

Project Design Phase-I

Solution Architecture

Date	06 May 2023
Team ID	NM2023TMID19960
Project Name	The Meme Museum:A Curated Collection of Hilarity

Solution Architecture:

cluster:

- It is used to **identify groups of similar objects** in datasets with two or more variable quantities.

Kubernetes:

- It checks constantly the health of nodes and containers.
- It allows you scaling resources not only vertically but also horizontally, easily and quickly.
- Kubernetes clusters allow containers to run across multiple machines and environments like virtual, physical, cloud-based, and on-premises.

Container registry:

- It is used to stores its tags and layer files for container images in a Cloud Storage bucket in the same project as the registry.
- Access to the bucket is configured using Cloud Storage's identity and access management (IAM) settings.

Integration with API:

- It is a messenger that processes requests and ensures seamless functioning of enterprise systems.
- API enables interaction between data, applications, and devices.
- It delivers data and facilitates connectivity between devices and programs.
- Determine the Business's Systems and Goals.
- Management should understand what operations need improvement and how API integration will provide the solution.

Worker node:

Worker nodes within the Kubernetes cluster are used to run containerized applications and handle networking to ensure that traffic between applications across the cluster and from outside of the cluster can be properly facilitated

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