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mkdir's "-p" option

So this doesn't seem like a terribly complicated question I have, but it's one I can't find the answer too. I'm just confused about what the -p option does in Unix. I used it for a lab assignment while creating a subdirectory and then another subdirectory within that one. It looked like this:

```
mkdir -p cmps012m/lab1
```

This is in a private directory with normal rights (rlidwka). Thanks in advance! Oh, and would someone mind giving a little explanation of what "rlidwka" means? I'm not a total noob to Unix, but I'm not really familiar with what this means. Hopefully that's not too vague of a question.

unix command-line command-line-arguments directory-structure

edited Nov 11 '14 at 20:35

JasonMArcher
7,409 9 42 45

asked Mar 29 '14 at 22:50



1 man mkdir will answer your question. As for "rlidwka", I have no idea; you'll need to give us some more context. – Keith Thompson Mar 29 '14 at 22:54

3 Answers

The man pages is the best source of information you can find... and is at your fingertips: $_{man}$ $_{mkdir}$ yields this about $_{-p}$ switch:

```
-p, --parents
no error if existing, make parent directories as needed
```

Use case example: Assume I want to create directories hello/goodbye but none exist:

```
$mkdir hello/goodbye
mkdir:cannot create directory 'hello/goodbye': No such file or directory
$mkdir -p hello/goodbye
$
```

-p created both, hello and goodbye

This means that the command will create all the directories necessaries to fulfill your request, not returning any error in case that directory exists.

About rlidwka, Google has a very good memory for acronyms:). My search returned this for example: http://www.cs.cmu.edu/~help/afs/afs_acls.html

Directory permissions 1 (lookup) Allows one to list the contents of a directory. It does not allow the reading of files. i (insert) Allows one to create new files in a directory or copy new files to a directory. d (delete) Allows one to remove files and sub-directories from a directory. Allows one to change a directory's ACL. The owner of a directory can always change the ACL of a directory that s/he owns, along with the ACLs of any subdirectories in that directory. File permissions r (read) Allows one to read the contents of file in the directory. Allows one to modify the contents of files in a directory and use $\operatorname{\mathsf{chmod}}$ on them. k (lock) Allows programs to lock files in a directory.

Hence rlidwka means: All permissions on.

It worth mention, as @KeithThompson pointed out in the comments, that not all Unix systems support ACL. So probably the <code>rlidwka</code> concept doesn't apply here.

edited Mar 30 '14 at 0:11

answered Mar 29 '14 at 22:59



But not all Unix-like systems support ACLs, so rlidwka may or may not be meaningful. - Keith Thompson Mar 29 '14 at 23:34

@KeithThompson Well I agree, I just wanted mention what the acronym stands for. – Paulo Bu Mar 29 '14 at 23:35

Yes, but often just answering someone's question is less helpful than providing background information needed to understand the answer. – Keith Thompson Mar 29 '14 at 23:56

I'll point it out in the answer. I just wasn't aware of this. Thanks for correcting me. – Paulo Bu Mar 30 '14 at

This answer is the most verbose way possible of saying "RTFM, let me google that for you" and I love it. I once was a noobie intern that didn't know anything, and forgot that before asking my manager I should just google it. Go easy on these new guys; sometimes it's hard to figure out what to google. You don't know what you don't know. But everyone gets more skillful at googling after years of doing it. – Dagrooms Jun 16 at 14:57

-p|--parent will be used if you are trying to create a directory with top-down approach. That's create parent directory then child and so on iff none exists.

-p, --parents no error if existing, make parent directories as needed

About rlidwka it means giving full or administrative access. Found it here https://itservices.stanford.edu/service/afs/intro/permissions/unix.

answered Mar 29 '14 at 23:10



Rahul

k 9 37

Note that -p is an argument to the mkdir command specifically, not the whole of Unix. Every command can have whatever arguments it needs.

In this case it means "parents", meaning mkdir will create a directory and any parents that don't already exist.

answered Mar 29 '14 at 23:05



IMSoP

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