Benefits of Docker

Faster and Easier configuration: Docker containers help to deploy and test applications in a drastically reduced amount of time and with fewer resources than if an entire database infrastructure had to be installed on a computer for it.

Application isolation: Docker provides containers that aid developers in creating applications in an isolated environment. This independence allows any application to be created and run in a container, regardless of its programming language or configuration required.

Increase in productivity: These containers are portable, self-contained, and they include an isolated disk volume so you can transport highly protected information without losing sight of what's inside as the container is developed over time and deployed to various environments.

Services: Services are an abstraction layer to make it easier for users to access the various orchestration systems. It serves as a gateway from higher-level formats such as OpenStack, NFV, or management software into the Swarm API. Each service record lists one instance of a container that should be running, and Swarm schedules them across the nodes.

Security Management: Open-source software saves sensitive information into the cloud and allows people to give access to certain things such as open-source software platforms, like the one you may use that can create secret passes, etc.

Rapid scaling of Systems: Containers don't rely on their host configuration, rather they only rely on their contents and thus will run correctly regardless of what operating system or kernel they're running on

Better Software Delivery: The containers that make up the best software delivery system as it is one of the best and safest software delivery systems available at this moment. These containers are portable, self-contained, and they include an isolated disk volume to transport highly protected information.

Software-defined networking: With the CLI (Command Line Interface) and Engine, you are able to define isolated networks for containers. In addition to this, designers and engineers can shape intricate network topologies, plus easily define them in configuration files also.

Has the Ability to Reduce the Size: The size of an operating system is directly proportional to the number of applications installed in the system. Being a comparatively smaller footprint, containers will help to reduce the number of applications, and hence, the OS can be comparatively smaller.