NAME

rpc.nfsd – NFS server process

SYNOPSIS

/usr/sbin/rpc.nfsd [*options***] nproc**

DESCRIPTION

The **rpc.nfsd** program implements the user level part of the NFS service. The main functionality is handled by the **nfsd** kernel module. The user space program merely specifies what sort of sockets the kernel service should listen on, what NFS versions it should support, and how many kernel threads it should use.

The **rpc.mountd** server provides an ancillary service needed to satisfy mount requests by NFS clients.

OPTIONS

–d or ––debug
enable logging of debugging messages

–H or ––host hostname
specify a particular hostname (or address) that NFS requests will be accepted on. By default, **rpc.nfsd** will accept NFS requests on all known network addresses. Note that **lockd** (which performs file locking services for NFS) may still accept request on all known network addresses. This may change in future releases of the Linux Kernel. This option can be used multiple time to listen to more than one interface.

–p or ––port port
specify a different port to listen on for NFS requests. By default, **rpc.nfsd** will listen on port 2049.

–r or ––rdma
specify that NFS requests on the standard RDMA port ("nfsrdma", port 20049) should be honored.

––rdma=*port*
Listen for RDMA requests on an alternate port - may be a number or a name listed in **/etc/services**.

–N or ––no-nfs-version vers
This option can be used to request that **rpc.nfsd** does not offer certain versions of NFS. The current version of **rpc.nfsd** can support NFS versions 2,3,4 and the newer version 4.1.

–s or ––syslog
By default, **rpc.nfsd** logs error messages (and debug messages, if enabled) to stderr. This option makes **rpc.nfsd** log these messages to syslog instead. Note that errors encountered during option processing will still be logged to stderr regardless of this option.

–T or ––no-tcp
Disable **rpc.nfsd** from accepting TCP connections from clients.

–U or ––no-udp
Disable **rpc.nfsd** from accepting UDP connections from clients.

–V or ––nfs-version vers
This option can be used to request that **rpc.nfsd** offer certain versions of NFS. The current version of **rpc.nfsd** can support NFS versions 2,3,4 and the newer version 4.1.

–L or ––lease-time seconds
Set the lease-time used for NFSv4. This corresponds to how often clients need to confirm their state with the server. Valid range is from 10 to 3600 seconds.

–G or ––grace-time seconds
Set the grace-time used for NFSv4 and NLM (for NFSv2 and NFSv3). New file open requests (NFSv4) and new file locks (NLM) will not be allowed until after this time has passed to allow clients to recover state.

nproc specify the number of NFS server threads. By default, just one thread is started. However, for optimum performance several threads should be used. The actual figure depends on the number of and the work load created by the NFS clients, but a useful starting point is 8 threads. Effects of modifying that number can be checked using the nfsstat(8) program.

Note that if the NFS server is already running, then the options for specifying host, port, and protocol will be ignored. The number of processes given will be the only option considered, and the number of active **nfsd** processes will be increased or decreased to match this number. In particular **rpc.nfsd 0** will stop all threads and thus close any open connections.

NOTES

If the program is built with TI-RPC support, it will enable any protocol and address family combinations that are marked visible in the **netconfig** database.

SEE ALSO

nfsd(7), rpc.mountd(8), exports(5), exportfs(8), **rpc.rquotad(8),** nfsstat(8), netconfig(5).

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