**Agile** - Agile is a software development methodology that is often encapsulated in various frameworks (Scrum, Extreme Programming, Feature-Driven Development (FDD). Its focus is on constant iteration and implementation of the software development lifecycle (Requirements, Model, Code, Test) . It enables constant update and collaboration between software teams and the customer.

Source: <https://www.agilealliance.org/agile101/>

**Waterfall** - Waterfall is a (software) development methodology that focuses on a sequential plan set into action from a starting set of conditions. Waterfall is used to ease implementation, as all requirements are gathered from a customer from the very beginning. It is often used in government work where requirements must match strict guidelines and restrictions.

Source: <https://www.projectmanager.com/software/use-cases/waterfall-methodology>

**Cloud Computing** - Cloud computing is a modern approach to delivery of computing services. It includes a wide array of services, such as storage, databases, networking, and software all delivered over the internet. Cloud computing’s power realize on the ability to offer innovative and flexible techniques to scale a solution to any demand

Source: <https://azure.microsoft.com/en-us/overview/what-is-cloud-computing/>

**Containerization** - Containerization is a process that is taken to bundle an application with all necessary dependencies (files, libraries, etc..). This is done to make deploying fast and bug free across multiple platforms

Source: <https://hackernoon.com/what-is-containerization-83ae53a709a6>

**Docker** - Docker is an application that allows for the deployment of containerized applications. It allows for the simplification of a workflow, while still maintaining a developer’s freedom to provide specific tools per a given use case.

Source: <https://www.docker.com/why-docker>

**Lambda** - Lambda is an AWS service that offers serverless computing to users at a very affordable price. Lambda offers scalability in both memory and usage, to provide a cloud based solution to running small applications.

Source: <https://docs.aws.amazon.com/lambda/latest/dg/welcome.html>

**Virtualization** - Virtualization is a technology that provides the ability to turn a single physical computer/server into a set of virtual computers that exist on the same box. It can be used to set up multiple environments, as well as maximize the processing potential of a physical machine.

Source: <https://www.redhat.com/en/topics/virtualization/what-is-virtualization>

**Monolithic** - Monolithic is often used in conjunction with a system or software to refer to an application or system that has all components connected and interdependent. Monolithic systems are also referred to as ‘strongly coupled’ due to their interconnected nature.

Source: <https://whatis.techtarget.com/definition/monolithic-architecture>

**Microservice** - Microservices are often small applications that are built and function independent of each other. However, they are most commonly used as part of a much larger system, woven together in an interconnected nature.

Source: <https://martinfowler.com/articles/microservices.html>

**PaaS** - Platform as a service (PaaS) is a complete development/deployment environment available in the cloud. Resources are purchases from a cloud service broker, and then are offered to the client to be used.

Source: <https://azure.microsoft.com/en-us/overview/what-is-paas/>

**IaaS** - Infrastructure as a service(IaaS) provides servers and other forms of physical infrastructure to the client through a cloud computing service provider. It reduces the need for a client to have an on premises datacenter.

Source: <https://azure.microsoft.com/en-us/overview/what-is-iaas/>

**SaaS** - Software as a Service(SaaS) provides a complete software solution for a client, provided by a cloud service provider. Clients purchase the use of applications for their organization, located on the Cloud service provider’s technology.

Source: <https://azure.microsoft.com/en-us/overview/what-is-saas/>

**AWS** - Amazon Web Services (AWS) is Amazon’s cloud computing platform that offers a multitude of services. It’s offerings include IaaS, PaaS, and SaaS to its customers.

Source: <https://aws.amazon.com/what-is-aws/>

**Azure** **-** Azure is Microsoft’s cloud computing platform. It’s offerings also include IaaS, PaaS, and SaaS to its customers. Azure invests 1 billion USD per year on security.

Source: <https://azure.microsoft.com/en-us/overview/what-is-azure/>