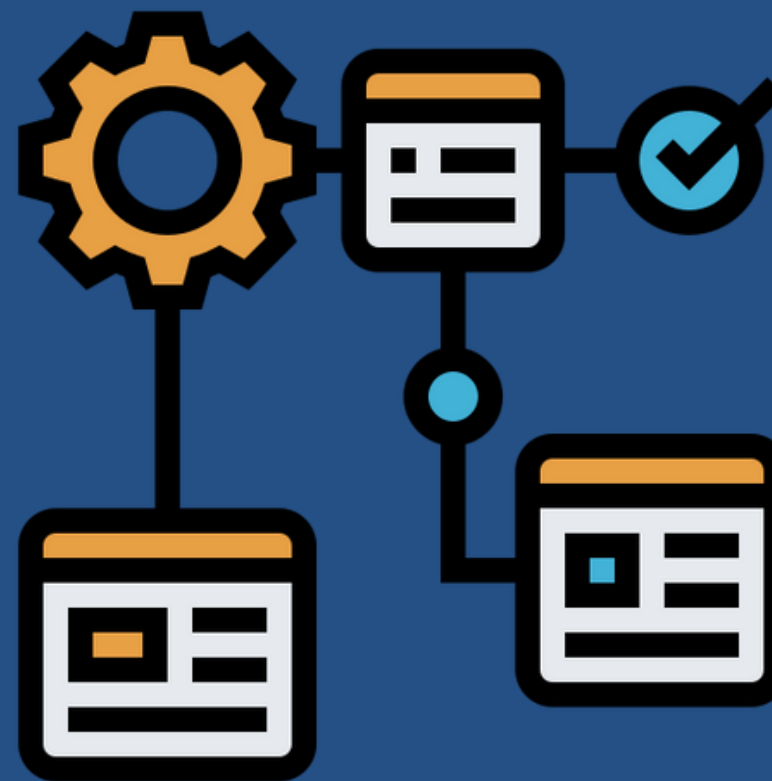SOCIALIZE KEYWORDS FROM THE READING BELOW "CLOUD ARCHITECTURE PATTERNS"
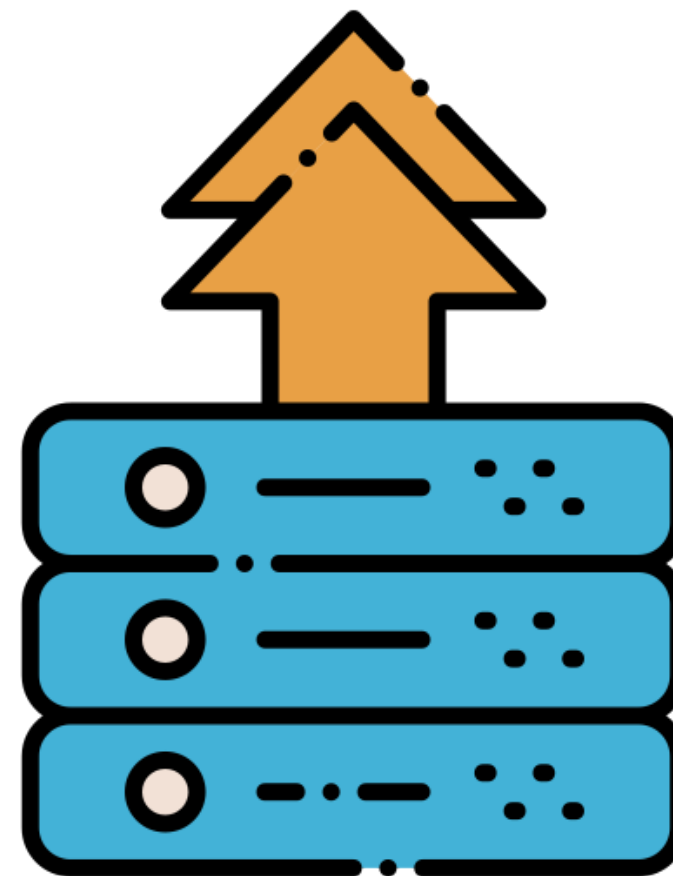
CLOUD ARCHITECTURE PATTERNS:

TESTED ARCHITECTURAL APPROACHES TO SOLVE SPECIFIC PROBLEMS IN CLOUD-BASED APPLICATIONS. EXAMPLES INCLUDE HORIZONTALLY SCALING COMPUTE, QUEUE-CENTRIC WORKFLOW, AUTO-SCALING, EVENTUAL CONSISTENCY, MAP REDUCE, DATABASE SHARDING, MULTI-TENANCY, BUSY SIGNAL, NODE FAILURE, NETWORK LATENCY, COLOCATE, VALET KEY, CDN, MULTISITE DEPLOYMENT, DYNAMIC DNS ROUTING, AUTOMATED CONFIGURATION, AUTOMATED API MONITORING, AND CONTINUOUS DEPLOYMENT.
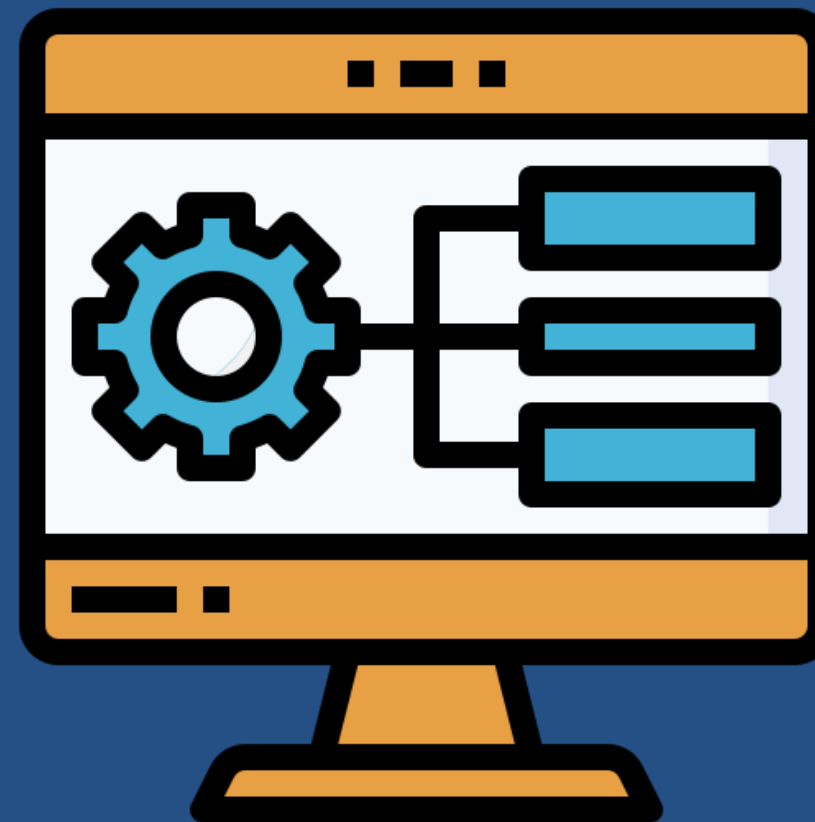
HORIZONTALLY SCALING COMPUTE PATTERN:

ARCHITECTURAL APPROACH ALIGNING APPLICATIONS WITH A CLOUD-NATIVE APPROACH FOR RESOURCE ALLOCATION, ALLOWING AUTO-SCALING OF COMPUTE CAPACITY FOR HIGH SCALABILITY, AVAILABILITY, AND COST OPTIMIZATION.
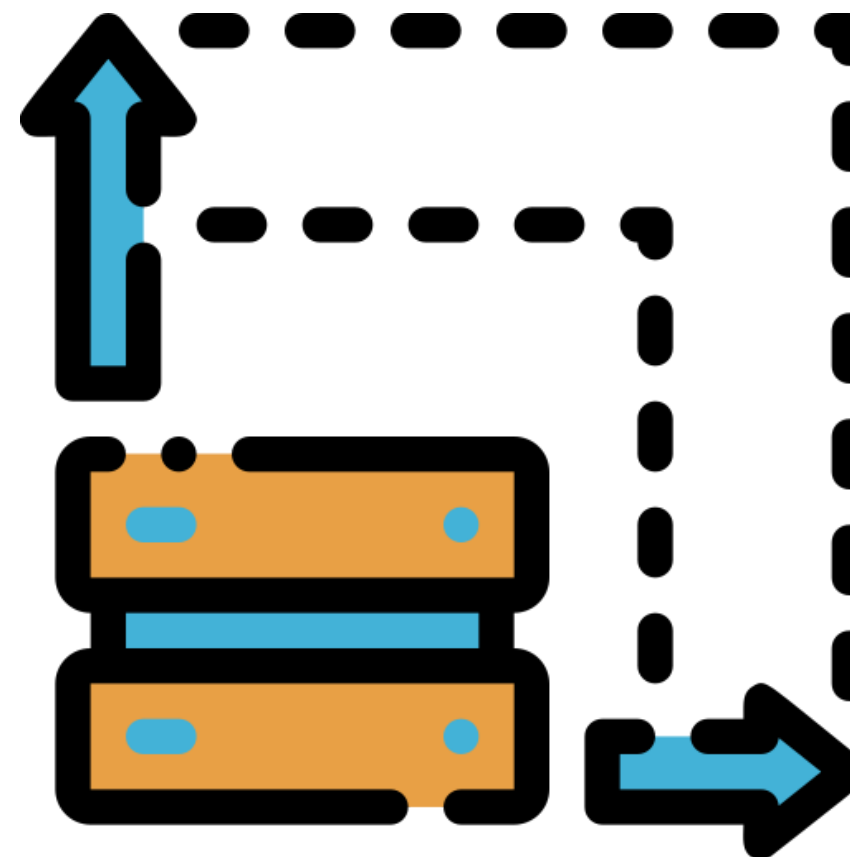
QUEUE-CENTRIC WORKFLOW PATTERN:

INVOLVES USING QUEUES TO DECOUPLE COMPONENTS AND INCREASE ELASTICITY, PARTICULARLY BETWEEN THE WEB AND SERVICE TIERS, ENHANCING RESPONSIVENESS AND RELIABILITY.

AUTO-SCALING PATTERN:

ESSENTIAL OPERATIONS PATTERN FOR AUTOMATING CLOUD ADMINISTRATION, ENSURING CLOUD-NATIVE APPLICATIONS GRACEFULLY HANDLE DYNAMIC INCREASES OR DECREASES IN RESOURCE LEVELS.

EVENTUAL CONSISTENCY:

A COMPROMISE BASED ON THE CAP THEOREM, ALLOWING FOR BETTER SCALABILITY BY ACCEPTING EVENTUAL CONSISTENCY IN DISTRIBUTED DATABASES.