

# 自测

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1. Why are distributed systems vulnerable to security attacks? List and define the main types of attack.
2. 2 tech aid scalability
3. Two algorithm to sync physical time
4. What is a routing overlay? Describe how the Pastry peer-to-peer middleware implements routing.
5. What is an Election Algorithm and what it is used for? Briefly present the two election algorithms considered in this course.
6. What is mutual exclusion? Describe 3 approach: *centralised*, *distributed*, and *token ring*.
7. Diff between loosely-coupled/tightly-coupled
8. Why DS no global clock
9. Why middleware important
10. Diff between Stateful&Stateless, Adv and Disadv
11. What is Flat file system? 3 component of FFS
12. Diff between capability list and access list
13. Diff between Routing overlay and Ip routing (6)
14. What is GMS? 4 components of GMS
15. Diff between active replication/passive replication
16. What is Replication system? 5 steps handle request
17. What is Grid computing?
18. Primary requirements of Grid computing
19. What is cryptography? 3 Main uses
20. Diff between Symmetric and Asymmetric encryption algorithm