# ACTIVIDAD

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

Se alcanza la aprobación con el 70%

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|---|---|
| Database Sharding 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. |
| Eventual Consistency | 2. Involves using queues to decouple components and increase elasticity, particularly between the web and service tiers, enhancing responsiveness and reliability. |
| Auto-Scaling Pattern | 3. Essential operations pattern for automating cloud administration, ensuring cloud-native applications gracefully handle dynamic increases or decreases in resource levels. |
| Queue-Centric Workflow Pattern | 4. A compromise based on the CAP Theorem, allowing for better scalability by accepting eventual consistency in distributed databases. |
| Horizontally Scaling Compute Pattern | 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. |

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