ACTIVIDAD

Matching Description Activity: Match each Cloud Architecture Pattern Description with its Corresponding Pattern.

Se alcanza la aprobación con el 70%

Database Sharding Pattern

Eventual Consistency

Auto-Scaling Pattern

Queue-Centric Workflow Pattern

Horizontally Scaling Compute Pattern

1. This architectural approach aligns applications with a cloud-native approach for resource allocation, allowing auto-scaling of compute capacity for high scalability, availability, and cost optimization.

2. Involves using queues to decouple components and increase elasticity, particularly between the web and service tiers, enhancing responsiveness and reliability.

3. Essential operations pattern for automating cloud administration, ensuring cloud-native applications gracefully handle dynamic increases or decreases in resource levels.

4. A compromise based on the CAP Theorem, allowing for better scalability by accepting eventual consistency in distributed databases.

5. When using this pattern, workloads can be distributed over many database nodes rather than concentrated in one, overcoming size, query performance, and transaction throughput limits of the traditional single-node database.