

This directory (**<install dir>\NetBackup\Logs**) contains the **user_ops** sub-directory, the **AltPath** sub-directory and optionally, sub-directories where detailed debug logs will be created.

The **user_ops** sub-directory is created during the install of NetBackup on all servers and clients. It is used by the NetBackup - Client GUI applications for placement of job and progress log files generated by the end-user client application (**nbwin.exe**) and temporary files generated while using these applications. This directory must exist for successful operation of any of these GUI applications and must allow read and write access to the local system account (or the account under which you chose to run the NetBackup services during installation). One sub-directory in **logs/user_ops** will exist for every user that is using these GUI applications. The pruning of files in this sub-directory is done as specified in the "Keep status of user-directed backups, archives and restores for ____ days" text box on the General Client tab of the Configure NetBackup GUI (the default is 3 days).

In addition, when the NBJava GUI is installed, a sub-directory of **user_ops** is created - **nbjlogs**. This directory will contain the NBJava GUI debug log files. It must also exist and must allow read and write access to the local system account. Pruning of the files in this directory is done in the same manner as with the other sub-directories of **user_ops**.

The **AltPath** sub-directory is also created on servers and clients during the install. It is used by the NetBackup - Client applications to list the alternate paths when doing an alternate path restore. Files in this directory are deleted when the restore completes. These are not log files.

The **AltPath** sub-directory must exist and allow read and write access to the local system account (or the account under which you chose to run the NetBackup service during installation) or alternate path restores will fail.

All other sub-directories in **<install dir>\NetBackup\Logs** are optional and should only be created if unexplained problems are occurring with the NetBackup product and more information is required to isolate the problem.

Miscellaneous notes about these optional NetBackup logs contained in this directory:

- each NetBackup process has its own debug log directory
- One debug log file is created per process per day. The file names created are of the form:**<mddyy>.log** (e.g., **110891.log**)
- Debug logging is only in affect for a process if that process's debug log directory is defined.
- The log files in these directories are automatically deleted by the NetBackup request daemon, **bprd**. The "Duration to retain logs: ____ day" text box on the Global NetBackup Attributes tab of the Configure NetBackup GUI determines how long the log files exist.
- Volume of debug logging can be increased by enabling "verbose" mode by increasing the "Verbose logging level: ____" value on the Universal Settings tab of the Configure NetBackup GUI.

WARNING: Some of these logs can potentially grow very large, and should only be enabled if unexplained problems exist.

Logs to be created on NetBackup Server

```
<install dir>\NetBackup\Logs\admin  
<install dir>\NetBackup\Logs\bpbrm  
<install dir>\NetBackup\Logs\bpbrmds  
<install dir>\NetBackup\Logs\bpcompatd  
<install dir>\NetBackup\Logs\bpcoord  
<install dir>\NetBackup\Logs\bpdbm
```

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<install dir>\NetBackup\Logs\bpdm
<install dir>\NetBackup\Logs\bpjava-msvc
<install dir>\NetBackup\Logs\bpjava-susvc
<install dir>\NetBackup\Logs\bpjobd
<install dir>\NetBackup\Logs\bprd
<install dir>\NetBackup\Logs\bpsynth
<install dir>\NetBackup\Logs\bptm
<install dir>\NetBackup\Logs\vnetd

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Logs to be created at Client End

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<install dir>\NetBackup\Logs\bpcd
<install dir>\NetBackup\Logs\bpinetd
<install dir>\NetBackup\Logs\ppkar
<install dir>\NetBackup\Logs\bpdb2
<install dir>\NetBackup\Logs\bpdbsbdb2
<install dir>\NetBackup\Logs\bpdbsbora
<install dir>\NetBackup\Logs\bpfilter
<install dir>\NetBackup\Logs\bpjava-msvc
<install dir>\NetBackup\Logs\bpjava-usvc
<install dir>\NetBackup\Logs\bpkeyutil
<install dir>\NetBackup\Logs\bpnbat
<install dir>\NetBackup\Logs\tar

```

All the above directories (both server and client) may be created on the server by running the **mklogdir.bat** script which is supplied in the Logs directory.

Log DIRECTORY name	Purpose
bprd	<ul style="list-style-type: none"> ➤ NetBackup Request Manager service ➤ can be terminated and initiated from the Activity Monitor ➤ responds to client and administrative requests <ul style="list-style-type: none"> • restores • backups • archives • list files backed-up or archived • manual/immediate backups • reread configuration database
bpdm	<ul style="list-style-type: none"> ➤ disk manager ➤ used on storage units of type Disk ➤ started by bpbrm on backups and restores ➤ during backups and restores, one of these is started (on the server with the storage unit) for each client backup or restore
bptm	<ul style="list-style-type: none"> ➤ removable media (tape) manager ➤ used on storage units of type Logical Tape ➤ started by bpbrm on backups and restores ➤ during backups and restores, one of these is started (on the server with the storage unit) for each client backup or restore ➤ also responsible for managing the media database ➤ used to display info in the Reports GUI when you select Media List
Bpbrm	<ul style="list-style-type: none"> ➤ backup/restore manager ➤ started by nbjm on backups/archives

Log DIRECTORY name	Purpose
	<ul style="list-style-type: none"> ➤ started by bprd on restores ➤ during backups and restores, one of these is started (on the server with the storage unit) for each client backup or restore ➤ Responsible for managing both the client and the media manager processes. uses error status from both to determine ultimate status of backup or restore
Bpbrmds	<ul style="list-style-type: none"> ➤ backup/restore manager for Disk Staging duplications ➤ started by nbjm when handling a Disk Staging schedule ➤ Responsible for starting, and managing, a bpduplicate process.
Bpdbm	<ul style="list-style-type: none"> ➤ NetBackup Database Manager service ➤ manages policy, config/behaviour, storage unit, and error DB's ➤ runs as a Windows NT service
Bpjobjd	<ul style="list-style-type: none"> ➤ NetBackup Job Manager service ➤ manages backup and restore jobs for activity monitor GUIs ➤ initiated by bpdbm
bpinetd	<ul style="list-style-type: none"> ➤ NetBackup Legacy Client service ➤ runs as a Windows NT service
bpsynth	<ul style="list-style-type: none"> ➤ NetBackup synthetic backup manager ➤ started by nbjm on synthetic backups ➤ runs on master server and manages the creation of a synthetic image.
Bpcoord	<ul style="list-style-type: none"> ➤ NetBackup synthetic backup read coordinator ➤ started by bpsynth for synthetic backups ➤ runs on master server and coordinates reading required blocks from existing images
bpcompatd	<ul style="list-style-type: none"> ➤ compatibility daemon ➤ allows NetBackup 6.0 commands to connect to pre-6.0 daemons
bpjava-msvc	<ul style="list-style-type: none"> ➤ NetBackup-Java application server authentication service program ➤ started by the NetBackup client service ➤ authenticates the user that started the NetBackup-Java GUI application ➤ bpjava programs do not get installed on Windows 95/98 hosts
bpjava-susvc	<ul style="list-style-type: none"> ➤ NetBackup-Java application server user service program on NetBackup servers ➤ started by bpjava-msvc upon successful login via the NetBackup-Java GUI applications login dialog window ➤ services all requests from the NetBackup-Java GUI applications for administration and end-user operations on the host on which the NetBackup-Java application server is running ➤ additional bpjava-susvc processes get started to respond to requests from the NetBackup-Java GUI applications
bpjava-usvc	<ul style="list-style-type: none"> ➤ NetBackup-Java application server user service program on NetBackup clients ➤ started by bpjava-msvc upon successful login via the NetBackup-Java GUI applications login dialog window ➤ services all requests from the NetBackup-Java GUI applications for administration and end-user operations on the host on which the NetBackup-Java application server is running

Log DIRECTORY name	Purpose
	➤ additional bpjava-usvc processes get started to respond to requests from the NetBackup-Java GUI applications
bpcd	➤ NetBackup Client service ➤ used to provide miscellaneous services
bpdbjobs	➤ NetBackup jobs database manager program ➤ started by bprd
bparchive	➤ command-line program on clients to initiate archives ➤ communicates with bprd on server
bpbackup	➤ command-line program on clients to initiate backups ➤ communicates with bprd on server
bpbkar32	➤ program used on Windows clients to generate backup images ➤ not used directly by client users
bplist	➤ command-line program on clients to initiate file lists ➤ communicates with bprd on server
bprestore	➤ command-line program on clients to initiate restores ➤ communicates with bprd on server
bphdb	➤ program used to start to backup to do Oracle database backups
bpdb2	➤ log for the DB2 Extension clients
dbclient	➤ log for the DB Extension clients
bpdbsbdb2	➤ command-line program used to initiate template based user-directed DB2 backup and recovery ➤ enables generation of a shell script from a template for DB2
bpdbsbora	➤ command-line program used to initiate template based user-directed backup and recovery ➤ enables generation of a shell script from a template tar32 ➤ program used on Windows clients to restore backup images
bpnbat	➤ command-line program to manage NetBackup Access Control authentication
nblaunch	➤ Windows GUI for NetBackup administration of a server
nbcfg	➤ Windows GUI to configure NetBackup
nbmon	➤ Windows GUI to monitor NetBackup jobs, services and processes
nbreport	➤ Windows GUI to generate reports on NetBackup status
nbwin	➤ Windows GUI for backups, archives, and restores
nbclass	➤ nbclass
nbstunit	➤ Windows GUI to manage NetBackup storage units
bpfILTER	➤ client program used to filter backup images between the media server and bpbkar or tar on the client
bpkeyutil	➤ command-line program to manage Encryption key files
vnetd	➤ NetBackup Legacy Network service ➤ used to create "firewall friendly" socket connections and provide other miscellaneous services