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| **Nom : DIA Lauboudou**  **Date : 23/05/2024**  **Aquis /Non Aquis** |

Evaluation anglais devOps

1/what is "docker" used for?

Docker is a platform and set of tools designed to make it easier to create, deploy, and manage applications using containers. Containers are lightweight, portable, and self-sufficient units that package software and its dependencies, allowing applications to run reliably across different environments.

2/How can the client communicate with the daemon?

The Docker daemon (dockerd) listens for Docker API requests and manages Docker objects such as images, containers, networks, and volumes. A daemon can also communicate with other daemons to manage Docker services.

The client communicate with the daemon using the Docker Remote API, which is exposed through various interfaces such as the command-line interface, SDKs, RESTful API, Unix socket, and TCP socket. These communication channels provide flexibility and interoperability, allowing users to interact with Docker in a way that best suits their needs and preferences.

3/ what is a container image?

A container image is a template with instructions for creating a Docker container. Often, an image is based on another image, with some additional customization. You might create your own images or you might only use those created by others and published in a registry like Docker Hub.

Note that docker container cannot be created without docker image.

4/ where can you find docker images?

Docker images are available in Docker registries, which are centralized repositories where users can share and download Docker images. The most popular Docker registry is **Docker Hub**, but there are also other public and private registries available for storing and distributing Docker images.

In addition to **Docker Hub**, there are other public registries where you can find Docker images.

**Examples of image registries:**

* Google Container Registry
* Amazon Elastic Container Registry (ECR)
* Microsoft Container Registry (MCR)

5/ What does 'DevOps' mean ? And what is it for?

6/ -What does “IAC” stand for (mean) in DevOps?

-Give an explanation

Infrastructure as Code is a method to provision and manage IT infrastructure through code and automation.

Furthermore is a foundational practice in DevOps that promotes automation, consistency, scalability, and collaboration in managing infrastructure resources. By treating infrastructure configurations as code, organizations can improve efficiency, reduce risk, and accelerate the delivery of software applications.

7/ what is “Ansible” known for?

Ansible is known for its simplicity, flexibility, and powerful automation tool capabilities used for configuration management, application deployment, and orchestration in IT environments. It is widely used by DevOps to automate repetitve tasks, instructions and IT operations.

8/what is jenkins ?

Jenkins platform is an open-source automation server widely used for building, testing, and deploying software projects. It facilitates continuous integration (CI) and continuous delivery (CD) pipelines, allowing development teams to automate various aspects of the software development lifecycle.

Jenkins is a popular choice for DevOps development teams, help deliver high-quality software more efficiently and reliably.