

Q: What is a good strategy for backing up a system?

A: The following is a suggested method of backing up a system using dump(8).

1. Install and configure the software on the system as desired.
2. Generate files depending solely on the release:
  - cat pages  $\rightarrow$  **catman(8)**.
  - Index the header files (**/usr/include**)  $\rightarrow$  Digital Librarian.
  - Install desired packages from the CD-ROM.
3. Perform a phony level 0 dump (use one of the following):
  - `dump 0uf /dev/null /dev/rsd0a`
    - Takes longer
    - Simpler

· Edit the file **/etc/dumpdates**

- Takes less time
- Slightly more complicated
- Put a line such as the following in the file:

```
/dev/rsd0a    0 Tue Sep 19 12:19:40 1989
```

The easiest way to get such a line truly properly formatted is to copy another one. Format [from dumpdates(5)]:

```
^-16%s %c %s^
```

Key: those blanks are not tabs!

4. Configure the system (NetInfo, restore users, etc.).

5. Perform a level 1 dump.

- Phony if everything is simply restored.
- Real if work was needed.

```
mount /dev/od0a /DUMP
dump 1ufo /DUMP/clients-1.dump /dev/rsd0b
umount /dev/od0a
disk -e /dev/rod0a
```

The file name clients-1.dump is based on the file system name (where it's usually mounted; here, assumed to be /clients) and the dump level.

6. **PUT THE RELEASE DISK, THE UPGRADE DISK, AND THE LEVEL 1 DUMP IN A VERY SAFE PLACE.** It even makes sense to make a second level 1 dump.

Now you're ready for normal operations.

7. Each day, perform an incremental dump.
  - Level 9.
  - Rotate media each day (multiple sets precludes destroying the most recent dump if today's dump fails).
  
8. Each week, do a weekly dump
  - On the first week of the month, do a level  $n$  dump:
    - $n$  is 1 if there was no configuration work done.
    - $n$  is 2 if configuration work was done.
  - The second week, do a level  $n+1$  dump.
  - Etc.
  - Rotate media, using at least two sets.

9. Each month, do a monthly dump.
  - A monthly dump is a level  $n$  dump ( $n$  as in step 8).
  - Rotate media, using at least two sets
  
10. Repeat the cycle, rotating media using at least two sets.

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Valid for 1.0, 2.0, 3.0, 3.1