

1. What does NoSQL mean? Why do we need such an approach to store and organize data? How does it address the problem that exists in the traditional relational databases?

2. What is the CAP theorem? Why in most distributed systems, P is needed? Then how do you choose between C and A?

3. What is eventual consistency? Please use a concrete example to demonstrate the difference between strict consistency and eventual consistency.

4. What are the main data models for state-of-the-art NoSQL databases? Why there are different types of these data models for NoSQL databases?

5. Why do we need a cloud OS (e.g., openstack)? How many components are involved in launching a VM instance?