Scalability Test

* Required

Quiz

Which below system can handle eventual consistency?

☐ like on a facebook post

☐ bank transaction

☐ adding a product in your cart on ecommerce website

☐ flash sales on ecommerce website

Which of the following can lead to split brain in a cluster ?

○ Network Partition

○ Quorum size is EVEN

○ Both a & b

○ None of these

What stops me from getting linear speed up with increased horizontal capacity

○ Crosstalk

○ Contention

○ All

○ none

Theoretically, a shared nothing system can scale almost infinitely simply by adding nodes?

○ TRUE

○ FALSE

Using redundant server nodes with clustering is a common way to achieve _____

○ High Availibility

○ Performance

○ partition

○ Consistency

Advantages of using a CDN -

○ Less Latency

○ Increased Reliability

○ Lower Network Load on origin servers

○ All Of the above

Which of the following policy could be used for achieving sticky session load balancing?

○ Round Robin

○ Cookie based Hashing

○ Both a & b

○ None of the above

CAP theorem stands for ?

○ Consistency ,Arrangment, Persistence

○ Consistency, Availability, Persistence

○ Commit, Arrangment, Persistence

○ Consistency, Availability, Partition tolerance

A single node DB architecture is

○ Highly available

○ Consistent

○ both

○ none

High crosstalk can result in less performance on high scale.

○ True

○ False

○ doesn't matter

For I/O intensive tasks, number of cores _ _ _ number of threads

○ equal to

○ less than

○ greater than

○ doesn't matter

Why do we need Load balancer?

☐ Optimize resource usage (Avoid overload and under-load of any machines.)

☐ Achieve Maximum Throughput

☐ Minimize response time

☐ Separating data

For CPU intensive tasks, number of cores should be _ _ _ number of threads

○ equal to

○ less than

○ greater than

○ doesn't matter

It is advisable to put static web data in

○ CDN

○ Cache

○ Database

Which of the following can be achieved using a two-phase commit ?

○ Consistency

○ Atomicity

○ Both a & b

○ None of these

What Are The Issues With Sticky Session?

○ Loss of data in event of failure

○ Extra load on few servers

○ Both a & b

○ None of above

When would you prefer NoSQL database over a SQL database? *

☐ Relational data

☐ Dynamic schema

☐ Data integrity is needed

☐ No need for complex joins

Advantages of Cloud computing over Traditional Data centres ?

○ Elastic Computing

○ Reduces Overhead of racking boxes before serving

○ The machines can be returned as soon as the event is over or the traffic goes down

○ All of the above

If 1 clothe takes 10 minutes to dry, how much time will 10 clothes take in similar environment (serial , parallel)

○ 100, 10

○ 10, 10

○ 100, 100

○ >100, 10

○ >100, >10

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