

📌 EASY (Q1–Q10)

Q1. LDAP stands for:

- A. Local Directory Access Protocol
- B. Lightweight Directory Access Protocol
- C. Logical Directory Authentication Protocol
- D. Linux Directory Access Process

Q2. LDAP is primarily used for:

- A. File sharing
- B. Centralized authentication and directory services
- C. Web hosting
- D. Mail transfer

Q3. Which default port does LDAP use?

- A. 22
- B. 53
- C. 389
- D. 443

Q4. Which secure port is used by LDAPS?

- A. 636
- B. 587
- C. 993
- D. 995

Q5. NIS stands for:

- A. Network Identity Service
- B. Network Information Service
- C. Network Integration System
- D. Name Information Service

Q6. Which Apache module enables load balancing?

- A. mod_ssl
- B. mod_proxy
- C. mod_proxy_balancer
- D. mod_rewrite

Q7. Which component distributes traffic among servers?

- A. Firewall
- B. Load balancer
- C. Proxy server
- D. DNS

Q8. Which NIS file stores domain name?

- A. /etc/yp.conf

- B. /etc/nsswitch.conf
- C. /etc/defaultdomain
- D. /var/yp

Q9. Which LDAP object uniquely identifies entries?

- A. cn
- B. ou
- C. dn
- D. sn

Q10. Which load balancing algorithm uses round-robin method?

- A. Least connections
 - B. Weighted round-robin
 - C. Hash-based
 - D. Failover
-

☐ **MEDIUM (Q11–Q25)**

Q11. Which LDAP component stores directory data?

- A. slapd
- B. ldapsearch
- C. ldapadd
- D. ldapmodify

Q12. Which file configures LDAP server behavior?

- A. /etc/ldap.conf
- B. /etc/openldap/slapd.conf
- C. /etc/nsswitch.conf
- D. /etc/yp.conf

Q13. Which command queries LDAP directory?

- A. ldapadd
- B. ldapmodify
- C. ldapsearch
- D. ldappasswd

Q14. Which file integrates LDAP with system authentication?

- A. /etc/passwd
- B. /etc/nsswitch.conf
- C. /etc/hosts
- D. /etc/shadow

Q15. Which NIS component runs on client systems?

- A. ypserv

- B. yppasswd
- C. ypbind
- D. rpcbind

Q16. Which load balancing method routes traffic based on server load?

- A. Round-robin
- B. Least connections
- C. Hash-based
- D. Failover

Q17. Which Apache clustering improves high availability?

- A. Single server
- B. Reverse proxy
- C. Active-active cluster
- D. Standalone mode

Q18. Which LDAP feature ensures encrypted communication?

- A. Simple bind
- B. Anonymous bind
- C. TLS/SSL
- D. Flat files

Q19. Which NIS directory stores map files?

- A. /etc/yp
- B. /var/yp
- C. /usr/yp
- D. /etc/nsswitch

Q20. Which Apache directive defines a backend server in load balancing?

- A. ProxyPass
- B. BalancerMember
- C. ServerName
- D. VirtualHost

Q21. Which LDAP authentication mechanism prevents plaintext passwords?

- A. SIMPLE
- B. ANONYMOUS
- C. SASL
- D. CLEAR

Q22. Which load balancer feature maintains user session persistence?

- A. Round-robin
- B. Failover
- C. Sticky sessions
- D. Health checks

Q23. Which NIS file defines name service order?

- A. /etc/yp.conf
- B. /etc/passwd
- C. /etc/nsswitch.conf
- D. /etc/defaultdomain

Q24. Which Apache module checks backend server health?

- A. mod_status
- B. mod_proxy_hcheck
- C. mod_rewrite
- D. mod_ssl

Q25. Which LDAP tool adds entries to directory?

- A. ldapsearch
- B. ldapadd
- C. ldapmodify
- D. ldappasswd

HARD (Q26–Q40)

Q26. Why is LDAP preferred over NIS in modern environments?

- A. Simpler setup
- B. Better scalability and security
- C. Faster boot
- D. Smaller configuration files

Q27. Which LDAP object class defines user accounts?

- A. groupOfNames
- B. organizationalUnit
- C. inetOrgPerson
- D. domain

Q28. Which NIS security limitation led to its decline?

- A. High latency
- B. Encrypted communication
- C. Plaintext credential exposure
- D. Poor performance

Q29. Which load balancing strategy ensures high availability during failures?

- A. Hash-based
- B. Round-robin
- C. Failover
- D. Weighted routing

Q30. Which Apache configuration supports horizontal scaling?

- A. VirtualHost only
- B. Reverse proxy with load balancing
- C. Single backend server
- D. Static content hosting

Q31. Which LDAP replication mechanism ensures directory consistency?

- A. DNSSEC
- B. Multi-master replication
- C. Round-robin
- D. Flat file sync

Q32. Which NIS command initializes server maps?

- A. ypbind
- B. ypinit
- C. yppasswd
- D. ypmatch

Q33. Which load balancer security risk exists without health checks?

- A. Increased CPU usage
- B. Traffic routed to failed servers
- C. Slower DNS resolution
- D. Broken authentication

Q34. Which LDAP access control restricts directory entries?

- A. ACLs
- B. DNS
- C. Routing
- D. NAT

Q35. Which Apache clustering scenario improves fault tolerance?

- A. Single master
- B. Active-passive cluster
- C. No redundancy
- D. Standalone server

Q36. Which LDAP command changes user passwords?

- A. ldapadd
- B. ldapmodify
- C. ldappasswd
- D. ldapsearch

Q37. Which NIS alternative provides centralized authentication with encryption?

- A. DNS
- B. FTP

- C. LDAP
- D. Telnet

Q38. Which load balancer metric ensures optimal resource usage?

- A. Static routing
- B. Least connections
- C. Round-robin
- D. Failover

Q39. Which best practice secures LDAP communication?

- A. Anonymous binds
- B. Disable encryption
- C. Use LDAPS/TLS
- D. Open access

Q40. Which principle best guides identity and infrastructure design?

- A. Maximum access
- B. Flat authentication
- C. Least privilege and redundancy
- D. Single point of failure