**Docker**

**What is a container?**

A Docker container is an open-source software development platform. Its main benefit is to package applications in containers, allowing them to be portable to any system running a Linux or Windows operating system. A Docker container image is a small, standalone software package that contains everything needed to run a program, including code, runtime, system tools, system libraries, and settings. Container technology allows for a much larger scale of applications in virtualized environments, because of the efficiencies of virtualizing the OS. In DevOps and testing, the applications can be built and tested much more quickly.

**Docker containers that run on Docker Engine:**

**Standard**: Docker created the industry standard for containers, so they could be portable anywhere

**Lightweight:** Containers share the machine’s OS system kernel and therefore do not require an OS per application, driving higher server efficiencies and reducing server and licensing costs

**Secure:** Applications are safer in containers and Docker provides the strongest default isolation capabilities in the industry