

CONTRIBUTED DOCUMENTATION

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Andrew Setup for Depot

This document is an overview of how to use local disk depot (LDD) on an Andrew Workstation. LDD is used to create an environment on the local disk of a workstation. In order to use LDD, one must have root access to a workstation. The examples given below show how to build a local environment. To build a contributed environment, simply replace "local" with "contrib."

Setup

In order to set up LDD, one must have root access to a workstation.

1. Log in as root.
2. Modify the `/etc/package.proto` by adding the following lines to the top of the file:

```
%define usesdepot
%define localdepotdir
```

Note: These must be put in BEFORE the "%include" line(s).

3. Reboot the machine. When the machine comes back up, the `/usr/local/depot` directory should exist containing a small number of files on the local machine. The files that should be there are:

```
depot.pref.proto{.BAK}
depot.pref{.BAK}
collection_list.{.BAK}
depot.db
```

Also located in the depot directory may be two optional files. They are:

```
depot.conf.proto
depot.conf
```

At this time, `/usr/local` is now on the local hard drive. However, all the files are still symbolic links to the appropriate files on AFS and you can now refer to the [Using Depot](#) document for instructions on what options are available.

For those who are already familiar with this type of setup, [Appendix A](#) contains a faster way to create an environment with fewer reboots.

Package

Package changes may need to be made when using `dpp` and `depot`. For example, when copying the `depot.pref.proto` from AFS, some changes may be made in the packages as a precaution. By default, the `depot.pref.proto` is copied once to the local disk of the workstation and then not touched by package henceforth. This may not be an ideal situation, if the disk goes bad, there may not be another copy of the `depot.pref.proto`. As a precaution, some may wish to update the `depot.pref.proto` from AFS. To do so, the following package changes are required:

```
FA          /usr/local/depot/depot.pref.proto      <AFSPATH>
%define haslocaldepot.pref.proto
```

where <AFSPATH> is the path to the depot.pref.proto file on AFS.

A second reason for package changes might be that a maintainer may wish to prevent /usr/local/depot from being cleaned. By default, /usr/local/depot is "cleaned" by package. That is, files that aren't specified are removed. This can be done one of two ways:

- Specify that /usr/local/depot should not be updated by package. This can be done by:
D /usr/local/depot
%define has/usr/local/depot
- Specify all the collections installed in /usr/local/depot. For example, if you have the 'foo' collection stored in /usr/local/depot, you would protect it by:
D /usr/local/depot/foo root wheel 755

Automatic Updating

By default, an entry will be added to your crontab file so that depot will automatically update /usr/local and/or /usr/contributed if you have those environments local disk depot'd.

The time will be chosen "randomly" based on the IP address for your workstation. This means that as long as your machine has the same IP address, the updates will occur at the same time every week. The update will occur between midnight and 6:59am on a day other than Sunday. For the exact time, check out your crontab file. (**Note:** If your machine is beta linked, the updates occur nightly.)

For more information on how this is done, see the cronadd(8) man page.

To disable depot updates at any time, you can create the file:
/etc/NoDepot

To disable the automatic updating of the crontab file, the entry
%define hasrc.local.depote-cronadd can be added your /etc/package.proto file.

Be aware that Computing Services requires that a successful depot run must occur at least once every 30 days. If that does not occur, errors may occur in the system software.

Booting Takes Too Long

To make a machine boot faster (i.e. not run depot on boot), create a file

```
/etc/NoDepotOnBoot
```

This will inhibit /etc/dodepot from running on boot.

Appendix A: A faster way to create an environment

This is a faster way to build an environment. The package changes will still need to be done, however, an immediate reboot is not necessary. For those who do not understand what is going on here, it is better to spend the extra time and do it the "easy" way.

```
% mkdir -p /usr/local.new/depot  
% cd /usr/local.new/depot  
% cp /afs/andrew/wsadmin/services/specific/depot/<SYS>/depot.pref.proto.local.gamma ./
```

```
depot.pref.proto
  < edit the depot.pref.proto >
  % /etc/dodepot /usr/local.new
  % cd /usr
  % rm local
  % mv local.new local
```