

This technical note documents a caveat in configuring the Apple Workgroup Server 95 both as a NFS and AppleShare Server and its implications on your server.

AppleShare Pro and NFS while running on a Apple Workgroup Server 95 do not share User /Group accounts and their access privileges. This makes it extremely difficult to share the same volumes via both applications on a Apple Workgroup Server 95.

The Apple Workgroup Server 95 configured both as an NFS and AppleShare Server, will still let you access an NFS shared file system through AppleShare. It becomes cumbersome only if you want to create and modify the same files shared by NFS and AppleShare, on the same volume.

Since AppleShare runs as root, all files created by regular Unix users can be seen and modified via AppleShare. Thus, sharing the same file system by NFS and AppleShare will leave the NFS user's files unprotected from the AppleShare users.

Apple does not recommend sharing the same items via NFS and AppleShare. It's perfectly normal to configure the Apple Workgroup Server 95 both as a NFS and AppleShare server for sharing separate items.

Running NFS on the Apple WorkGroup Server 95 utilizes the number of buffers (kernel parameter, called NMBUFS) allocated for networking. If NFS is being heavily used in your configuration, NMBUFS may need to be increased. If the message '*m_expand returning 0*' is seen often, or if the system halts with the message '*panic:out of mbufs*', NMBUFS should

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be increased by using the *kconfig* command. For more information, refer to the on-line man page for *kconfig*.

Implementing NFS services on the Apple WorkGroup Server 95 will have an impact on your server's memory resources, by starting more UNIX processes. Also, increasing NMBUFS reduces the amount of free memory in the system, which increases the probability that the system will run out of physical memory and begin paging or swapping, thereby degrading the performance of your server. You must ensure your Apple Workgroup Server 95 has adequate cache settings to be configured for your specific needs. For more information on cache settings, refer to the technical note *AWS03:AWS95 Configuration & Sizing Guide*.

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