**NFS Server**

**1. Explain this entry /shared 192.168.1.0/255.255.255.0 (sync,rw)**

**Ans:** Allows all systems with 192.168.1.\* IP addresses read-write access to the

/shared/ directory.

**2. What will happened if a space is given in between allowed\_hosts and (options)**  
  
**Ans:** If a space is included, the options are applied to any and all IP addresses, which

can be quite dangerous if write permission is granted.

**3. What is the role of "sync" option for NFS server?**  
  
**Ans:** If sync is specified, the server waits until the request is written to disk before responding to the client. The sync option is recommended because it follows the NFS protocol.

**4. How to retrieve a list of clients connected to the NFS server?**  
  
**Ans:** To retrieve a list of clients connected to the NFS server, use the showmount command  
 from a shell prompt. To also show the directories the clients are connected to,

use the showmount -a command.

**5. Name of Configuration file for NFS Server?**

/etc/exports

**6. What is meaning of "no\_root\_squash" option?**  
  
**Ans:** Treat remote root user as local root. Do not map requests from root to the anony-  
 mous user and group ID.

**7. What is NFS?**  
  
**Ans:** NFS stands for Network File System. NFS was originally developed by Sun Microsystems. In the 1980's. NFS allows remote hosts to mount file systems over a network and interact with those file systems as though they are mounted locally. This enables system administrators to consolidate resources onto centralized servers on the network.

**8. Which NFS versions are available?**  
  
**Ans:** NFS Version 2  
 NFS Version 3  
 NFS Version 4

**9. What is different between NFS Version 2 &3?**  
  
**Ans:** nfs 2 default 8kb transfer rate;it did not check the authentication at the time connection.

Client wants to access unauthorized file it shows error messages like "write error","Read error"

nfs 3 32kb transfer rate. It check at the time connection- ACL Support

**10. Can we grant access by Username and password for nfs share?**

**Ans:** No, access is granted only for IP address.

**11. What is the role of "all\_squash" option?**

**Ans:** Treat all client users as anonymous users. Map all users and group IDs to the anonymous user and group ID.

**12. What is the role of "root\_squash" option?**

**Ans:** All requests from the user root are translated or mapped as if they came from the

User anonymous (default).

**13. Explain option "all\_squash"?**

**Ans:** The UID and GID of exported files are mapped to the user anonymous. It is good for

public directories.

**14. Explain "exportfs" command?**

**Ans:** The exportfs command is used to maintain the current table of exported file systems for NFS.

**15. Explain command "/usr/sbin/exportfs -f"?**

**Ans:** It will flush everything out of the kernels export table. Any clients that are active will get new entries added by mountd when they make their next request.

**16. Which option is used with exportfs command to display the current export list,**

**also displays the list of export options?**

**Ans:** exportfs -v

**17. Which option is used with exportfs command to re-export all directories?**

**Ans:** exportfs -r

**18. How you will export directory (/data) to host 192.168.1.51, allowing**

**asynchronous writes without adding the entry in /etc/exports file?**

**Ans:** # exportfs -o async 192.168.1.51:/data

**19. Is rpc.mountd daemon supports TCP\_WRAPPERS?**

**Ans:** Yes, Therpc.mountd daemon is protected by the tcp\_wrappers. You have to give the

clients access to rpc.mountd if they should be allowed to use NFS Server.

**20. Explain "nfsstat" command?**

**Ans:** The nfsstat command displays the statistics about NFS client and NFS server activity.

**21. What do you understand by "nfsstat -o all -234" command?**

**Ans:** It will Show all information about all versions of NFS.

**22. What do you understand by "nfsstat --nfs --server -3" command?**

**Ans:** It will show statistics for NFS version 3 server.

**23. Can NFS share mounted on Window XP and justify your answer?**

**Ans:** No, Window XP operating system doesn’t support nfs protocol.

**24. 192.168.1.51:/data is exported by NFS Server and i want to add this NFS share**

**to client /etc/fstab file. How you will add this entry in /etc/fstab file?**

**Ans:** # device                      mount-point     fs-type     options      dump   fsckorder

192.168.1.51:/data            /mnt           nfs               rw              0         0

**25. Explain "Soft Mounting" option at NFS Client?**  
  
**Ans:** If a file request fails, the NFS client will report an error to the process on the client

Machine requesting the file access. if it cannot be satisfied (for example, the server is down), Then it quits. This is called soft mounting.

**26. Explain "Hard Mounting" option at NFS Client?**

**Ans:** If a file request fails, the NFS client will report an error to the process on the client

Machine requesting the file access. If it cannot be satisfied, then it will not quit until

The request is satisfied. This is called hard mounting.

**27. What is "portmap"?**

**Ans:** The portmapper keeps a list of what services are running on what ports. This list is used by a connecting machine to see what ports it wants to talk to access certain services.

**28. How you will check "portmap" service is running or not?**

**Ans:** rpcinfo -p

**29. I am unable to mount a NFS share. How will you trace out the reason?**

**Ans:** Firstly, check that you have permissions to mount nfs share or not. Check /etc/exports file. Secondly you can get RPC error: Program Not Registered (or another "RPC" error) For this check your NFS server and portmap service running or not by "rpcinfo -p"

**30. Can I modify export permissions without needing to remount clients in-order**

**To have them take effect?**

**Ans:** Yes. The safest thing to do is edit /etc/exports and run "exportfs -r".