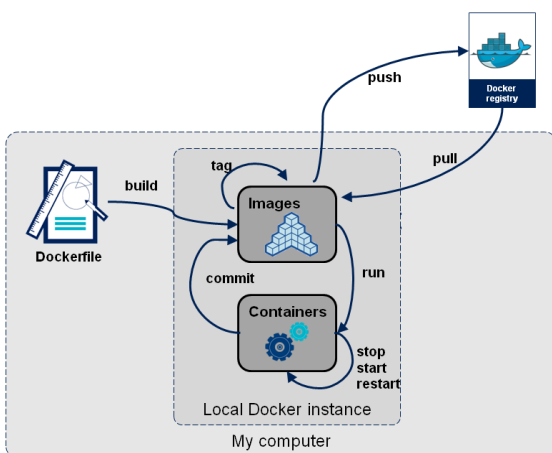


- ☐ 1 - docker run, 2 - docker start, 3 - docker commit, 4 - docker push, 5 - docker pull
- ☐ 1 - docker build, 2 - docker run, 3 - docker commit, 4 - docker push, 5 - docker pull
- ☐ 1 - docker build, 2 - docker start, 3 - docker commit, 4 - docker tag, 5 - docker pull
- ☒ 1 - docker build, 2 - docker run, 3 - docker tag, 4 - docker push, 5 - docker pul ✖

Your answer is incorrect.

(See the figure at below also)

- docker build: Building an Image using a Dockerfile
- docker run: Start a new container using a docker image
- docker commit: Commit a container's file changes or settings into a new Image
- docker push: Pushing a custom Image to Docker Registry
- docker pull: Pulling an Image from Docker Registry



The correct answer is: 1 - docker build, 2 - docker run, 3 - docker commit, 4 - docker push, 5 - docker pull