**Personal Glossary**

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| **#** | **Term** | **Definition/Definition** |
| 1 | Microservices | A application design architecture where application components are splitted into smaller services that are deployed independently but the components communicate using network calls  Each service is autonomous, self-contained and should implement a single business capability within a bounded context.  **References:**  *<https://learn.microsoft.com/en-us/azure/architecture/guide/architecture-styles/microservices>*  *<https://microservices.io/>* |
| 2 | Monolith | In software engineering, a monolith is a traditional model of a application development in which one code base handles all of the business concerns together.  It is a unified unit that is self-contained and independent from other applications.  **References:**  *<https://www.atlassian.com/microservices/microservices-architecture/microservices-vs-monolith>* |
| 3 | Infrastructure as Code | Infrastructure as Code (IaC) refers to the provisioning and managing of cloud infrastructures through code instead of through manual processes.  **References:**  *<https://www.redhat.com/en/topics/automation/what-is-infrastructure-as-code-iac>* |
| 4 | Terraform | Terraform is an open source infrastructure as code (IaC) software tool that allows DevOps engineers to setup the physical resources needed by an application using codes.  Terraform allows users to define their entire infrastructure simply by using configuration files and [version control](https://www.techtarget.com/whatis/definition/version-control).  **References:**  *<https://www.techtarget.com/searchitoperations/definition/Terraform#:~:text=HashiCorp%20Terraform%20is%20an%20open,underlying%20IT%20infrastructure%20through%20programming.>* |
| 5 | Domain Driven Design (DDD) | A design ideology in software engineering whereby the solution being developed is focused on the business rather than the technologies.  This approach helps to solve the complexity of software development.  **References:**  *<https://www.geeksforgeeks.org/domain-driven-design-ddd/>*  *<https://medium.com/microtica/the-concept-of-domain-driven-design-explained-3184c0fd7c3f>*  *<https://learn.microsoft.com/en-us/archive/msdn-magazine/2009/february/best-practice-an-introduction-to-domain-driven-design>* |
| 6 | Orchestration | It refers to the automated management of web services.  In orchestration of web services, codes and configuration files are used with the sole aim of harmonising a diverse independent automation process into a cohesive and unified system for effective and secure infrastructure management .  **References:**  *<https://www.geeksforgeeks.org/orchestration-in-cloud-computing/>*  *<https://www.talend.com/resources/cloud-orchestration/>* |
| 7 | Cluster | a computer cluster is a collection of interconnected computing resources that runs in a parallel works together to provide a unified and scalable infrastructure  This system allows workloads consisting of a high number of individual, parallelizable tasks to be distributed among the computers or nodes in the cluster.  As a result, these tasks can leverage the combined memory and processing power of each computer to increase overall performance.  **References**  *<https://www.capitalone.com/tech/cloud/what-is-a-cluster/>* |
| 8 | Loose Coupling | This is a design concept that ensures that components of an application share less information as possible between services so as to reduce interdependence  **References:**  *<https://www.techtarget.com/searchnetworking/definition/loose-coupling#:~:text=Loose%20coupling%20is%20an%20approach,one%20element%20has%20of%20another.>* |
| 9 | Cohesion/Cohesive | This is a principle is microservices design that emphasizes that each service should do one thing and do it well,  The cohesion of a module refers to how closely related its member functions are. Futhermore a highly cohesive module means that the module can be easily seen and understood as a whole unit.  **References:**  *<https://www.developer.com/design/microservices-design-principles/>* |
| 10 | Kubernates | This is a container orchestration tool that is used to manage and deploy containers.  It is a preferable container orchestration tool because of it’s compatibility with several cloud vendors systems  **References:**  <https://learning.oreilly.com/videos/bootstrapping-microservices-with/9781617297212VE/9781617297212VE-bm_WdkAt_c2s1/> |