

new/usr/src/cmd/oamuser/user/Makefile

1

```
*****
3176 Sat Sep 19 01:15:20 2015
new/usr/src/cmd/oamuser/user/Makefile
293 useradd/del/mod should be ZFS-aware
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 1990, 2010, Oracle and/or its affiliates. All rights reserved.
23 # Copyright (c) 2013 RackTop Systems.
24 # Copyright (c) 2013 Gary Mills
25 #
26 # cmd/oamuser/user/Makefile
27 #

29 DEFAULTFILES= useradd.dfl

31 include ../../Makefile.cmd

33 GREP=      grep

35 USERADD=   useradd
36 USERDEL=   userdel
37 USERMOD=   usermod
38 ROLEADD=   roleadd
39 ROLEDEL=   roledel
40 ROLEMOD=   rolemod

42 SBINPROG=  $(USERADD) $(USERDEL) $(USERMOD)
43 #
44 #      Removing sysadm: deleted $(SYSADMPROG) from this target.
45 #
46 PROG=      $(SBINPROG)
47 PRODUCT=   $(PROG)

49 ADD_OBJ=   useradd.o      homedir.o      groups.o      call_pass.o \
50            userdefs.o    messages.o    val_lgrp.o    funcs.o \
51            val_lprj.o    proj.o

53 DEL_OBJ=   userdel.o      call_pass.o    homedir.o     isbusy.o \
54            userdel.o    call_pass.o   rmfiles.o     isbusy.o \
55            groups.o    messages.o   funcs.o       proj.o

56 MOD_OBJ=   usermod.o      movedir.o     groups.o      homedir.o \
57            call_pass.o  isbusy.o     userdefs.o    \
56 MOD_OBJ=   usermod.o      movedir.o     groups.o      rmfiles.o \
57            call_pass.o  isbusy.o     homedir.o     userdefs.o \
58            messages.o   val_lgrp.o   funcs.o       val_lprj.o \
```

new/usr/src/cmd/oamuser/user/Makefile

2

```
59          proj.o

61 OBJECTS=   $(ADD_OBJ)      $(DEL_OBJ)      $(MOD_OBJ)

63 SRCS=      $(OBJECTS:.o=.c)

65 LIBDIR=    ../lib
66 LIBUSRGRP= $(LIBDIR)/lib.a
67 LIBADM=    -ladm
68 LOCAL=     ../inc
69 HERE=      .
70 LINTFLAGS= -u

72 ROOTSKEL=  $(ROOTETC)/skel
73 INSSBINPROG=$(SBINPROG:%=$(ROOTUSRSBIN)/%)
74 INSSKELFILE=$(SKELFILE:%=$(ROOTSKEL)/%)

76 CPPFLAGS=  -I$(HERE) -I$(LOCAL) $(CPPFLAGS.master)
77 CERRWARN += -gcc=-Wno-implicit-function-declaration

79 $(INSSBINPROG) := FILEMODE = 0555
80 $(INSSYSADMPROG) := FILEMODE = 0500
81 $(INSSKELFILE) := FILEMODE = 0644

83 $(USERADD) := OBJS = $(ADD_OBJ)
84 $(USERADD) := LIBS = $(LIBUSRGRP)
85 $(USERADD) := LDLIBS += -lcmdutils

87 $(USERDEL) := OBJS = $(DEL_OBJ)
88 $(USERDEL) := LIBS = $(LIBUSRGRP)

90 $(USERMOD) := OBJS = $(MOD_OBJ)
91 $(USERMOD) := LIBS = $(LIBUSRGRP)

93 LDLIBS +=  -lbsm -lnsl -lsecdb -lproject -lzfs -ltsol
93 LDLIBS +=  -lbsm -lnsl -lsecdb -lproject -ltsol

95 .PARALLEL: $(OBJECTS)

97 all:      $(PRODUCT)

99 $(PROG):  $$$(OBJ) $$$(LIB)
100          $(LINK.c) $(OBJ) -o $@ $(LIB) $(LDLIBS)
101          $(POST_PROCESS)

103 $(USERADD): $(ADD_OBJ)
104 $(USERMOD): $(MOD_OBJ)
105 $(USERDEL): $(DEL_OBJ)

107 install: all $(ROOTETCDEFAULTFILES) .WAIT \
108           $(ROOTSKEL) $(INSSBINPROG) $(INSSKELFILE)
109           $(RM) $(ROOTUSRSBIN)/$(ROLEADD)
110           $(LN) $(ROOTUSRSBIN)/$(USERADD) $(ROOTUSRSBIN)/$(ROLEADD)
111           $(RM) $(ROOTUSRSBIN)/$(ROLEDEL)
112           $(LN) $(ROOTUSRSBIN)/$(USERDEL) $(ROOTUSRSBIN)/$(ROLEDEL)
113           $(RM) $(ROOTUSRSBIN)/$(ROLEMOD)
114           $(LN) $(ROOTUSRSBIN)/$(USERMOD) $(ROOTUSRSBIN)/$(ROLEMOD)

116 clean:   $(RM) $(OBJECTS)

119 lint:    lint_SRCS

121 include ../../Makefile.targ
```

new/usr/src/cmd/oamuser/user/funcs.h

1

```
*****
1517 Sat Sep 19 01:15:21 2015
new/usr/src/cmd/oamuser/user/funcs.h
293 useradd/del/mod should be ZFS-aware
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 1999,2002-2003 Sun Microsystems, Inc. All rights reserved.
24 * Use is subject to license terms.
25 */
27 #pragma ident "%Z%M% %I% %E% SMI"
28 #ifndef _FUNCS_H
29 #define _FUNCS_H
30 #ifdef __cplusplus
31 extern "C" {
32 #endif
33
34 #define CMD_PREFIX_USER "user"
35
36 #define AUTH_SEP      ", "
37 #define PROF_SEP     ", "
38 #define ROLE_SEP     ", "
39
40 #define MAX_TYPE_LENGTH 64
41
42 char *getusertype(char *cmdname);
43
44 int is_role(char *usertype);
45
46 void change_key(const char *, char *);
47 void addkey_args(char **, int *);
48 char *getsetdefval(const char *, char *);
49
50 extern int nkeys;
51
52 /* create_home() or rm_files() flags */
53 #define CHANGE_ZFS_FS_OPT      "CHANGE_ZFS_FS="
54 #define CHANGE_ZFS_FS      1
55 #endif /* ! codereview */
56
57 #ifdef __cplusplus
58 }
59 #endif
```

new/usr/src/cmd/oamuser/user/funcs.h

2

```
61 #endif /* _FUNCS_H */
```

new/usr/src/cmd/oamuser/user/homedir.c

1

```
*****
6696 Sat Sep 19 01:15:21 2015
new/usr/src/cmd/oamuser/user/homedir.c
293 useradd/del/mod should be ZFS-aware
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */

23 /*
24  * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
25  * Use is subject to license terms.
26 */

28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved */

32 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #include <sys/types.h>
33 #include <sys/stat.h>
34 #endif /* ! codereview */
35 #include <stdio.h>
36 #include <userdefs.h>
37 #include <errno.h>
38 #include <strings.h>
39 #include <sys/mntent.h>
40 #include <sys/mnttab.h>
41 #include <libzfs.h>
42 #include <libgen.h>
43 #include <limits.h>
44 #include <deflt.h>

46 #include "funcs.h"
47 #endif /* ! codereview */
48 #include "messages.h"

50 #define SBUF SZ 256

52 #define DEFAULT_USERADD "/etc/default/useradd"

54 static int rm_homedir();
55 static char *get_mnt_special();
35 extern int rm_homedir();

57 static char cmdbuf[ SBUF SZ ]; /* buffer for system call */
58 static char dhome[ PATH_MAX + 1 ]; /* buffer for dirname */
```

new/usr/src/cmd/oamuser/user/homedir.c

2

```
59 static char bhome[ PATH_MAX + 1 ]; /* buffer for basename */
60 static char pdir[ PATH_MAX + 1 ]; /* parent directory */
61 static libzfs_handle_t *g_zfs = NULL;
62 #endif /* ! codereview */

64 /*
65  * Create a home directory and populate with files from skeleton
66  * directory.
67  */
38      Create a home directory and populate with files from skeleton
39      directory.
40 */
68 int
69 create_home(char *homedir, char *skeldir, uid_t uid, gid_t gid, int flags)
42 create_home(char *homedir, char *skeldir, uid_t uid, gid_t gid)
70 /* home directory to create */
71 /* skel directory to copy if indicated */
72 /* uid of new user */
73 /* group id of new user */
74 /* miscellaneous flags */
75 #endif /* ! codereview */
76 {
77     struct stat stbuf;
78     char *dataset;
79     char *dname, *bname;

81     if (g_zfs == NULL)
82         g_zfs = libzfs_init();

84     (void) strcpy(dhome, homedir);
85     (void) strcpy(bhome, homedir);
86     dname = dirname(dhome);
87     bname = basename(bhome);
88     (void) strcpy(pdir, dname);

90     if ((stat(pdir, &stbuf) != 0) || !S_ISDIR(stbuf.st_mode)) {
91         errmsg(M_OOPS, "access the parent directory", strerror(errno));
92         if (g_zfs) {
93             libzfs_fini(g_zfs);
94             g_zfs = NULL;
95         }
96         return (EX_HOMEDIR);
97     }

99     if ((strcmp(stbuf.st_fstype, MNTTYPE_ZFS) == 0) &&
100 (g_zfs != NULL) && (flags & CHANGE_ZFS_FS) &&
101 ((dataset = get_mnt_special(pdir, stbuf.st_fstype)) != NULL)) {
102     char nm[ZFS_MAXNAMELEN];
103     zfs_handle_t *zhp;

105     (void) snprintf(nm, ZFS_MAXNAMELEN, "%s/%s", dataset, bname);

107     if ((zfs_create(g_zfs, nm, ZFS_TYPE_FILESYSTEM, NULL) != 0) ||
108 ((zhp = zfs_open(g_zfs, nm, ZFS_TYPE_FILESYSTEM)) ==
109 NULL)) {
110         errmsg(M_OOPS, "create the home directory",
111             libzfs_error_description(g_zfs));
112         libzfs_fini(g_zfs);
113         g_zfs = NULL;
114         return (EX_HOMEDIR);
115     }

117     if (zfs_mount(zhp, NULL, 0) != 0) {
118         errmsg(M_OOPS, "mount the home directory",
119             libzfs_error_description(g_zfs));
120         (void) zfs_destroy(zhp, B_FALSE);
```

```

121         zfs_close(zhp);
122         libzfs_fini(g_zfs);
123         g_zfs = NULL;
124         return (EX_HOMEDIR);
125     }
127     zfs_close(zhp);
129     if (chmod(homedir, S_IRWXU|S_IRGRP|S_IXGRP|S_IROTH|S_IXOTH)
130         != 0) {
131         errmsg(M_OOPS, "change permissions of home directory",
132             strerror(errno));
133         libzfs_fini(g_zfs);
134         g_zfs = NULL;
135         return (EX_HOMEDIR);
136     }
137 } else {
138     if (mkdir(homedir, S_IRWXU|S_IRGRP|S_IXGRP|S_IROTH|S_IXOTH)
139         != 0) {
140         errmsg(M_OOPS, "create the home directory",
141             strerror(errno));
142         if (g_zfs) {
143             libzfs_fini(g_zfs);
144             g_zfs = NULL;
145         }
146         return (EX_HOMEDIR);
147     }
148     if( mkdir(homedir, 0775) != 0 ) {
149         errmsg(M_OOPS, "create the home directory", strerror(errno));
150         return( EX_HOMEDIR );
151     }
152     if (chown(homedir, uid, gid) != 0) {
153         if (chown(homedir, uid, gid) != 0) {
154             errmsg(M_OOPS, "change ownership of home directory",
155                 strerror(errno));
156             if (g_zfs) {
157                 libzfs_fini(g_zfs);
158                 g_zfs = NULL;
159             }
160             return (EX_HOMEDIR);
161         }
162         return( EX_HOMEDIR );
163     }
164     if (skeldir) {
165         if(skeldir) {
166             /* copy the skel_dir into the home directory */
167             (void) sprintf(cmdbuf, "cd %s && find . -print | cpio -pd %s",
168                 (void) sprintf( cmdbuf, "cd %s && find . -print | cpio -pd %s",
169                     skeldir, homedir);
170             if (system(cmdbuf) != 0) {
171                 if( system( cmdbuf ) != 0 ) {
172                     errmsg(M_OOPS, "copy skeleton directory into home "
173                         "directory", strerror(errno));
174                     (void) rm_homedir(homedir, flags);
175                     if (g_zfs) {
176                         libzfs_fini(g_zfs);
177                         g_zfs = NULL;
178                     }
179                     return (EX_HOMEDIR);
180                 }
181                 (void) rm_homedir( homedir );
182                 return( EX_HOMEDIR );
183             }
184         }
185         /* make sure contents in the home dirctory have correct owner */

```

```

177         (void) sprintf(cmdbuf,
178             "cd %s && find . -exec chown %ld:%ld {} \\";";",
179             homedir, uid, gid);
180         if (system(cmdbuf) != 0) {
181             errmsg(M_OOPS,
182                 "change owner and group of files home directory",
183                 (void) sprintf( cmdbuf, "cd %s && find . -exec chown %ld {} \\";";",
184                     homedir, uid );
185             if( system( cmdbuf ) != 0 ) {
186                 errmsg(M_OOPS, "change owner of files home directory",
187                     strerror(errno));
188                 (void) rm_homedir(homedir, flags);
189                 if (g_zfs) {
190                     libzfs_fini(g_zfs);
191                     g_zfs = NULL;
192                 }
193                 return (EX_HOMEDIR);
194             }
195         }
196     #endif /* ! codereview */
197
198     (void) rm_homedir( homedir );
199     return( EX_HOMEDIR );
200 }
201
202 /* Remove a home directory structure */
203 int
204 rm_homedir(char *dir, int flags)
205 {
206     struct stat stbuf;
207     char *nm;
208
209     if ((stat(dir, &stbuf) != 0) || !S_ISDIR(stbuf.st_mode))
210         return (0);
211     #endif /* ! codereview */
212
213     if (g_zfs == NULL)
214         g_zfs = libzfs_init();
215
216     if ((strcmp(stbuf.st_fstype, MNTTYPE_ZFS) == 0) &&
217         (flags & CHANGE_ZFS_FS) &&
218         (g_zfs != NULL) &&
219         ((nm = get_mnt_special(dir, stbuf.st_fstype)) != NULL)) {
220         zfs_handle_t *zhp;
221
222         if ((zhp = zfs_open(g_zfs, nm, ZFS_TYPE_FILESYSTEM)) != NULL) {
223             if ((zfs_unmount(zhp, NULL, 0) == 0) &&
224                 (zfs_destroy(zhp, B_FALSE) == 0)) {
225                 zfs_close(zhp);
226                 return (0);
227             }
228         }
229         (void) zfs_mount(zhp, NULL, 0);
230         zfs_close(zhp);
231     }
232     /* and group..... */
233     (void) sprintf( cmdbuf, "cd %s && find . -exec chgrp %ld {} \\";";",
234         homedir, gid );
235     if( system( cmdbuf ) != 0 ) {
236         errmsg(M_OOPS, "change group of files home directory",
237             strerror(errno));

```

```

85         (void) rm_homedir( homedir );
86         return( EX_HOMEDIR );
231     }

233     (void) sprintf(cmdbuf, "rm -rf %s", dir);

235     return (system(cmdbuf));
236 }

238 int
239 rm_files(char *homedir, char *user, int flags)
240 {
241     if (rm_homedir(homedir, flags) != 0) {
242         errmsg(M_RMFILES);
243         return (EX_HOMEDIR);
244 #endif /* ! codereview */
245     }

247     return (EX_SUCCESS);
88     return( EX_SUCCESS );
248 }

91 /* Remove a home directory structure */
250 int
251 get_default_zfs_flags()
252 {
253     int flags = 0;

255     if (defopen(DEFAULT_USERADD) == 0) {
256         char *defptr;

258         if ((defptr = defread(CHANGE_ZFS_FS_OPT)) != NULL) {
259             char let = tolower(*defptr);

261             switch (let) {
262                 case 'y': /* yes */
263                     flags |= CHANGE_ZFS_FS;
264                 case 'n': /* no */
265                     break;
266             }
267         }
268         (void) defopen((char *)NULL);
269     }
270     return (flags);
271 }

273 /* Get the name of a mounted filesystem */
274 char *
275 get_mnt_special(char *mountp, char *fstype)
93 rm_homedir(char *dir)
276 {
277     struct mnttab entry, search;
278     char *special = NULL;
279     FILE *fp;

281     search.mnt_special = search.mnt_mntopts = search.mnt_time = NULL;
282     search.mnt_mountp = mountp;
283     search.mnt_fstype = fstype;

285     if ((fp = fopen(MNTTAB, "r")) != NULL) {
286         if (getmntany(fp, &entry, &search) == 0)
287             special = entry.mnt_special;

289         (void) fclose(fp);
290     }
95     (void) sprintf( cmdbuf, "rm -rf %s", dir );

```

```

292     return (special);
97     return( system( cmdbuf ) );
293 }
_____unchanged_portion_omitted_____

```

```

*****
4824 Sat Sep 19 01:15:21 2015
new/usr/src/cmd/oamuser/user/messages.c
293 useradd/del/mod should be ZFS-aware
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
22 /*      All Rights Reserved      */

25 /*
26  * Copyright (c) 2013 Gary Mills
27  *
28  * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
29  * Use is subject to license terms.
30  */

32 char *errmsgs[] = {
33     "WARNING: uid %ld is reserved.\n",
34     "WARNING: more than NGROUPS_MAX(%d) groups specified.\n",
35     "ERROR: invalid syntax.\n"
36     "usage: useradd [-u uid [-o] | -g group | -G group[,group]...] |"
37     "-d dir | -b base_dir |\n"
38     "\t\t-s shell | -c comment | -m [-z|Z] [-k skel_dir] |"
39     "-f inactive |\n"
40     "\t\t-s shell | -c comment | -m [-k skel_dir] | -f inactive |\n"
41     "\t\t-e expire | -A authorization [, authorization ...] |\n"
42     "\t\t-P profile [, profile ...] | -R role [, role ...] |\n"
43     "\t\t-K key=value | -p project [, project ...] login\n"
44     "\tuseradd -D [-g group | -b base_dir | -f inactive | -e expire\n"
45     "\t\t-A authorization [, authorization ...] |\n"
46     "\t\t-P profile [, profile ...] | -R role [, role ...] |\n"
47     "\t\t-K key=value ... -p project] | [-s shell] | [-k skel_dir]\n",
48     "ERROR: Invalid syntax.\nusage: userdel [-r [-z|Z]] login\n",
49     "ERROR: Invalid syntax.\nusage: userdel [-r] login\n",
50     "ERROR: Invalid syntax.\n"
51     "usage: usermod -u uid [-o] | -g group | -G group[,group]... |\n"
52     "\t\t-d dir [-m [-z|Z]] | -s shell | -c comment |\n"
53     "\t\t-d dir [-m] | -s shell | -c comment |\n"
54     "\t\t-l new_logname | -f inactive | -e expire |\n"
55     "\t\t-A authorization [, authorization ...] | -K key=value ... |\n"
56     "\t\t-P profile [, profile ...] | -R role [, role ...] login\n",
57     "ERROR: Unexpected failure. Defaults unchanged.\n",
58     "ERROR: Unable to remove files from home directory.\n",
59     "ERROR: Unable to remove home directory.\n",
60     "ERROR: Cannot update system files - login cannot be %s.\n",
61     "ERROR: uid %ld is already in use. Choose another.\n",

```

```

59     "ERROR: %s is already in use. Choose another.\n",
60     "ERROR: %s does not exist.\n",
61     "ERROR: %s is not a valid %s. Choose another.\n",
62     "ERROR: %s is in use. Cannot %s it.\n",
63     "WARNING: %s has no permissions to use %s.\n",
64     "ERROR: There is not sufficient space to move %s home directory to %s"
65     "\n",
66     "ERROR: %s %ld is too big. Choose another.\n",
67     "ERROR: group %s does not exist. Choose another.\n",
68     "ERROR: Unable to %s: %s.\n",
69     "ERROR: %s is not a full path name. Choose another.\n",
70     "ERROR: %s is the primary group name. Choose another.\n",
71     "ERROR: Inconsistent password files. See pwconv(1M).\n",
72     "ERROR: %s is not a local user.\n",
73     "ERROR: Permission denied.\n",
74     "WARNING: Group entry exceeds 2048 char: /etc/group entry truncated.\n",
75     "ERROR: invalid syntax.\n"
76     "usage: rolead [-u uid [-o] | -g group | -G group[,group]...] |"
77     "-d dir |\n"
78     "\t\t-s shell | -c comment | -m [-k skel_dir] | -f inactive |\n"
79     "\t\t-e expire | -A authorization [, authorization ...] |\n"
80     "\t\t-P profile [, profile ...] | -K key=value ] login\n"
81     "\troleadd -D [-g group | -b base_dir | -f inactive | -e expire\n"
82     "\t\t-A authorization [, authorization ...] |\n"
83     "\t\t-P profile [, profile ...] |\n",
84     "ERROR: Invalid syntax.\nusage: roledel [-r] login\n",
85     "ERROR: Invalid syntax.\n"
86     "usage: rolemod -u uid [-o] | -g group | -G group[,group]... |\n"
87     "\t\t-d dir [-m] | -s shell | -c comment |\n"
88     "\t\t-l new_logname | -f inactive | -e expire |\n"
89     "\t\t-A authorization [, authorization ...] | -K key=value |\n"
90     "\t\t-P profile [, profile ...] login\n",
91     "ERROR: project %s does not exist. Choose another.\n",
92     "WARNING: more than NPROJECTS_MAX(%d) projects specified.\n",
93     "WARNING: Project entry exceeds %d char: /etc/project entry truncated."
94     "\n",
95     "ERROR: Invalid key.\n",
96     "ERROR: Missing value specification.\n",
97     "ERROR: Multiple definitions of key ``%s``.\n",
98     "ERROR: Roles must be modified with ``rolemod``.\n",
99     "ERROR: Users must be modified with ``usermod``.\n",
100    "WARNING: gid %ld is reserved.\n",
101    "ERROR: Failed to read /etc/group file due to invalid entry or"
102    " read error.\n",
103    "ERROR: %s is too long. Choose another.\n",
104 };

```

unchanged portion omitted

```

*****
2487 Sat Sep 19 01:15:21 2015
new/usr/src/cmd/oamuser/user/movedir.c
293 useradd/del/mod should be ZFS-aware
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */

23 /*
24 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved      */

32 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #include <sys/types.h>
33 #include <stdio.h>
34 #include <userdefs.h>
35 #include "messages.h"
36 #include <unistd.h>
37 #include <sys/stat.h>
38 #include <utime.h>

40 #define SBUFSZ      256

42 extern int access(), rm_files();

44 static char cmdbuf[SBUFSZ];      /* buffer for system call */

46 /*
47  *      Move directory contents from one place to another
48  */
49 int
50 move_dir(char *from, char *to, char *login, int flags)
51 move_dir(char *from, char *to, char *login)
52 {
53     /* directory to move files from */
54     /* directory to move files to */
55     /* login id of owner */
56     /* miscellaneous flags */
57 #endif /* ! codereview */
58 {
59     size_t len = 0;
60     int rc = EX_SUCCESS;

```

```

59     struct stat statbuf;
60     struct utimbuf times;
61     /*
62      * ***** THIS IS WHERE SUFFICIENT SPACE CHECK GOES
63      */

65     if (access(from, F_OK) == 0) { /* home dir exists */
66         /* move all files */
67         (void) sprintf(cmdbuf,
68             "cd %s && find . -print | cpio -m -pd %s",
69             from, to);

71         if (system(cmdbuf) != 0) {
72             errmsg(M_NOSPACE, from, to);
73             return (EX_NOSPACE);
74         }

76         /*
77          * Check that to dir is not a subdirectory of from
78          */
79         len = strlen(from);
80         if (strncmp(from, to, len) == 0 &&
81             strncmp(to+len, "/", 1) == 0) {
82             errmsg(M_RMFILERS);
83             return (EX_HOMEDIR);
84         }
85         /* Retain the original permission and modification time */
86         if (stat(from, &statbuf) == 0) {
87             chmod(to, statbuf.st_mode);
88             times.actime = statbuf.st_atime;
89             times.modtime = statbuf.st_mtime;
90             (void) utime(to, &times);

92         }

94         /* Remove the files in the old place */
95         rc = rm_files(from, login, flags);
96         rc = rm_files(from, login);

97     }

99     return (rc);
100 }
_____unchanged_portion_omitted_

```

```

*****
18152 Sat Sep 19 01:15:21 2015
new/usr/src/cmd/oamuser/user/useradd.c
293 useradd/del/mod should be ZFS-aware
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22  * Copyright (c) 2013 Gary Mills
23  *
24  * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
25  * Use is subject to license terms.
26 */

28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved      */

31 /*
32  * Copyright (c) 2013 RackTop Systems.
33 */

35 #include      <sys/types.h>
36 #include      <sys/stat.h>
37 #include      <sys/param.h>
38 #include      <stdio.h>
39 #include      <stdlib.h>
40 #include      <ctype.h>
41 #include      <limits.h>
42 #include      <string.h>
43 #include      <userdefs.h>
44 #include      <errno.h>
45 #include      <project.h>
46 #include      <unistd.h>
47 #include      <user_attr.h>
48 #include      <libcmdutils.h>
49 #include      "users.h"
50 #include      "messages.h"
51 #include      "userdisp.h"
52 #include      "funcs.h"

54 /*
55  * useradd [-u uid [-o] | -g group | -G group [[, group]...]
56  *          | -d dir [-m [-z|Z]]
57  * useradd [-u uid [-o] | -g group | -G group [[, group]...] | -d dir [-m]
58  *          | -s shell | -c comment | -k skel_dir | -b base_dir ]
59  *          [ -A authorization [, authorization ...]
60  *          [ -P profile [, profile ...]]
61  *          [ -K key=value ]

```

```

61  *          [ -R role [, role ...]] [-p project [, project ...]] login
62  * useradd -D [ -g group ] [ -b base_dir | -f inactive | -e expire |
63  *            -s shell | -k skel_dir ]
64  *            [ -A authorization [, authorization ...]]
65  *            [ -P profile [, profile ...]] [ -K key=value ]
66  *            [ -R role [, role ...]] [-p project [, project ...]] login
67  *
68  * This command adds new user logins to the system. Arguments are:
69  *
70  * uid - an integer
71  * group - an existing group's integer ID or char string name
72  * dir - home directory
73  * shell - a program to be used as a shell
74  * comment - any text string
75  * skel_dir - a skeleton directory
76  * base_dir - a directory
77  * login - a string of printable chars except colon(:)
78  * authorization - One or more comma separated authorizations defined
79  *                 in auth_attr(4).
80  * profile - One or more comma separated execution profiles defined
81  *           in prof_attr(4)
82  * role - One or more comma-separated role names defined in user_attr(4)
83  * project - One or more comma-separated project names or numbers
84  *
85 */

87 extern struct userdefs *getusrdef();
88 extern void dispusrdef();

90 static void cleanup();

92 extern int check_perm(), valid_expire();
93 extern int putusrdef(), valid_uid();
94 extern int call_passmgmt(), edit_group(), create_home();
95 extern int edit_project();
96 extern int **valid_lgroup();
97 extern projid_t **valid_lproject();
98 extern void update_def(struct userdefs *);
99 extern void import_def(struct userdefs *);
100 extern int get_default_zfs_flags();
101 #endif /* ! codereview */

103 static uid_t uid; /* new uid */
104 static char *logname; /* login name to add */
105 static struct userdefs *usrdefs; /* defaults for useradd */

107 char *cmdname;

109 static char homedir[ PATH_MAX + 1 ]; /* home directory */
110 static char gidstring[32]; /* group id string representation */
111 static gid_t gid; /* gid of new login */
112 static char uidstring[32]; /* user id string representation */
113 static char *uidstr = NULL; /* uid from command line */
114 static char *base_dir = NULL; /* base_dir from command line */
115 static char *group = NULL; /* group from command line */
116 static char *grps = NULL; /* multi groups from command line */
117 static char *dir = NULL; /* home dir from command line */
118 static char *shell = NULL; /* shell from command line */
119 static char *comment = NULL; /* comment from command line */
120 static char *skel_dir = NULL; /* skel dir from command line */
121 static long inact; /* inactive days */
122 static char *inactstr = NULL; /* inactive from command line */
123 static char inactstring[10]; /* inactivity string representation */
124 static char *expirestr = NULL; /* expiration date from command line */
125 static char *projects = NULL; /* project id's from command line */

```



```

127 static char *usertype = NULL; /* type of user, either role or normal */

129 typedef enum {
130     BASEDIR = 0,
131     SKELDIR,
132     SHELL
133 } path_opt_t;

136 static void valid_input(path_opt_t, const char *);

138 int
139 main(argc, argv)
140 int argc;
141 char *argv[];
142 {
143     int ch, ret, mflag = 0, oflag = 0, Dflag = 0;
144     int zflag = 0, Zflag = 0, **gidlist = NULL;
145     int ch, ret, mflag = 0, oflag = 0, Dflag = 0, **gidlist = NULL;
146     projid_t **projlist = NULL;
147     char *ptr; /* loc in a str, may be set by strtol */
148     struct group *g_ptr;
149     struct project_p_ptr;
150     char mybuf[PROJECT_BUFSZ];
151     struct stat statbuf; /* status buffer for stat */
152     int warning;
153     int busy = 0;
154     char **nargv; /* arguments for execvp of passmgmt */
155     int argindex; /* argument index into nargv */
156     int zfs_flags = 0; /* create_home flags */
157 #endif /* ! codereview */

158     cmdname = argv[0];

160     if (geteuid() != 0) {
161         errmsg(M_PERM_DENIED);
162         exit(EX_NO_PERM);
163     }

165     opterr = 0; /* no print errors from getopt */
166     usertype = getusertype(argv[0]);

168     change_key(USERATTR_TYPE_KW, usertype);

170     while ((ch = getopt(argc, argv,
171         "b:c:Dd:e:f:G:g:k:mzZop:s:u:A:P:R:K:") != EOF)
172         || (ch = getopt(argc, argv,
173         "b:c:Dd:e:f:G:g:k:mop:s:u:A:P:R:K:") != EOF))
174     {
175         switch (ch) {
176             case 'b':
177                 base_dir = optarg;
178                 break;
179
180             case 'c':
181                 comment = optarg;
182                 break;
183
184             case 'D':
185                 Dflag++;
186                 break;
187
188             case 'd':
189                 dir = optarg;
190                 break;
191
192             case 'e':
193                 expirestr = optarg;

```

```

191         break;

193     case 'f':
194         inactstr = optarg;
195         break;

197     case 'G':
198         grps = optarg;
199         break;

201     case 'g':
202         group = optarg;
203         break;

205     case 'k':
206         skel_dir = optarg;
207         break;

209     case 'm':
210         mflag++;
211         break;

213     case 'o':
214         oflag++;
215         break;

217     case 'p':
218         projects = optarg;
219         break;

221     case 's':
222         shell = optarg;
223         break;

225     case 'u':
226         uidstr = optarg;
227         break;

229     case 'Z':
230         Zflag++;
231         break;

233     case 'z':
234         zflag++;
235         break;

237 #endif /* ! codereview */
238     case 'A':
239         change_key(USERATTR_AUTHS_KW, optarg);
240         break;

242     case 'P':
243         change_key(USERATTR_PROFILES_KW, optarg);
244         break;

246     case 'R':
247         if (is_role(usertype)) {
248             errmsg(M_ARUSAGE);
249             exit(EX_SYNTAX);
250         }
251         change_key(USERATTR_ROLES_KW, optarg);
252         break;

254     case 'K':
255         change_key(NULL, optarg);
256         break;

```

```

258         default:
259         case '?':
260             if (is_role(usertype))
261                 errmsg(M_ARUSAGE);
262             else
263                 errmsg(M_AUSAGE);
264             exit(EX_SYNTAX);
265         }
267     if (((!mflag) && (zflag || Zflag)) || (zflag && Zflag) ||
268         (mflag > 1 && (zflag || Zflag))) {
269         if (is_role(usertype))
270             errmsg(M_ARUSAGE);
271         else
272             errmsg(M_AUSAGE);
273         exit(EX_SYNTAX);
274     }
277 #endif /* ! codereview */
278 /* get defaults for adding new users */
279 usrdefs = getusrdef(usertype);
281     if (Dflag) {
282         /* DISPLAY mode */
284         /* check syntax */
285         if (optind != argc) {
286             if (is_role(usertype))
287                 errmsg(M_ARUSAGE);
288             else
289                 errmsg(M_AUSAGE);
290             exit(EX_SYNTAX);
291         }
293         if (uidstr != NULL || oflag || grps != NULL ||
294             dir != NULL || mflag || comment != NULL) {
295             if (is_role(usertype))
296                 errmsg(M_ARUSAGE);
297             else
298                 errmsg(M_AUSAGE);
299             exit(EX_SYNTAX);
300         }
302         /* Group must be an existing group */
303         if (group != NULL) {
304             switch (valid_group(group, &g_ptr, &warning)) {
305             case INVALID:
306                 errmsg(M_INVALID, group, "group id");
307                 exit(EX_BADARG);
308                 /*NOTREACHED*/
309             case TOOBIG:
310                 errmsg(M_TOOBIG, "gid", group);
311                 exit(EX_BADARG);
312                 /*NOTREACHED*/
313             case RESERVED:
314             case UNIQUE:
315                 errmsg(M_GRP_NOTUSED, group);
316                 exit(EX_NAME_NOT_EXIST);
317             }
318             if (warning)
319                 warningmsg(warning, group);
321             usrdefs->defgroup = g_ptr->gr_gid;
322             usrdefs->defgname = g_ptr->gr_name;

```

```

324     }
326     /* project must be an existing project */
327     if (projects != NULL) {
328         switch (valid_project(projects, &p_ptr, mybuf,
329             sizeof(mybuf), &warning)) {
330         case INVALID:
331             errmsg(M_INVALID, projects, "project id");
332             exit(EX_BADARG);
333             /*NOTREACHED*/
334         case TOOBIG:
335             errmsg(M_TOOBIG, "projid", projects);
336             exit(EX_BADARG);
337             /*NOTREACHED*/
338         case UNIQUE:
339             errmsg(M_PROJ_NOTUSED, projects);
340             exit(EX_NAME_NOT_EXIST);
341         }
342         if (warning)
343             warningmsg(warning, projects);
345         usrdefs->defproj = p_ptr.pj_projid;
346         usrdefs->defprojname = p_ptr.pj_name;
347     }
349     /* base_dir must be an existing directory */
350     if (base_dir != NULL) {
351         valid_input(BASEDIR, base_dir);
352         usrdefs->defparent = base_dir;
353     }
355     /* inactivity period is an integer */
356     if (inactstr != NULL) {
357         /* convert inactstr to integer */
358         inact = strtol(inactstr, &ptr, 10);
359         if (*ptr || inact < 0) {
360             errmsg(M_INVALID, inactstr,
361                 "inactivity period");
362             exit(EX_BADARG);
363         }
365         usrdefs->definact = inact;
366     }
368     /* expiration string is a date, newer than today */
369     if (expirestr != NULL) {
370         if (*expirestr) {
371             if (valid_expire(expirestr, (time_t *)0)
372                 == INVALID) {
373                 errmsg(M_INVALID, expirestr,
374                     "expiration date");
375                 exit(EX_BADARG);
376             }
377             usrdefs->defexpire = expirestr;
378         } else
379             /* Unset the expiration date */
380             usrdefs->defexpire = "";
381     }
383     if (shell != NULL) {
384         valid_input(SHELL, shell);
385         usrdefs->defshell = shell;
386     }
387     if (skel_dir != NULL) {
388         valid_input(SKELDIR, skel_dir);

```

```

389         usrdefs->defskel = skel_dir;
390     }
391     update_def(usrdefs);

393     /* change defaults for useradd */
394     if (putusrdef(usrdefs, usertype) < 0) {
395         errmsg(M_UPDATE, "created");
396         exit(EX_UPDATE);
397     }

399     /* Now, display */
400     dispusrdef(stdout, (D_ALL & ~D_RID), usertype);
401     exit(EX_SUCCESS);

403 }

405 /* ADD mode */

407 /* check syntax */
408 if (optind != argc - 1 || (skel_dir != NULL && !mflag)) {
409     if (is_role(usertype))
410         errmsg(M_ARUSAGE);
411     else
412         errmsg(M_AUSAGE);
413     exit(EX_SYNTAX);
414 }

416 logname = argv[optind];
417 switch (valid_login(logname, (struct passwd **)NULL, &warning)) {
418 case INVALID:
419     errmsg(M_INVALID, logname, "login name");
420     exit(EX_BADARG);
421     /*NOTREACHED*/

423 case NOTUNIQUE:
424     errmsg(M_USED, logname);
425     exit(EX_NAME_EXISTS);
426     /*NOTREACHED*/

428 case LONGNAME:
429     errmsg(M_TOO_LONG, logname);
430     exit(EX_BADARG);
431     /*NOTREACHED*/
432 }

434 if (warning)
435     warningmsg(warning, logname);
436 if (uidstr != NULL) {
437     /* convert uidstr to integer */
438     errno = 0;
439     uid = (uid_t)strtol(uidstr, &ptr, (int)10);
440     if (*ptr || errno == ERANGE) {
441         errmsg(M_INVALID, uidstr, "user id");
442         exit(EX_BADARG);
443     }

445     switch (valid_uid(uid, NULL)) {
446     case NOTUNIQUE:
447         if (!oflag) {
448             /* override not specified */
449             errmsg(M_UID_USED, uid);
450             exit(EX_ID_EXISTS);
451         }
452         break;
453     case RESERVED:
454         errmsg(M_RESERVED, uid);

```

```

455         break;
456     case TOOBIG:
457         errmsg(M_TOOBIG, "uid", uid);
458         exit(EX_BADARG);
459         break;
460     }

462 } else {

464     if (findnextuid(DEFRID+1, MAXUID, &uid) != 0) {
465         errmsg(M_INVALID, "default id", "user id");
466         exit(EX_ID_EXISTS);
467     }
468 }

470 if (group != NULL) {
471     switch (valid_group(group, &g_ptr, &warning)) {
472     case INVALID:
473         errmsg(M_INVALID, group, "group id");
474         exit(EX_BADARG);
475         /*NOTREACHED*/
476     case TOOBIG:
477         errmsg(M_TOOBIG, "gid", group);
478         exit(EX_BADARG);
479         /*NOTREACHED*/
480     case RESERVED:
481     case UNIQUE:
482         errmsg(M_GRP_NOTUSED, group);
483         exit(EX_NAME_NOT_EXIST);
484         /*NOTREACHED*/
485     }

487     if (warning)
488         warningmsg(warning, group);
489     gid = g_ptr->gr_gid;

491 } else gid = usrdefs->defgroup;

493 if (grps != NULL) {
494     if (!*grps)
495         /* ignore -G "" */
496         grps = (char *)0;
497     else if (!(gidlist = valid_lgroup(grps, gid)))
498         exit(EX_BADARG);
499 }

501 if (projects != NULL) {
502     if (!*projects)
503         projects = (char *)0;
504     else if (!(projlist = valid_lproject(projects)))
505         exit(EX_BADARG);
506 }

508 /* if base_dir is provided, check its validity; otherwise default */
509 if (base_dir != NULL)
510     valid_input(BASEDIR, base_dir);
511 else
512     base_dir = usrdefs->defparent;

514 if (dir == NULL) {
515     /* set homedir to home directory made from base_dir */
516     (void) sprintf(homedir, "%s/%s", base_dir, logname);

518 } else if (REL_PATH(dir)) {
519     errmsg(M_RELPATH, dir);
520     exit(EX_BADARG);

```

```

522     } else
523         (void) strcpy(homedir, dir);

525     if (mflag) {
526         /* Does home dir. already exist? */
527         if (stat(homedir, &statbuf) == 0) {
528             /* directory exists - don't try to create */
529             mflag = 0;

531             if (check_perm(statbuf, uid, gid, S_IXOTH) != 0)
532                 errmsg(M_NO_PERM, logname, homedir);
533         }
534     }
535     /*
536     * if shell, skel_dir are provided, check their validity.
537     * Otherwise default.
538     */
539     if (shell != NULL)
540         valid_input(SHELL, shell);
541     else
542         shell = usrdefs->defshell;

544     if (skel_dir != NULL)
545         valid_input(SKELDIR, skel_dir);
546     else
547         skel_dir = usrdefs->defskel;

549     if (inactstr != NULL) {
550         /* convert inactstr to integer */
551         inact = strtol(inactstr, &ptr, 10);
552         if (*ptr || inact < 0) {
553             errmsg(M_INVALID, inactstr, "inactivity period");
554             exit(EX_BADARG);
555         }
556     } else inact = usrdefs->definact;

558     /* expiration string is a date, newer than today */
559     if (expirestr != NULL) {
560         if (*expirestr) {
561             if (valid_expire(expirestr, (time_t *)0) == INVALID) {
562                 errmsg(M_INVALID, expirestr, "expiration date");
563                 exit(EX_BADARG);
564             }
565             usrdefs->defexpire = expirestr;
566         } else
567             /* Unset the expiration date */
568             expirestr = (char *)0;

570     } else expirestr = usrdefs->defexpire;

572     import_def(usrdefs);

574     /* must now call passmgmt */

576     /* set up arguments to passmgmt in nargv array */
577     nargv = malloc((30 + nkeys * 2) * sizeof(char *));
578     argindex = 0;
579     nargv[argindex++] = PASSMGMT;
580     nargv[argindex++] = "-a"; /* add */

582     if (comment != NULL) {
583         /* comment */
584         nargv[argindex++] = "-c";
585         nargv[argindex++] = comment;
586     }

```

```

588     /* flags for home directory */
589     nargv[argindex++] = "-h";
590     nargv[argindex++] = homedir;

592     /* set gid flag */
593     nargv[argindex++] = "-g";
594     (void) sprintf(gidstring, "%u", gid);
595     nargv[argindex++] = gidstring;

597     /* shell */
598     nargv[argindex++] = "-s";
599     nargv[argindex++] = shell;

601     /* set inactive */
602     nargv[argindex++] = "-f";
603     (void) sprintf(inactstring, "%ld", inact);
604     nargv[argindex++] = inactstring;

606     /* set expiration date */
607     if (expirestr != NULL) {
608         nargv[argindex++] = "-e";
609         nargv[argindex++] = expirestr;
610     }

612     /* set uid flag */
613     nargv[argindex++] = "-u";
614     (void) sprintf(uidstring, "%u", uid);
615     nargv[argindex++] = uidstring;

617     if (oflag) nargv[argindex++] = "-o";

619     if (nkeys > 1)
620         addkey_args(nargv, &argindex);

622     /* finally - login name */
623     nargv[argindex++] = logname;

625     /* set the last to null */
626     nargv[argindex++] = NULL;

628     /* now call passmgmt */
629     ret = PEX_FAILED;
630     /*
631     * If call_passmgmt fails for any reason other than PEX_BADUID, exit
632     * is invoked with an appropriate error message. If PEX_BADUID is
633     * returned, then if the user specified the ID, exit is invoked
634     * with an appropriate error message. Otherwise we try to pick a
635     * different ID and try again. If we run out of IDs, i.e. no more
636     * users can be created, then -1 is returned and we terminate via exit.
637     * If PEX_BUSY is returned we increment a count, since we will stop
638     * trying if PEX_BUSY reaches 3. For PEX_SUCCESS we immediately
639     * terminate the loop.
640     */
641     while (busy < 3 && ret != PEX_SUCCESS) {
642         switch (ret = call_passmgmt(nargv)) {
643             case PEX_SUCCESS:
644                 break;
645             case PEX_BUSY:
646                 busy++;
647                 break;
648             case PEX_HOSED_FILES:
649                 errmsg(M_HOSED_FILES);
650                 exit(EX_INCONSISTENT);
651             break;

```

```

653     case PEX_SYNTAX:
654     case PEX_BADARG:
655         /* should NEVER occur that passmgmt usage is wrong */
656         if (is_role(usertype))
657             errmsg(M_ARUSAGE);
658         else
659             errmsg(M_AUSAGE);
660         exit(EX_SYNTAX);
661         break;

663     case PEX_BADUID:
664         /*
665          * The uid has been taken. If it was specified by a
666          * user, then we must fail. Otherwise, keep trying
667          * to get a good uid until we run out of IDs.
668          */
669         if (uidstr != NULL) {
670             errmsg(M_UID_USED, uid);
671             exit(EX_ID_EXISTS);
672         } else {
673             if (findnextuid(DEFRID+1, MAXUID, &uid) != 0) {
674                 errmsg(M_INVALID, "default id",
675                     "user id");
676                 exit(EX_ID_EXISTS);
677             }
678             (void) sprintf(uidstring, "%u", uid);
679         }
680         break;

682     case PEX_BADNAME:
683         /* invalid loname */
684         errmsg(M_USED, logname);
685         exit(EX_NAME_EXISTS);
686         break;

688     default:
689         errmsg(M_UPDATE, "created");
690         exit(ret);
691         break;
692     }
693 }
694 if (busy == 3) {
695     errmsg(M_UPDATE, "created");
696     exit(ret);
697 }

699 /* add group entry */
700 if ((grps != NULL) && edit_group(logname, (char *)0, gidlist, 0)) {
701     errmsg(M_UPDATE, "created");
702     cleanup(logname);
703     exit(EX_UPDATE);
704 }

706 /* update project database */
707 if ((projects != NULL) &&
708     edit_project(logname, (char *)NULL, projlist, 0)) {
709     errmsg(M_UPDATE, "created");
710     cleanup(logname);
711     exit(EX_UPDATE);
712 }

714 /* create home directory */
715 if (mflag) {
716     zfs_flags = get_default_zfs_flags();
718     if (zflag || mflag > 1)

```

```

719         zfs_flags |= CHANGE_ZFS_FS;
720     else if (Zflag)
721         zfs_flags &= ~CHANGE_ZFS_FS;
722     ret = create_home(homedir, skel_dir, uid, gid, zfs_flags);
723 }
724 if (ret != EX_SUCCESS) {
725     (void) edit_project(logname, (char *)NULL, (projid_t **)NULL,
726         0);
727     if (mflag &&
728         (create_home(homedir, skel_dir, uid, gid) != EX_SUCCESS)) {
729         (void) edit_group(logname, (char *)0, (int **)0, 1);
730         cleanup(logname);
731         exit(EX_HOMEDIR);
732     }
733 }
734 return (ret);
735 }

```

unchanged portion omitted

new/usr/src/cmd/oamuser/user/useradd.dfl

1

1442 Sat Sep 19 01:15:22 2015

new/usr/src/cmd/oamuser/user/useradd.dfl

293 useradd/del/mod should be ZFS-aware

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 # Copyright (c) 2013 Gary Mills

24 # The EXCEED_TRAD indicates the action when the traditional login name
25 # length limit of eight characters is exceeded. The value "warning"
26 # means to issue a warning message and continue. This is the default.
27 # The value "error" means to issue an error message and terminate.
28 # The value "silent" means to continue without issuing any message.
29 #
30 EXCEED_TRAD=warning
31 #EXCEED_TRAD=error
32 #EXCEED_TRAD=silent

34 # The CHANGE_ZFS_FS indicates if ZFS create/destroy operations
35 # should be performed by default when user passes -m flag to
36 # userdel/usermod or -r flag to userdel
37 CHANGE_ZFS_FS=no
38 #CHANGE_ZFS_FS=yes
39 #endif /* ! codereview */
```

new/usr/src/cmd/oamuser/user/userdel.c

1

```
*****
5630 Sat Sep 19 01:15:22 2015
new/usr/src/cmd/oamuser/user/userdel.c
293 useradd/del/mod should be ZFS-aware
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
22 /*      All Rights Reserved */

25 /*
26 * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
27 * Use is subject to license terms.
28 */

30 #include <sys/types.h>
31 #include <sys/stat.h>
32 #include <stdio.h>
33 #include <ctype.h>
34 #include <limits.h>
35 #include <pwd.h>
36 #include <project.h>
37 #include <string.h>
38 #include <sys/types.h>
39 #include <sys/stat.h>
40 #include <userdefs.h>
41 #include <stdlib.h>
42 #include <errno.h>
43 #include <unistd.h>
44 #include <strings.h>
45 #include "users.h"
46 #include "messages.h"
47 #include "funcs.h"

49 /*
50 * userdel [-r [-z|Z]] login
51 */
52 * userdel [-r] login
53 *
54 * This command deletes user logins. Arguments are:
55 *
56 * -r - when given, this option removes home directory & its contents
57 *
58 * login - a string of printable chars except colon (:)
```

new/usr/src/cmd/oamuser/user/userdel.c

2

```
59 extern int check_perm(), isbusy(), get_default_zfs_flags();
59 extern int check_perm(), isbusy();
60 extern int rm_files(), call_passmgmt(), edit_group();

62 static char *logname; /* login name to delete */
63 static char *nargv[20]; /* arguments for execvp of passmgmt */

65 char *cmdname;

67 int
68 main(int argc, char **argv)
69 {
70     int ch, ret = 0, rflag = 0, zflag = 0, Zflag = 0;
71     int zfs_flags = 0, argindex, tries;
72     struct passwd *pstruct;
73     struct stat statbuf;
74 #ifndef att
75     FILE *pwf; /* fille ptr for opened passwd file */
76 #endif
77     char *usertype = NULL;
78     int rc;

80     cmdname = argv[0];

82     if (geteuid() != 0) {
83         errmsg(M_PERM_DENIED);
84         exit(EX_NO_PERM);
85     }
86     if (geteuid() != 0) {
87         errmsg( M_PERM_DENIED );
88         exit( EX_NO_PERM );
89     }

90     opterr = 0; /* no print errors from getopt */
91     usertype = getusertype(argv[0]);

92     while ((ch = getopt(argc, argv, "rzZ")) != EOF) {
93         switch (ch) {
94             case 'r':
95                 rflag++;
96                 break;
97             case 'Z':
98                 Zflag++;
99                 break;
100            case 'z':
101                zflag++;
102                break;
103            #endif /* ! codereview */
104            case '?':
105                if (is_role(usertype))
106                    errmsg(M_DRUSAGE);
107                else
108                    errmsg(M_DUSAGE);
109                exit(EX_SYNTAX);
110            }
111        }

112        if (optind != argc - 1) {
113            if (optind != argc - 1) {
114                if (is_role(usertype))
115                    errmsg(M_DRUSAGE);
116            }
117        }
118    }
119 }
```

```

103         errmsg( M_DRUSAGE );
114     else
115         errmsg(M_DUSAGE);
116     exit(EX_SYNTAX);
117 }
119 if (((!rflag) && (Zflag || zflag)) || (Zflag && zflag)) {
120     if (is_role(usertype))
121         errmsg(M_DRUSAGE);
122     else
123         errmsg(M_DUSAGE);
124     exit(EX_SYNTAX);
125     errmsg( M_DUSAGE );
126     exit( EX_SYNTAX );
127 }
128 logname = argv[optind];
129 #ifdef att
130     pstruct = getpwnam(logname);
131 #else
132     /*
133     * Do this with fgetpwent to make sure we are only looking on local
134     * system (since passmgmt only works on local system).
135     */
136     if ((pwf = fopen("/etc/passwd", "r")) == NULL) {
137         errmsg(M_OOPS, "open", "/etc/passwd");
138         errmsg( M_OOPS, "open", "/etc/passwd");
139         exit(EX_FAILURE);
140     }
141     while ((pstruct = fgetpwent(pwf)) != NULL)
142         if (strcmp(pstruct->pw_name, logname) == 0)
143             break;
144     fclose(pwf);
145 #endif
147 if (pstruct == NULL) {
148     errmsg(M_EXIST, logname);
149     exit(EX_NAME_NOT_EXIST);
150     errmsg( M_EXIST, logname );
151     exit( EX_NAME_NOT_EXIST );
152 }
153 if (isbusy(logname)) {
154     errmsg(M_BUSY, logname, "remove");
155     exit(EX_BUSY);
156 }
157 if (isbusy(logname)) {
158     errmsg( M_BUSY, logname, "remove" );
159     exit( EX_BUSY );
160 }
161 /* that's it for validations - now do the work */
162 /* set up arguments to passmgmt in nargv array */
163 nargv[0] = PASSMGMT;
164 nargv[1] = "-d"; /* delete */
165 argindex = 2; /* next argument */
167 /* finally - login name */
168 nargv[argindex++] = logname;
170 /* set the last to null */
171 nargv[argindex++] = NULL;
173 /* remove home directory */
174 if (rflag) {

```

```

152     if( rflag ) {
153         /* Check Permissions */
154         if (stat(pstruct->pw_dir, &statbuf)) {
155             if( stat( pstruct->pw_dir, &statbuf ) ) {
156                 errmsg(M_OOPS, "find status about home directory",
157                     strerror(errno));
158                 exit(EX_HOMEDIR);
159                 exit( EX_HOMEDIR );
160             }
161         }
162         if (check_perm(statbuf, pstruct->pw_uid, pstruct->pw_gid,
163             S_IWOTH|S_IXOTH) != 0) {
164             errmsg(M_NO_PERM, logname, pstruct->pw_dir);
165             exit(EX_HOMEDIR);
166         }
167         zfs_flags = get_default_zfs_flags();
168         if (zflag)
169             zfs_flags |= CHANGE_ZFS_FS;
170         else if (Zflag)
171             zfs_flags &= ~CHANGE_ZFS_FS;
172         if( check_perm( statbuf, pstruct->pw_uid, pstruct->pw_gid,
173             S_IWOTH|S_IXOTH ) != 0 ) {
174             errmsg( M_NO_PERM, logname, pstruct->pw_dir );
175             exit( EX_HOMEDIR );
176         }
177     }
178     if (rm_files(pstruct->pw_dir, logname, zfs_flags) != EX_SUCCESS)
179         exit(EX_HOMEDIR);
180     if (rm_files(pstruct->pw_dir, logname) != EX_SUCCESS )
181         exit( EX_HOMEDIR );
182 }
183 /* now call passmgmt */
184 ret = PEX_FAILED;
185 for (tries = 3; ret != PEX_SUCCESS && tries--;) {
186     switch (ret = call_passmgmt(nargv)) {
187     for( tries = 3; ret != PEX_SUCCESS && tries--; ) {
188         switch( ret = call_passmgmt( nargv ) ) {
189         case PEX_SUCCESS:
190             ret = edit_group(logname, (char *)0, (int **)0, 1);
191             if (ret != EX_SUCCESS)
192                 errmsg(M_UPDATE, "deleted");
193             ret = edit_group( logname, (char *)0, (int **)0, 1 );
194             if( ret != EX_SUCCESS )
195                 errmsg( M_UPDATE, "deleted" );
196             break;
197         case PEX_BUSY:
198             break;
199         case PEX_HOSED_FILES:
200             errmsg(M_HOSED_FILES);
201             exit(EX_INCONSISTENT);
202             errmsg( M_HOSED_FILES );
203             exit( EX_INCONSISTENT );
204             break;
205         case PEX_SYNTAX:
206         case PEX_BADARG:
207             /* should NEVER occur that passmgmt usage is wrong */
208             if (is_role(usertype))
209                 errmsg(M_DRUSAGE);
210                 errmsg( M_DRUSAGE );
211             else
212                 errmsg(M_DUSAGE);
213                 exit(EX_SYNTAX);

```



```

194         errmsg( M_DUSAGE );
195         exit( EX_SYNTAX );
219         break;

221     case PEX_BADUID:
222     /*
223     * uid is used - shouldn't happen but print message anyway
224     */
225         errmsg(M_UID_USED, pstruct->pw_uid);
226         exit(EX_ID_EXISTS);
199         /* uid is used - shouldn't happen but print message anyw
200         errmsg( M_UID_USED, pstruct->pw_uid );
201         exit( EX_ID_EXISTS );
227         break;

229     case PEX_BADNAME:
230         /* invalid loname */
231         errmsg(M_USED, logname);
232         exit(EX_NAME_EXISTS);
206         errmsg( M_USED, logname);
207         exit( EX_NAME_EXISTS );
233         break;

235     default:
236         errmsg(M_UPDATE, "deleted");
237         exit(ret);
211         errmsg( M_UPDATE, "deleted" );
212         exit( ret );
238         break;
239     }
240 }
241 if (tries == 0)
242     errmsg(M_UPDATE, "deleted");
216 if( tries == 0 )
217     errmsg( M_UPDATE, "deleted" );

244 /*
245  * Now, remove this user from all project entries
246  */

248     rc = edit_project(logname, (char *)0, (projid_t **)0, 1);
249     if (rc != EX_SUCCESS) {
250         errmsg(M_UPDATE, "modified");
251         exit(rc);
252     }

254     exit(ret);
229     exit( ret );
255     /*NOTREACHED*/
256 }

```

_____unchanged_portion_omitted_____

```

*****
16251 Sat Sep 19 01:15:22 2015
new/usr/src/cmd/oamuser/user/usermod.c
293 useradd/del/mod should be ZFS-aware
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22  * Copyright (c) 2013 Gary Mills
23  *
24  * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
25  * Use is subject to license terms.
26 */

28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved */

31 /*
32  * Copyright (c) 2013 RackTop Systems.
33 */

35 #include <sys/types.h>
36 #include <sys/stat.h>
37 #include <sys/param.h>
38 #include <stdio.h>
39 #include <stdlib.h>
40 #include <ctype.h>
41 #include <limits.h>
42 #include <string.h>
43 #include <userdefs.h>
44 #include <user_attr.h>
45 #include <nss_dbdefs.h>
46 #include <errno.h>
47 #include <project.h>
48 #include "users.h"
49 #include "messages.h"
50 #include "funcs.h"

52 /*
53  * usermod [-u uid [-o] | -g group | -G group [[,group]...]
54  *          | -d dir [-m [-z|Z]]
55  * usermod [-u uid [-o] | -g group | -G group [[,group]...] | -d dir [-m]
56  *          -s shell | -c comment | -l new_logname]
57  *          [-f inactive | -e expire ]
58  *          [-A authorization [, authorization ...]]
59  *          [-P profile [, profile ...]]
60  *          [-R role [, role ...]]
61  *          [-K key=value ]

```

```

61  *          [ -p project [, project]] login
62  *
63  *          This command adds new user logins to the system. Arguments are:
64  *
65  *          uid - an integer less than MAXUID
66  *          group - an existing group's integer ID or char string name
67  *          dir - a directory
68  *          shell - a program to be used as a shell
69  *          comment - any text string
70  *          skel_dir - a directory
71  *          base_dir - a directory
72  *          rid - an integer less than 2**16 (USHORT)
73  *          login - a string of printable chars except colon (:)
74  *          inactive - number of days a login maybe inactive before it is locked
75  *          expire - date when a login is no longer valid
76  *          authorization - One or more comma separated authorizations defined
77  *                        in auth_attr(4).
78  *          profile - One or more comma separated execution profiles defined
79  *                  in prof_attr(4)
80  *          role - One or more comma-separated role names defined in user_attr(4)
81  *          key=value - One or more -K options each specifying a valid user_attr(4)
82  *                    attribute.
83  *
84  */

86 extern int **valid_lgroup(), isbusy(), get_default_zfs_flags();
85 extern int **valid_lgroup(), isbusy();
87 extern int valid_uid(), check_perm(), create_home(), move_dir();
88 extern int valid_expire(), edit_group(), call_passmgmt();
89 extern projid_t **valid_lproject();

91 static uid_t uid; /* new uid */
92 static gid_t gid; /* gid of new login */
93 static char *new_logname = NULL; /* new login name with -l option */
94 static char *uidstr = NULL; /* uid from command line */
95 static char *group = NULL; /* group from command line */
96 static char *grps = NULL; /* multi groups from command line */
97 static char *dir = NULL; /* home dir from command line */
98 static char *shell = NULL; /* shell from command line */
99 static char *comment = NULL; /* comment from command line */
100 static char *logname = NULL; /* login name to add */
101 static char *inactstr = NULL; /* inactive from command line */
102 static char *expire = NULL; /* expiration date from command line */
103 static char *projects = NULL; /* project ids from command line */
104 static char *usertype;

106 char *cmdname;
107 static char gidstring[32], uidstring[32];
108 char inactstring[10];

110 char *
111 strcpmalloc(str)
112 char *str;
113 {
114     if (str == NULL)
115         return (NULL);

117     return (strdup(str));
118 }

unchanged_portion_omitted

144 int
145 main(argc, argv)
146 int argc;
147 char **argv;
148 {

```

```

149 int ch, ret = EX_SUCCESS, call_pass = 0, oflag = 0, zfs_flags = 0;
150 int tries, mflag = 0, inact, **gidlist, flag = 0, zflag = 0, Zflag = 0;
148 int ch, ret = EX_SUCCESS, call_pass = 0, oflag = 0;
149 int tries, mflag = 0, inact, **gidlist, flag = 0;
151 boolean_t fail_if_busy = B_FALSE;
152 char *ptr;
153 struct passwd *pstruct; /* password struct for login */
154 struct passwd *pw;
155 struct group *g_ptr; /* validated group from -g */
156 struct stat statbuf; /* status buffer for stat */
157 #ifndef att
158 FILE *pwf; /* fille ptr for opened passwd file */
159 #endif
160 int warning;
161 projid_t **projlist;
162 char **nargv; /* arguments for execvp of passgmt */
163 int argindex; /* argument index into nargv */
164 userattr_t *ua;
165 char *val;
166 int isrole; /* current account is role */

168 cmdname = argv[0];

170 if (geteuid() != 0) {
171     errmsg(M_PERM_DENIED);
172     exit(EX_NO_PERM);
173 }

175 opterr = 0; /* no print errors from getopt */
176 /* get user type based on the program name */
177 usertype = getusertype(argv[0]);

179 while ((ch = getopt(argc, argv,
180 "c:d:e:f:G:g:l:mzZop:s:u:A:P:R:K:") != EOF)
179 "c:d:e:f:G:g:l:mop:s:u:A:P:R:K:") != EOF)
181     switch (ch) {
182     case 'c':
183         comment = optarg;
184         flag++;
185         break;
186     case 'd':
187         dir = optarg;
188         fail_if_busy = B_TRUE;
189         flag++;
190         break;
191     case 'e':
192         expire = optarg;
193         flag++;
194         break;
195     case 'f':
196         inactstr = optarg;
197         flag++;
198         break;
199     case 'G':
200         grps = optarg;
201         flag++;
202         break;
203     case 'g':
204         group = optarg;
205         fail_if_busy = B_TRUE;
206         flag++;
207         break;
208     case 'l':
209         new_logname = optarg;
210         fail_if_busy = B_TRUE;
211         flag++;

```

```

212         break;
213     case 'm':
214         mflag++;
215         flag++;
216         fail_if_busy = B_TRUE;
217         break;
218     case 'o':
219         oflag++;
220         flag++;
221         fail_if_busy = B_TRUE;
222         break;
223     case 'p':
224         projects = optarg;
225         flag++;
226         break;
227     case 's':
228         shell = optarg;
229         flag++;
230         break;
231     case 'u':
232         uidstr = optarg;
233         flag++;
234         fail_if_busy = B_TRUE;
235         break;
236     case 'Z':
237         Zflag++;
238         break;
239     case 'z':
240         zflag++;
241         break;
242     #endif /* ! codereview */
243     case 'A':
244         change_key(USERATTR_AUTHS_KW, optarg);
245         flag++;
246         break;
247     case 'P':
248         change_key(USERATTR_PROFILES_KW, optarg);
249         flag++;
250         break;
251     case 'R':
252         change_key(USERATTR_ROLES_KW, optarg);
253         flag++;
254         break;
255     case 'K':
256         change_key(NULL, optarg);
257         flag++;
258         break;
259     default:
260     case '?':
261         if (is_role(usertype))
262             errmsg(M_MRUSAGE);
263         else
264             errmsg(M_MUSAGE);
265         exit(EX_SYNTAX);
266     }

268 if (((!mflag) && (zflag || Zflag)) || (zflag && Zflag) ||
269 (mflag > 1 && (zflag || Zflag))) {
270     if (is_role(usertype))
271         errmsg(M_ARUSAGE);
272     else
273         errmsg(M_AUSAGE);
274     exit(EX_SYNTAX);
275 }

```

```

278 #endif /* ! codereview */
279     if (optind != argc - 1 || flag == 0) {
280         if (is_role(usertype))
281             errmsg(M_MRUSAGE);
282         else
283             errmsg(M_MUSAGE);
284         exit(EX_SYNTAX);
285     }
287     if ((!uidstr && oflag) || (mflag && !dir)) {
288         if (is_role(usertype))
289             errmsg(M_MRUSAGE);
290         else
291             errmsg(M_MUSAGE);
292         exit(EX_SYNTAX);
293     }
295     logname = argv[optind];
297     /* Determine whether the account is a role or not */
298     if ((ua = getusernam(logname)) == NULL ||
299         (val = kva_match(ua->attr, USERATTR_TYPE_KW)) == NULL ||
300         strcmp(val, USERATTR_TYPE_NONADMIN_KW) != 0)
301         isrole = 0;
302     else
303         isrole = 1;
305     /* Verify that rolemod is used for roles and usermod for users */
306     if (isrole != is_role(usertype)) {
307         if (isrole)
308             errmsg(M_ISROLE);
309         else
310             errmsg(M_ISUSER);
311         exit(EX_SYNTAX);
312     }
314     /* Set the usertype key; defaults to the commandline */
315     usertype = getsetdefval(USERATTR_TYPE_KW, usertype);
317     if (is_role(usertype)) {
318         /* Roles can't have roles */
319         if (getsetdefval(USERATTR_ROLES_KW, NULL) != NULL) {
320             errmsg(M_MRUSAGE);
321             exit(EX_SYNTAX);
322         }
323         /* If it was an ordinary user, delete its roles */
324         if (!isrole)
325             change_key(USERATTR_ROLES_KW, "");
326     }
328 #ifdef att
329     pw = getpwnam(logname);
330 #else
331     /*
332     * Do this with fgetpwent to make sure we are only looking on local
333     * system (since passmgmt only works on local system).
334     */
335     if ((pwf = fopen("/etc/passwd", "r")) == NULL) {
336         errmsg(M_OOPS, "open", "/etc/passwd");
337         exit(EX_FAILURE);
338     }
339     while ((pw = fgetpwent(pwf)) != NULL)
340         if (strcmp(pw->pw_name, logname) == 0)
341             break;
343     fclose(pwf);

```

```

344 #endif
346     if (pw == NULL) {
347         char          pwdb[NSS_BUFLLEN_PASSWD];
348         struct passwd  pw;
350         if (getpwnam_r(logname, &pw, pwdb, sizeof (pwdb)) == NULL) {
351             /* This user does not exist. */
352             errmsg(M_EXIST, logname);
353             exit(EX_NAME_NOT_EXIST);
354         } else {
355             /* This user exists in non-local name service. */
356             errmsg(M_NONLOCAL, logname);
357             exit(EX_NOT_LOCAL);
358         }
359     }
361     pstruct = passwd_cpmalloc(pw);
363     /*
364     * We can't modify a logged in user if any of the following
365     * are being changed:
366     * uid (-u & -o), group (-g), home dir (-m), loginname (-l).
367     * If none of those are specified it is okay to go ahead
368     * some types of changes only take effect on next login, some
369     * like authorisations and profiles take effect instantly.
370     * One might think that -K type=role should require that the
371     * user not be logged in, however this would make it very
372     * difficult to make the root account a role using this command.
373     */
374     if (isbusy(logname)) {
375         if (fail_if_busy) {
376             errmsg(M_BUSY, logname, "change");
377             exit(EX_BUSY);
378         }
379         warningmsg(WARN_LOGGED_IN, logname);
380     }
382     if (new_logname && strcmp(new_logname, logname)) {
383         switch (valid_login(new_logname, (struct passwd **)NULL,
384             &warning)) {
385             case INVALID:
386                 errmsg(M_INVALID, new_logname, "login name");
387                 exit(EX_BADARG);
388                 /*NOTREACHED*/
390             case NOTUNIQUE:
391                 errmsg(M_USED, new_logname);
392                 exit(EX_NAME_EXISTS);
393                 /*NOTREACHED*/
395             case LONGNAME:
396                 errmsg(M_TOO_LONG, new_logname);
397                 exit(EX_BADARG);
398                 /*NOTREACHED*/
400             default:
401                 call_pass = 1;
402                 break;
403         }
404         if (warning)
405             warningmsg(warning, logname);
406     }
408     if (uidstr) {
409         /* convert uidstr to integer */

```

```

410     errno = 0;
411     uid = (uid_t)strtol(uidstr, &ptr, (int)10);
412     if (*ptr || errno == ERANGE) {
413         errmsg(M_INVALID, uidstr, "user id");
414         exit(EX_BADARG);
415     }
417     if (uid != pstruct->pw_uid) {
418         switch (valid_uid(uid, NULL)) {
419             case NOTUNIQUE:
420                 if (!oflag) {
421                     /* override not specified */
422                     errmsg(M_UID_USED, uid);
423                     exit(EX_ID_EXISTS);
424                 }
425                 break;
426             case RESERVED:
427                 errmsg(M_RESERVED, uid);
428                 break;
429             case TOOBIG:
430                 errmsg(M_TOOBIG, "uid", uid);
431                 exit(EX_BADARG);
432                 break;
433         }
435         call_pass = 1;
437     } else {
438         /* uid's the same, so don't change anything */
439         uidstr = NULL;
440         oflag = 0;
441     }
443 } else uid = pstruct->pw_uid;
445 if (group) {
446     switch (valid_group(group, &g_ptr, &warning)) {
447         case INVALID:
448             errmsg(M_INVALID, group, "group id");
449             exit(EX_BADARG);
450             /*NOTREACHED*/
451         case TOOBIG:
452             errmsg(M_TOOBIG, "gid", group);
453             exit(EX_BADARG);
454             /*NOTREACHED*/
455         case UNIQUE:
456             errmsg(M_GRP_NOTUSED, group);
457             exit(EX_NAME_NOT_EXIST);
458             /*NOTREACHED*/
459         case RESERVED:
460             gid = (gid_t)strtol(group, &ptr, (int)10);
461             errmsg(M_RESERVED_GID, gid);
462             break;
463     }
464     if (warning)
465         warningmsg(warning, group);
467     if (g_ptr != NULL)
468         gid = g_ptr->gr_gid;
469     else
470         gid = pstruct->pw_gid;
472     /* call passgmt if gid is different, else ignore group */
473     if (gid != pstruct->pw_gid)
474         call_pass = 1;
475     else group = NULL;

```

```

477     } else gid = pstruct->pw_gid;
479     if (grps && *grps) {
480         if (!(gidlist = valid_lgroup(grps, gid)))
481             exit(EX_BADARG);
482     } else
483         gidlist = (int **)0;
485     if (projects && *projects) {
486         if (!(projlist = valid_lproject(projects)))
487             exit(EX_BADARG);
488     } else
489         projlist = (projid_t **)0;
491     if (dir) {
492         if (REL_PATH(dir)) {
493             errmsg(M_RELPATH, dir);
494             exit(EX_BADARG);
495         }
496         if (strcmp(pstruct->pw_dir, dir) == 0) {
497             /* home directory is the same so ignore dflag & mflag */
498             dir = NULL;
499             mflag = 0;
500         } else call_pass = 1;
501     }
503     if (mflag) {
504         if (stat(dir, &statbuf) == 0) {
505             /* Home directory exists */
506             if (check_perm(statbuf, pstruct->pw_uid,
507                 pstruct->pw_gid, S_IWOTH|S_IXOTH) != 0) {
508                 errmsg(M_NO_PERM, logname, dir);
509                 exit(EX_NO_PERM);
510             }
512         } else {
513             zfs_flags = get_default_zfs_flags();
514             if (zflag || mflag > 1)
515                 zfs_flags |= CHANGE_ZFS_FS;
516             else if (zflag)
517                 zfs_flags &= ~CHANGE_ZFS_FS;
518             ret = create_home(dir, NULL, uid, gid, zfs_flags);
519         }
520     } else ret = create_home(dir, NULL, uid, gid);
522     if (ret == EX_SUCCESS)
523         ret = move_dir(pstruct->pw_dir, dir,
524             logname, zfs_flags);
525     ret = move_dir(pstruct->pw_dir, dir, logname);
526     if (ret != EX_SUCCESS)
527         exit(ret);
529     if (shell) {
530         if (REL_PATH(shell)) {
531             errmsg(M_RELPATH, shell);
532             exit(EX_BADARG);
533         }
534         if (strcmp(pstruct->pw_shell, shell) == 0) {
535             /* ignore s option if shell is not different */
536             shell = NULL;
537         } else {
538             if (stat(shell, &statbuf) < 0 ||
539                 (statbuf.st_mode & S_IFMT) != S_IFREG ||

```

```

540             (statbuf.st_mode & 0555) != 0555) {
542                 errmsg(M_INVALID, shell, "shell");
543                 exit(EX_BADARG);
544             }
546             call_pass = 1;
547         }
548     }
550     if (comment) {
551         /* ignore comment if comment is not changed */
552         if (strcmp(pstruct->pw_comment, comment))
553             call_pass = 1;
554         else
555             comment = NULL;
556     }
558     /* inactive string is a positive integer */
559     if (inactstr) {
560         /* convert inactstr to integer */
561         inact = (int)strtol(inactstr, &ptr, 10);
562         if (*ptr || inact < 0) {
563             errmsg(M_INVALID, inactstr, "inactivity period");
564             exit(EX_BADARG);
565         }
566         call_pass = 1;
567     }
569     /* expiration string is a date, newer than today */
570     if (expire) {
571         if (*expire &&
572             valid_expire(expire, (time_t *)0) == INVALID) {
573             errmsg(M_INVALID, expire, "expiration date");
574             exit(EX_BADARG);
575         }
576         call_pass = 1;
577     }
579     if (nkeys > 0)
580         call_pass = 1;
582     /* that's it for validations - now do the work */
584     if (grps) {
585         /* redefine login's supplementary group memberships */
586         ret = edit_group(logname, new_logname, gidlist, 1);
587         if (ret != EX_SUCCESS) {
588             errmsg(M_UPDATE, "modified");
589             exit(ret);
590         }
591     }
592     if (projects) {
593         ret = edit_project(logname, (char *)NULL, projlist, 0);
594         if (ret != EX_SUCCESS) {
595             errmsg(M_UPDATE, "modified");
596             exit(ret);
597         }
598     }
601     if (!call_pass) exit(ret);
603     /* only get to here if need to call passmgmt */
604     /* set up arguments to passmgmt in nargv array */
605     nargv = malloc((30 + nkeys * 2) * sizeof(char *));

```

```

607     argindex = 0;
608     nargv[argindex++] = PASSMGMT;
609     nargv[argindex++] = "-m"; /* modify */
611     if (comment) { /* comment */
612         nargv[argindex++] = "-c";
613         nargv[argindex++] = comment;
614     }
616     if (dir) {
617         /* flags for home directory */
618         nargv[argindex++] = "-h";
619         nargv[argindex++] = dir;
620     }
622     if (group) {
623         /* set gid flag */
624         nargv[argindex++] = "-g";
625         (void) sprintf(gidstring, "%u", gid);
626         nargv[argindex++] = gidstring;
627     }
629     if (shell) { /* shell */
630         nargv[argindex++] = "-s";
631         nargv[argindex++] = shell;
632     }
634     if (inactstr) {
635         nargv[argindex++] = "-f";
636         nargv[argindex++] = inactstr;
637     }
639     if (expire) {
640         nargv[argindex++] = "-e";
641         nargv[argindex++] = expire;
642     }
644     if (uidstr) { /* set uid flag */
645         nargv[argindex++] = "-u";
646         (void) sprintf(uidstring, "%u", uid);
647         nargv[argindex++] = uidstring;
648     }
650     if (oflag) nargv[argindex++] = "-o";
652     if (new_logname) { /* redefine login name */
653         nargv[argindex++] = "-l";
654         nargv[argindex++] = new_logname;
655     }
657     if (nkeys > 0)
658         addkey_args(nargv, &argindex);
660     /* finally - login name */
661     nargv[argindex++] = logname;
663     /* set the last to null */
664     nargv[argindex++] = NULL;
666     /* now call passmgmt */
667     ret = PEX_FAILED;
668     for (tries = 3; ret != PEX_SUCCESS && tries--;) {
669         switch (ret = call_passmgmt(nargv)) {
670             case PEX_SUCCESS:
671                 case PEX_BUSY:

```

```
672             break;

674     case PEX_HOSED_FILES:
675         errmsg(M_HOSED_FILES);
676         exit(EX_INCONSISTENT);
677         break;

679     case PEX_SYNTAX:
680     case PEX_BADARG:
681         /* should NEVER occur that passmgmt usage is wrong */
682         if (is_role(usertype))
683             errmsg(M_MRUSAGE);
684         else
685             errmsg(M_MUSAGE);
686         exit(EX_SYNTAX);
687         break;

689     case PEX_BADUID:
690         /* uid in use - shouldn't happen print message anyway */
691         errmsg(M_UID_USED, uid);
692         exit(EX_ID_EXISTS);
693         break;

695     case PEX_BADNAME:
696         /* invalid loname */
697         errmsg(M_USED, logname);
698         exit(EX_NAME_EXISTS);
699         break;

701     default:
702         errmsg(M_UPDATE, "modified");
703         exit(ret);
704         break;
705     }
706 }
707 if (tries == 0) {
708     errmsg(M_UPDATE, "modified");
709 }

711 exit(ret);
712 /*NOTREACHED*/
713 }
```

unchanged portion omitted

```

*****
13350 Sat Sep 19 01:15:22 2015
new/usr/src/man/man1m/useradd.1m
293 useradd/del/mod should be ZFS-aware
*****
1 \" te
2 .\" Copyright (c) 2013 Gary Mills
3 .\" Copyright (c) 2008 Sun Microsystems, Inc. All Rights Reserved.
4 .\" Copyright 1989 AT&T
5 .\" The contents of this file are subject to the terms of the Common Development
6 .\" You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE or http:
7 .\" When distributing Covered Code, include this CDDL HEADER in each file and in
8 .TH USERADD 1M \"Apr 16, 2013\"
9 .SH NAME
10 useradd \- administer a new user login on the system
11 .SH SYNOPSIS
12 .LP
13 .nf
14 \fBuseradd\fR [\fB-A\fR \fIauthorization\fR [, \fIauthorization...\fR]]
15 [\fB-b\fR \fIbase_dir\fR] [\fB-c\fR \fIcomment\fR] [\fB-d\fR \fIidir\fR] [\f
16 [\fB-f\fR \fIinactive\fR] [\fB-g\fR \fIgroup\fR] [\fB-G\fR \fIgroup\fR [, \f
17 [\fB-K\fR \fIkey=value\fR] [\fB-m\fR [\fB-z|-Z\fR] [\fB-k\fR \fIiskel_dir\fR
18 [\fB-k\fR \fIkey=value\fR] [\fB-m\fR [\fB-k\fR \fIiskel_dir\fR]] [\fB-p\fR \f
19 [\fB-P\fR \fIprofile\fR [, \fIprofile...\fR]] [\fB-R\fR \fIrole\fR [, \fIrole
20 [\fB-s\fR \fIshell\fR] [\fB-u\fR \fIuid\fR] [\fB-o\fR]] \fIlogin\fR
21
22 .LP
23 .nf
24 \fBuseradd\fR \fB-D\fR [\fB-A\fR \fIauthorization\fR [, \fIauthorization...\fR]]
25 [\fB-b\fR \fIbase_dir\fR] [\fB-s\fR \fIshell\fR] [\fB-k\fR \fIiskel_dir\fR]]
26 [\fB-f\fR \fIinactive\fR] [\fB-g\fR \fIgroup\fR] [\fB-K\fR \fIkey=value\fR]
27 [\fB-P\fR \fIprofile\fR [, \fIprofile...\fR]] [\fB-R\fR \fIrole\fR [, \fIrole
28 .fi
29
30 .SH DESCRIPTION
31 .sp
31 .LP
32 \fBuseradd\fR adds a new user to the \fB/etc/passwd\fR and \fB/etc/shadow\fR
33 and \fB/etc/user_attr\fR files. The \fB-A\fR and \fB-P\fR options respectively
34 assign authorizations and profiles to the user. The \fB-R\fR option assigns
35 roles to a user. The \fB-p\fR option associates a project with a user. The
36 \fB-K\fR option adds a \fIkey=value\fR pair to \fB/etc/user_attr\fR for the
37 user. Multiple \fIkey=value\fR pairs may be added with multiple \fB-K\fR
38 options.
39 .sp
40 .LP
41 \fBuseradd\fR also creates supplementary group memberships for the user
42 (\fB-G\fR option) and creates the home directory (\fB-m\fR option) for the user
43 if requested. The new login remains locked until the \fBpasswd\fR(1) command is
44 executed.
45 .sp
46 .LP
47 Specifying \fBuseradd\fR \fB-D\fR with the \fB-s\fR, \fB-k\fR, \fB-g\fR,
48 \fB-b\fR, \fB-f\fR, \fB-e\fR, \fB-A\fR, \fB-P\fR, \fB-p\fR, \fB-R\fR, or
49 \fB-K\fR option (or any combination of these options) sets the default values
50 for the respective fields. See the \fB-D\fR option, below. Subsequent
51 \fBuseradd\fR commands without the \fB-D\fR option use these arguments.
52 .sp
53 .LP
54 The system file entries created with this command have a limit of 2048
55 characters per line. Specifying long arguments to several options can exceed
56 this limit.
57 .sp
58 .LP
59 \fBuseradd\fR requires that usernames be in the format described in

```

```

60 \fBpasswd\fR(4). A warning message is displayed if these restrictions are not
61 met. See \fBpasswd\fR(4) for the requirements for usernames.
62 .LP
63 To change the action of \fBuseradd\fR when the traditional login name
64 length limit of eight characters is exceeded, edit the file
65 \fB/etc/default/useradd\fR by removing the \fB#\fR (pound sign) before the
66 appropriate \fBEXCEED_TRAD=\fR entry, and adding it before the others.
67 .SH OPTIONS
68 .sp
69 The following options are supported:
70 .sp
71 .ne 2
72 .na
73 \fB\fB-A\fR \fIauthorization\fR\fR
74 .ad
75 .sp .6
76 .RS 4n
77 One or more comma separated authorizations defined in \fBauth_attr\fR(4). Only
78 a user or role who has \fBgrant\fR rights to the authorization can assign it to
79 an account.
80 .RE
81
82 .sp
83 .ne 2
84 .na
85 \fB\fB-b\fR \fIbase_dir\fR\fR
86 .ad
87 .sp .6
88 .RS 4n
89 The base directory for new login home directories (see the \fB-d\fR option
90 below. When a new user account is being created, \fIbase_dir\fR must already
91 exist unless the \fB-m\fR option or the \fB-D\fR option is also specified.
92 .RE
93
94 .sp
95 .ne 2
96 .na
97 \fB\fB-c\fR \fIcomment\fR\fR
98 .ad
99 .sp .6
100 .RS 4n
101 Any text string. It is generally a short description of the login, and is
102 currently used as the field for the user's full name. This information is
103 stored in the user's \fB/etc/passwd\fR entry.
104 .RE
105
106 .sp
107 .ne 2
108 .na
109 \fB\fB-d\fR \fIidir\fR\fR
110 .ad
111 .sp .6
112 .RS 4n
113 The home directory of the new user. It defaults to
114 \fIbase_dir\fR/\fIaccount_name\fR, where \fIbase_dir\fR is the base directory
115 for new login home directories and \fIaccount_name\fR is the new login name.
116 .RE
117
118 .sp
119 .ne 2
120 .na
121 \fB\fB-D\fR\fR
122 .ad
123 .sp .6
124 .RS 4n

```



```

125 Display the default values for \fBgroup\fR, \fBbase_dir\fR, \fBskel_dir\fR,
126 \fBshell\fR, \fBinactive\fR, \fBexpire\fR, \fBproj\fR, \fBprojname\fR and
127 \fBkey=value\fR pairs. When used with the \fB-g\fR, \fB-b\fR, \fB-f\fR,
128 \fB-e\fR, \fB-A\fR, \fB-P\fR, \fB-p\fR, \fB-R\fR, or \fB-K\fR options, the
129 \fB-D\fR option sets the default values for the specified fields. The default
130 values are:
131 .sp
132 .ne 2
133 .na
134 \fBgroup\fR
135 .ad
136 .sp .6
137 .RS 4n
138 \fBOther\fR (\fBGID\fR of 1)
139 .RE

141 .sp
142 .ne 2
143 .na
144 \fBbase_dir\fR
145 .ad
146 .sp .6
147 .RS 4n
148 \fB/home\fR
149 .RE

151 .sp
152 .ne 2
153 .na
154 \fBskel_dir\fR
155 .ad
156 .sp .6
157 .RS 4n
158 \fB/etc/skel\fR
159 .RE

161 .sp
162 .ne 2
163 .na
164 \fBshell\fR
165 .ad
166 .sp .6
167 .RS 4n
168 \fB/bin/sh\fR
169 .RE

171 .sp
172 .ne 2
173 .na
174 \fBinactive\fR
175 .ad
176 .sp .6
177 .RS 4n
178 \fB0\fR
179 .RE

181 .sp
182 .ne 2
183 .na
184 \fBexpire\fR
185 .ad
186 .sp .6
187 .RS 4n
188 null
189 .RE

```

```

191 .sp
192 .ne 2
193 .na
194 \fBauths\fR
195 .ad
196 .sp .6
197 .RS 4n
198 null
199 .RE

201 .sp
202 .ne 2
203 .na
204 \fBprofiles\fR
205 .ad
206 .sp .6
207 .RS 4n
208 null
209 .RE

211 .sp
212 .ne 2
213 .na
214 \fBproj\fR
215 .ad
216 .sp .6
217 .RS 4n
218 \fB3\fR
219 .RE

221 .sp
222 .ne 2
223 .na
224 \fBprojname\fR
225 .ad
226 .sp .6
227 .RS 4n
228 \fBdefault\fR
229 .RE

231 .sp
232 .ne 2
233 .na
234 \fBkey=value (pairs defined in \fBuser_attr\fR(4))\fR
235 .ad
236 .sp .6
237 .RS 4n
238 not present
239 .RE

241 .sp
242 .ne 2
243 .na
244 \fBroles\fR
245 .ad
246 .sp .6
247 .RS 4n
248 null
249 .RE

251 .RE

253 .sp
254 .ne 2
255 .na
256 \fB\fB-e\fR \fBexpire\fR\fR

```

```

257 .ad
258 .sp .6
259 .RS 4n
260 Specify the expiration date for a login. After this date, no user will be able
261 to access this login. The expire option argument is a date entered using one of
262 the date formats included in the template file \fB/etc/datemsk\fR. See
263 \fBgetdate\fR(3C).
264 .sp
265 If the date format that you choose includes spaces, it must be quoted. For
266 example, you can enter \fB10/6/90\fR or \fBOctober 6, 1990\fR. A null value
267 (\fB" "\fR) defeats the status of the expired date. This option is useful for
268 creating temporary logins.
269 .RE

271 .sp
272 .ne 2
273 .na
274 \fB\fB-f\fR \fIinactive\fR\fR
275 .ad
276 .sp .6
277 .RS 4n
278 The maximum number of days allowed between uses of a login ID before that
279 \fBID\fR is declared invalid. Normal values are positive integers. A value of
280 \fB0\fR defeats the status.
281 .RE

283 .sp
284 .ne 2
285 .na
286 \fB\fB-g\fR \fIgroup\fR\fR
287 .ad
288 .sp .6
289 .RS 4n
290 An existing group's integer \fBID\fR or character-string name. Without the
291 \fB-D\fR option, it defines the new user's primary group membership and
292 defaults to the default group. You can reset this default value by invoking
293 \fBuseradd\fR \fB-D\fR \fB-g\fR \fIgroup\fR. GIDs 0-99 are reserved for
294 allocation by the Solaris Operating System.
295 .RE

297 .sp
298 .ne 2
299 .na
300 \fB\fB-G\fR \fIgroup\fR\fR
301 .ad
302 .sp .6
303 .RS 4n
304 An existing group's integer \fBID\fR or character-string name. It defines the
305 new user's supplementary group membership. Duplicates between \fIgroup\fR with
306 the \fB-g\fR and \fB-G\fR options are ignored. No more than \fBNGROUPS_MAX\fR
307 groups can be specified. GIDs 0-99 are reserved for allocation by the Solaris
308 Operating System.
309 .RE

311 .sp
312 .ne 2
313 .na
314 \fB\fB-K\fR \fIkey=value\fR\fR
315 .ad
316 .sp .6
317 .RS 4n
318 A \fIkey=value\fR pair to add to the user's attributes. Multiple \fB-K\fR
319 options may be used to add multiple \fIkey=value\fR pairs. The generic \fB-K\fR
320 option with the appropriate key may be used instead of the specific implied key
321 options (\fB-A\fR, \fB-P\fR, \fB-R\fR, \fB-p\fR). See \fBuser_attr\fR(4) for a
322 list of valid \fIkey=value\fR pairs. The "type" key is not a valid key for this

```

```

323 option. Keys may not be repeated.
324 .RE

326 .sp
327 .ne 2
328 .na
329 \fB\fB-k\fR \fIskel_dir\fR\fR
330 .ad
331 .sp .6
332 .RS 4n
333 A directory that contains skeleton information (such as \fB&.profile\fR) that
334 can be copied into a new user's home directory. This directory must already
335 exist. The system provides the \fB/etc/skel\fR directory that can be used for
336 this purpose.
337 .RE

339 .sp
340 .ne 2
341 .na
342 \fB\fB-m\fR \fR [\fB-z|-Z\fR]
343 .ad
344 \fB\fB-m\fR \fR
345 .sp .6
346 .RS 4n
347 Create the new user's home directory if it does not already exist. If the
348 directory already exists, it must have read, write, and execute permissions by
349 \fIgroup\fR, where \fIgroup\fR is the user's primary group.
350 CHANGE_ZFS_FS option in /etc/default/useradd file determines if ZFS filesystem
351 will be created for new user. If this option is set to yes and parent directory
352 of user's home directory is ZFS filesystem mount point, a new ZFS filesystem is
353 created. \fB-z\fR and \fB-Z\fR options allow overwrite default behavior.
354 If \fB-z\fR option is specified, \fBuseradd\fR tries to create new file system
355 for user. If \fB-Z\fR option is specified, new file system is not created.
356 #endif /* !codereview */
357 .RE

358 .sp
359 .ne 2
360 .na
361 \fB\fB-o\fR \fR
362 .ad
363 .sp .6
364 .RS 4n
365 This option allows a \fBUID\fR to be duplicated (non-unique).
366 .RE

368 .sp
369 .ne 2
370 .na
371 \fB\fB-P\fR \fIprofile\fR\fR
372 .ad
373 .sp .6
374 .RS 4n
375 One or more comma-separated execution profiles defined in \fBprof_attr\fR(4).
376 .RE

378 .sp
379 .ne 2
380 .na
381 \fB\fB-p\fR \fIprojname\fR\fR
382 .ad
383 .sp .6
384 .RS 4n
385 Name of the project with which the added user is associated. See the
386 \fIprojname\fR field as defined in \fBproject\fR(4).
387 .RE

```

```

389 .sp
390 .ne 2
391 .na
392 \fB\fB-R\fR \fIrole\fR\fR
393 .ad
394 .sp .6
395 .RS 4n
396 One or more comma-separated execution profiles defined in \fBuser_attr\fR(4).
397 Roles cannot be assigned to other roles.
398 .RE

400 .sp
401 .ne 2
402 .na
403 \fB\fB-s\fR \fIshell\fR\fR
404 .ad
405 .sp .6
406 .RS 4n
407 Full pathname of the program used as the user's shell on login. It defaults to
408 an empty field causing the system to use \fB/bin/sh\fR as the default. The
409 value of \fIshell\fR must be a valid executable file.
410 .RE

412 .sp
413 .ne 2
414 .na
415 \fB\fB-u\fR \fIuid\fR\fR
416 .ad
417 .sp .6
418 .RS 4n
419 The \fBUID\fR of the new user. This \fBUID\fR must be a non-negative decimal
420 integer below \fBMAXUID\fR as defined in \fB<sys/param.h>\fR. The \fBUID\fR
421 defaults to the next available (unique) number above the highest number
422 currently assigned. For example, if \fBUIDs 100, 105, and 200 are assigned,
423 the next default \fBUID\fR number will be 201. \fBUIDs \fB0\fR-\fB99\fR are
424 reserved for allocation by the Solaris Operating System.
425 .RE

427 .SH FILES
351 .sp
428 .LP
429 \fB/etc/default/useradd\fR
430 .sp
431 .LP
432 \fB/etc/datemsk\fR
433 .sp
434 .LP
435 \fB/etc/passwd\fR
436 .sp
437 .LP
438 \fB/etc/shadow\fR
439 .sp
440 .LP
441 \fB/etc/group\fR
442 .sp
443 .LP
444 \fB/etc/skel\fR
445 .sp
446 .LP
447 \fB/usr/include/limits.h\fR
448 .sp
449 .LP
450 \fB/etc/user_attr\fR
451 .SH ATTRIBUTES
376 .sp

```

```

452 .LP
453 See \fBattributes\fR(5) for descriptions of the following attributes:
454 .sp

456 .sp
457 .TS
458 box;
459 c | c
460 l | l .
461 ATTRIBUTE TYPE ATTRIBUTE VALUE
462 _
463 Interface Stability Committed
464 .TE

466 .SH SEE ALSO
392 .sp
467 .LP
468 \fBpasswd\fR(1), \fBprofiles\fR(1), \fBroles\fR(1), \fBusers\fR(1B),
469 \fBgroupadd\fR(1M), \fBgroupdel\fR(1M), \fBgroupmod\fR(1M), \fBgrpck\fR(1M),
470 \fBlogin\fR(1M), \fBpwck\fR(1M), \fBuserdel\fR(1M), \fBusermod\fR(1M),
471 \fBgetdate\fR(3C), \fBauth_attr\fR(4), \fBpasswd\fR(4), \fBprof_attr\fR(4),
472 \fBproject\fR(4), \fBuser_attr\fR(4), \fBattributes\fR(5)
473 .SH DIAGNOSTICS
400 .sp
474 .LP
475 In case of an error, \fBuseradd\fR prints an error message and exits with a
476 non-zero status.
477 .sp
478 .LP
479 The following indicates that \fBlogin\fR specified is already in use:
480 .sp
481 .in +2
482 .nf
483 UX: useradd: ERROR: login is already in use. Choose another.
484 .fi
485 .in -2
486 .sp

488 .sp
489 .LP
490 The following indicates that the \fIuid\fR specified with the \fB-u\fR option
491 is not unique:
492 .sp
493 .in +2
494 .nf
495 UX: useradd: ERROR: uid \fIuid\fR is already in use. Choose another.
496 .fi
497 .in -2
498 .sp

500 .sp
501 .LP
502 The following indicates that the \fIgroup\fR specified with the \fB-g\fR option
503 is already in use:
504 .sp
505 .in +2
506 .nf
507 UX: useradd: ERROR: group \fIgroup\fR does not exist. Choose another.
508 .fi
509 .in -2
510 .sp

512 .sp
513 .LP
514 The following indicates that the \fIuid\fR specified with the \fB-u\fR option
515 is in the range of reserved \fBUIDs (from \fB0\fR-\fB99\fR):

```

```
516 .sp
517 .in +2
518 .nf
519 UX: useradd: WARNING: uid \fIuid\fR is reserved.
520 .fi
521 .in -2
522 .sp

524 .sp
525 .LP
526 The following indicates that the \fIuid\fR specified with the \fB-u\fR option
527 exceeds \fBMAXUID\fR as defined in \fB<sys/param.h>\fR:
528 .sp
529 .in +2
530 .nf
531 UX: useradd: ERROR: uid \fIuid\fR is too big. Choose another.
532 .fi
533 .in -2
534 .sp

536 .sp
537 .LP
538 The following indicates that the \fB/etc/passwd\fR or \fB/etc/shadow\fR files
539 do not exist:
540 .sp
541 .in +2
542 .nf
543 UX: useradd: ERROR: Cannot update system files - login cannot be created.
544 .fi
545 .in -2
546 .sp

548 .SH NOTES
476 .sp
549 .LP
550 The \fBuseradd\fR utility adds definitions to only the local \fB/etc/group\fR,
551 \fB/etc/passwd\fR, \fB/etc/passwd\fR, \fB/etc/shadow\fR, \fB/etc/project\fR, and
552 \fB/etc/user_attr\fR files. If a network name service such as \fBNIS\fR or
553 \fBNIS+\fR is being used to supplement the local \fB/etc/passwd\fR file with
554 additional entries, \fBuseradd\fR cannot change information supplied by the
555 network name service. However \fBuseradd\fR will verify the uniqueness of the
556 user name (or role) and user id and the existence of any group names specified
557 against the external name service.
```

new/usr/src/man/man1m/userdel.1m

1

4066 Sat Sep 19 01:15:22 2015

new/usr/src/man/man1m/userdel.1m

293 useradd/del/mod should be ZFS-aware

```
1 \" te
2.\" Copyright 1989 AT&T Copyright (c) 1999,
3.\" Sun Microsystems, Inc. All Rights Reserved
4.\" The contents of this file are subject to the terms of the Common Development
5.\" You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE or http:
6.\" When distributing Covered Code, include this CDDL HEADER in each file and in
7.TH USERDEL 1M "Sep 8, 1999"
8.SH NAME
9 userdel \- delete a user's login from the system
10.SH SYNOPSIS
11.LP
12.nf
13 \fBuserdel\fR [\fB-r\fR [\fB-z|-Z\fR]] \fIlogin\fR
13 \fBuserdel\fR [\fB-r\fR] \fIlogin\fR
14 .fi
16.SH DESCRIPTION
17.sp
17.LP
18 The \fBuserdel\fR utility deletes a user account from the system and makes the
19 appropriate account-related changes to the system file and file system.
20.SH OPTIONS
22.sp
21.LP
22 The following options are supported:
23.sp
24.ne 2
25.na
26 \fB-r\fR [\fB-z|-Z\fR]
28 \fB-r\fR
27.ad
28.RS 6n
29 Remove the user's home directory from the system. This directory must exist.
30 The files and directories under the home directory will no longer be accessible
31 following successful execution of the command.
32 CHANGE_ZFS_FS option in /etc/default/useradd file determines if ZFS filesystem
33 underlying user home directory will be destroyed. If user's home directory is a
34 ZFS file system and CHANGE_ZFS_FS option is set to yes, the filesystem
35 will be destroyed. \fB-z\fR and \fB-Z\fR options allow overwrite default behavior
36 If \fB-z\fR option is specified, \fBuserdel\fR tries to destroy file system.
37 If \fB-Z\fR option is specified, file system is not destroyed.
38 #endif /* ! codereview */
39 .RE
41.SH OPERANDS
34.sp
42.LP
43 The following operands are supported:
44.sp
45.ne 2
46.na
47 \fBlogin\fR
48.ad
49.RS 9n
50 An existing login name to be deleted.
51 .RE
53.SH EXIT STATUS
47.sp
54.LP
55 The following exit values are returned:
```

new/usr/src/man/man1m/userdel.1m

2

```
56 .sp
57 .ne 2
58 .na
59 \fBlogin\fR
60 .ad
61.RS 6n
62 Successful completion.
63 .RE
65.sp
66.ne 2
67.na
68 \fBlogin\fR
69 .ad
70.RS 6n
71 Invalid command syntax. A usage message for the \fBuserdel\fR command is
72 displayed.
73 .RE
75.sp
76.ne 2
77.na
78 \fBlogin\fR
79 .ad
80.RS 6n
81 The account to be removed does not exist.
82 .RE
84.sp
85.ne 2
86.na
87 \fBlogin\fR
88 .ad
89.RS 6n
90 The account to be removed is in use.
91 .RE
93.sp
94.ne 2
95.na
96 \fBlogin\fR
97 .ad
98.RS 6n
99 Cannot update the \fB/etc/group\fR or \fB/etc/user_attr\fR file but the login
100 is removed from the \fB/etc/passwd\fR file.
101 .RE
103.sp
104.ne 2
105.na
106 \fBlogin\fR
107 .ad
108.RS 6n
109 Cannot remove or otherwise modify the home directory.
110 .RE
112.SH FILES
113.ne 2
114.na
115 \fB/etc/default/useradd\fR
116 .ad
117.RS 18n
118 useradd, usermod and userdel configuration file
119 .RE
121 #endif /* ! codereview */
```

```
122 .sp
123 .ne 2
124 .na
125 \fB\fB/etc/passwd\fR\fR
126 .ad
127 .RS 18n
128 system password file
129 .RE

131 .sp
132 .ne 2
133 .na
134 \fB\fB/etc/shadow\fR\fR
135 .ad
136 .RS 18n
137 system file contain users' encrypted passwords and related information
138 .RE

140 .sp
141 .ne 2
142 .na
143 \fB\fB/etc/group\fR\fR
144 .ad
145 .RS 18n
146 system file containing group definitions
147 .RE

149 .sp
150 .ne 2
151 .na
152 \fB\fB/etc/user_attr\fR\fR
153 .ad
154 .RS 18n
155 system file containing additional user attributes
156 .RE

158 .SH SEE ALSO
107 .sp
159 .LP
160 \fB\fBauths\fR(1), \fB\fBpasswd\fR(1), \fB\fBprofiles\fR(1), \fB\fBroles\fR(1),
161 \fB\fBusers\fR(1B), \fB\fBgroupadd\fR(1M), \fB\fBgroupdel\fR(1M), \fB\fBgroupmod\fR(1M),
162 \fB\fBlogins\fR(1M), \fB\fBroleadd\fR(1M), \fB\fBrolemod\fR(1M), \fB\fBuseradd\fR(1M),
163 \fB\fBuserdel\fR(1M), \fB\fBusermod\fR(1M), \fB\fBpasswd\fR(4), \fB\fBprof_attr\fR(4),
164 \fB\fBuser_attr\fR(4), \fB\fBattributes\fR(5)
165 .SH NOTES
115 .sp
166 .LP
167 The \fB\fBuserdel\fR utility only deletes an account definition that is in the
168 local \fB\fB/etc/group\fR, \fB\fB/etc/passwd\fR, \fB\fB/etc/shadow\fR, and
169 \fB\fB/etc/user_attr\fR file. file. If a network name service such as \fB\fBNIS\fR or
170 \fB\fBNIS+\fR is being used to supplement the local \fB\fB/etc/passwd\fR file with
171 additional entries, \fB\fBuserdel\fR cannot change information supplied by the
172 network name service.
```

```

*****
13107 Sat Sep 19 01:15:23 2015
new/usr/src/man/man1m/usermod.1m
293 useradd/del/mod should be ZFS-aware
*****
1 \" te
2 .\" Copyright 1989 AT&T Copyright (c) 2004, 2009, Sun Microsystems, Inc. All Rig
3 .\" The contents of this file are subject to the terms of the Common Development
4 .\" You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE or http:
5 .\" When distributing Covered Code, include this CDDL HEADER in each file and in
6 .TH USERMOD 1M "Feb 22, 2008"
7 .SH NAME
8 usermod \- modify a user's login information on the system
9 .SH SYNOPSIS
10 .LP
11 .nf
12 \fBusermod\fR [\fB-u\fR \fIuid\fR [\fB-o\fR]] [\fB-g\fR \fIgroup\fR] [\fB-G\fR \
13 [\fB-d\fR \fIidir\fR [\fB-m\fR [\fB-z|-Z\fR]]] [\fB-s\fR \fIshell\fR] [\fB-c
14 [\fB-f\fR \fIinactive\fR] [\fB-e\fR \fIexpire\fR]
15 [\fB-A\fR \fIauthorization\fR [, \fIauthorization\fR]]
16 [\fB-P\fR \fIprofile\fR [, \fIprofile\fR]] [\fB-R\fR \fIrole\fR [, \fIrole\
17 [\fB-K\fR \fIkey=value\fR] \fIlogin\fR
18 .fi
20 .SH DESCRIPTION
21 .sp
22 .LP
23 The \fBusermod\fR utility modifies a user's login definition on the system. It
24 changes the definition of the specified login and makes the appropriate
25 login-related system file and file system changes.
26 .LP
27 The system file entries created with this command have a limit of 512
28 characters per line. Specifying long arguments to several options might exceed
29 this limit.
30 .SH OPTIONS
31 .sp
32 .LP
33 The following options are supported:
34 .sp
35 .ne 2
36 .na
37 \fB\fB-A\fR \fIauthorization\fR\fR
38 .ad
39 .sp .6
40 .RS 4n
41 One or more comma separated authorizations as defined in \fBauth_attr\fR(4).
42 Only a user or role who has \fBgrant\fR rights to the \fBauthorization\fR can
43 assign it to an account. This replaces any existing authorization setting. If
44 no authorization list is specified, the existing setting is removed.
45 .RE
46 .sp
47 .ne 2
48 .na
49 \fB\fB-c\fR \fIcomment\fR\fR
50 .ad
51 .sp .6
52 .RS 4n
53 Specify a comment string. \fIcomment\fR can be any text string. It is generally
54 a short description of the login, and is currently used as the field for the
55 user's full name. This information is stored in the user's \fB/etc/passwd\fR
56 entry.
57 .RE

```

```

59 .sp
60 .ne 2
61 .na
62 \fB\fB-d\fR \fIidir\fR\fR
63 .ad
64 .sp .6
65 .RS 4n
66 Specify the new home directory of the user. It defaults to
67 \fBbase_dir/login\fR, where \fBbase_dir\fR is the base directory for new login
68 home directories, and \fBlogin\fR is the new login.
69 .RE
71 .sp
72 .ne 2
73 .na
74 \fB\fB-e\fR \fIexpire\fR\fR
75 .ad
76 .sp .6
77 .RS 4n
78 Specify the expiration date for a login. After this date, no user will be able
79 to access this login. The expire option argument is a date entered using one of
80 the date formats included in the template file \fB/etc/datemsk\fR. See
81 \fBgetdate\fR(3C).
82 .sp
83 For example, you may enter \fB10/6/90\fR or \fBOctober 6, 1990\fR. A value of
84 \fB` ``\fR defeats the status of the expired date.
85 .RE
87 .sp
88 .ne 2
89 .na
90 \fB\fB-f\fR \fIinactive\fR\fR
91 .ad
92 .sp .6
93 .RS 4n
94 Specify the maximum number of days allowed between uses of a login \fBID\fR
95 before that login \fBID\fR is declared invalid. Normal values are positive
96 integers. A value of \fB0\fR defeats the status.
97 .RE
99 .sp
100 .ne 2
101 .na
102 \fB\fB-g\fR \fIgroup\fR\fR
103 .ad
104 .sp .6
105 .RS 4n
106 Specify an existing group's integer \fBID\fR or character-string name. It
107 redefines the user's primary group membership.
108 .RE
110 .sp
111 .ne 2
112 .na
113 \fB\fB-G\fR \fIgroup\fR\fR
114 .ad
115 .sp .6
116 .RS 4n
117 Specify an existing group's integer "ID" ", " or character string name. It
118 redefines the user's supplementary group membership. Duplicates between
119 \fIgroup\fR with the \fB-g\fR and \fB-G\fR options are ignored. No more than
120 \fBNGROUPS_UMAX\fR groups may be specified as defined in \fBparam.h>\fR&.
121 .RE
123 .sp
124 .ne 2

```

```

125 .na
126 \fB\fB-K\fR \fIkey=value\fR\fR
127 .ad
128 .sp .6
129 .RS 4n
130 Replace existing or add to a user's \fIkey=value\fR pair attributes. Multiple
131 \fB-K\fR options can be used to replace or add multiple \fIkey=value\fR pairs.
132 However, keys must not be repeated. The generic \fB-K\fR option with the
133 appropriate key can be used instead of the specific implied key options
134 (\fB-A\fR, \fB-P\fR, \fB-R\fR, \fB-p\fR). See \fBuser_attr\fR(4) for a list of
135 valid \fIkey\fRs. Values for these keys are usually found in man pages or other
136 sources related to those keys. For example, see \fBproject\fR(4) for guidance
137 on values for the \fBproject\fR key. Use the command \fBppriv\fR(1) with the
138 \fB-v\fR and \fB-l\fR options for a list of values for the keys
139 \fBdefaultpriv\fR and \fBlimitpriv\fR.
140 .sp
141 The keyword \fBtype\fR can be specified with the value \fBrole\fR or the value
142 \fBnormal\fR. When using the value \fBrole\fR, the account changes from a
143 normal user to a role; using the value \fBnormal\fR keeps the account a normal
144 user.
145 .sp
146 As a \fBrole\fR account, no roles (\fB-R\fR or \fIroles=value\fR) can be
147 present.
148 .RE

150 .sp
151 .ne 2
152 .na
153 \fB\fB-l\fR \fInew_logname\fR\fR
154 .ad
155 .sp .6
156 .RS 4n
157 Specify the new login name for the user. See \fBpasswd\fR(4) for the
158 requirements for usernames.
159 .RE

161 .sp
162 .ne 2
163 .na
164 \fB\fB-m\fR\fR [\fB-z|-Z\fR]
165 \fB\fB-m\fR\fR
166 .ad
167 .sp .6
168 .RS 4n
169 Move the user's home directory to the new directory specified with the \fB-d\fR
170 option. If the directory already exists, it must have permissions
171 read/write/execute by \fIgroup\fR, where \fIgroup\fR is the user's primary
172 group.
173 CHANGE_ZFS_FS option in /etc/default/useradd file determines if ZFS filesystem
174 will be created or destroyed during this action. If this option is set to yes
175 and parent directory of user's home directory is ZFS filesystem mount point, a
176 new ZFS filesystem is created. If old user's home directory is a ZFS file system
177 and CHANGE_ZFS_FS is set to yes, the filesystem will be destroyed.
178 \fB-z\fB and \fB-Z\fR options allow overwrite default behavior. If \fB-z\fR
179 option is specified, \fBusermod\fR tries to create new file system and destroy t
180 old one. If \fB-Z\fR option is specified, new filesystem is not created and the
181 one is not destroyed.
182 #endif /* !codereview */
183 .RE

184 .sp
185 .ne 2
186 .na
187 \fB\fB-o\fR\fR
188 .ad
189 .sp .6

```

```

190 .RS 4n
191 This option allows the specified \fBUID\fR to be duplicated (non-unique).
192 .RE

194 .sp
195 .ne 2
196 .na
197 \fB\fB-P\fR \fIprofile\fR\fR
198 .ad
199 .sp .6
200 .RS 4n
201 One or more comma-separated rights profiles defined in \fBprof_attr\fR(4). This
202 replaces any existing profile setting in \fBuser_attr\fR(4). If an empty
203 profile list is specified, the existing setting is removed.
204 .RE

206 .sp
207 .ne 2
208 .na
209 \fB\fB-R\fR \fIrole\fR\fR
210 .ad
211 .sp .6
212 .RS 4n
213 One or more comma-separated roles (see \fBroleadd\fR(1M)). This replaces any
214 existing role setting. If no role list is specified, the existing setting is
215 removed.
216 .RE

218 .sp
219 .ne 2
220 .na
221 \fB\fB-s\fR \fIshell\fR\fR
222 .ad
223 .sp .6
224 .RS 4n
225 Specify the full pathname of the program that is used as the user's shell on
226 login. The value of \fIshell\fR must be a valid executable file.
227 .RE

229 .sp
230 .ne 2
231 .na
232 \fB\fB-u\fR \fIuid\fR\fR
233 .ad
234 .sp .6
235 .RS 4n
236 Specify a new \fBUID\fR for the user. It must be a non-negative decimal integer
237 less than \fBMAXUID\fR as defined in \fB<param.h>\fR. The \fBUID\fR
238 associated with the user's home directory is not modified with this option; a
239 user will not have access to their home directory until the \fBUID\fR is
240 manually reassigned using \fBchown\fR(1).
241 .RE

243 .SH OPERANDS
244 .sp
245 .LP
246 The following operands are supported:
247 .sp
248 .ne 2
249 .na
250 \fB\fBlogin\fR\fR
251 .ad
252 .sp .6
253 .RS 4n
254 An existing login name to be modified.
255 .RE

```



```

256 .SH EXAMPLES
257 .LP
258 \fBExample 1 \fRAssigning Privileges to a User
259 .sp
260 .LP
261 The following command adds the privilege that affects high resolution times to
262 a user's initial, inheritable set of privileges.

264 .sp
265 .in +2
266 .nf
267 # \fBusermod -K defaultpriv=basic,proc_clock_highres jdoe\fR
268 .fi
269 .in -2
270 .sp

272 .sp
273 .LP
274 This command results in the following entry in \fBuser_attr\fR:

276 .sp
277 .in +2
278 .nf
279 jdoe:::::type=normal;defaultpriv=basic,proc_clock_highres
280 .fi
281 .in -2

283 .LP
284 \fBExample 2 \fRRemoving a Privilege from a User's Limit Set
285 .sp
286 .LP
287 The following command removes the privilege that allows the specified user to
288 create hard links to directories and to unlink directories.

290 .sp
291 .in +2
292 .nf
293 # \fBusermod -K limitpriv=all,!sys_linkdir jdoe\fR
294 .fi
295 .in -2
296 .sp

298 .sp
299 .LP
300 This command results in the following entry in \fBuser_attr\fR:

302 .sp
303 .in +2
304 .nf
305 jdoe:::::type=normal;defaultpriv=basic,limitpriv=all,!sys_linkdir
306 .fi
307 .in -2

309 .LP
310 \fBExample 3 \fRRemoving a Privilege from a User's Basic Set
311 .sp
312 .LP
313 The following command removes the privilege that allows the specified user to
314 examine processes outside the user's session.

316 .sp
317 .in +2
318 .nf
319 # \fBusermod -K defaultpriv=basic,!proc_session jdoe\fR
320 .fi

```

```

321 .in -2
322 .sp

324 .sp
325 .LP
326 This command results in the following entry in \fBuser_attr\fR:

328 .sp
329 .in +2
330 .nf
331 jdoe:::::type=normal;defaultpriv=basic,!proc_session;limitpriv=all
332 .fi
333 .in -2

335 .LP
336 \fBExample 4 \fRAssigning a Role to a User
337 .sp
338 .LP
339 The following command assigns a role to a user. The role must have been created
340 prior to this command, either through use of the Solaris Management Console GUI
341 or through \fBroleadd\fR(1M).

343 .sp
344 .in +2
345 .nf
346 # \fBusermod -R mailadm jdoe\fR
347 .fi
348 .in -2
349 .sp

351 .sp
352 .LP
353 This command results in the following entry in \fBuser_attr\fR:

355 .sp
356 .in +2
357 .nf
358 jdoe:::::type=normal;roles=mailadm;defaultpriv=basic;limitpriv=all
359 .fi
360 .in -2

362 .LP
363 \fBExample 5 \fRRemoving All Profiles from a User
364 .sp
365 .LP
366 The following command removes all profiles that were granted to a user
367 directly. The user will still have any rights profiles that are granted by
368 means of the \fBPROFS_GRANTED\fR key in \fBpolicy.conf\fR(4).

370 .sp
371 .in +2
372 .nf
373 # \fBusermod -P "" jdoe\fR
374 .fi
375 .in -2
376 .sp

378 .SH EXIT STATUS
379 .LP
380 In case of an error, \fBusermod\fR prints an error message and exits with one
381 of the following values:
382 .sp
383 .ne 2
384 .na
385 \fB\B2\fR

```

```

386 .ad
387 .sp .6
388 .RS 4n
389 The command syntax was invalid. A usage message for the \fBusermod\fR command
390 is displayed.
391 .RE

393 .sp
394 .ne 2
395 .na
396 \fB\fb3\fR\fR
397 .ad
398 .sp .6
399 .RS 4n
400 An invalid argument was provided to an option.
401 .RE

403 .sp
404 .ne 2
405 .na
406 \fB\fb4\fR\fR
407 .ad
408 .sp .6
409 .RS 4n
410 The \fBuid\fR given with the \fB-u\fR option is already in use.
411 .RE

413 .sp
414 .ne 2
415 .na
416 \fB\fb5\fR\fR
417 .ad
418 .sp .6
419 .RS 4n
420 The password files contain an error. \fBpwconv\fR(1M) can be used to correct
421 possible errors. See \fBpasswd\fR(4).
422 .RE

424 .sp
425 .ne 2
426 .na
427 \fB\fb6\fR\fR
428 .ad
429 .sp .6
430 .RS 4n
431 The login to be modified does not exist, the \fBgroup\fR does not exist, or the
432 login shell does not exist.
433 .RE

435 .sp
436 .ne 2
437 .na
438 \fB\fb8\fR\fR
439 .ad
440 .sp .6
441 .RS 4n
442 The login to be modified is in use.
443 .RE

445 .sp
446 .ne 2
447 .na
448 \fB\fb9\fR\fR
449 .ad
450 .sp .6
451 .RS 4n

```

```

452 The \fInew_logname\fR is already in use.
453 .RE

455 .sp
456 .ne 2
457 .na
458 \fB\fb10\fR\fR
459 .ad
460 .sp .6
461 .RS 4n
462 Cannot update the \fB/etc/group\fR or \fB/etc/user_attr\fR file. Other update
463 requests will be implemented.
464 .RE

466 .sp
467 .ne 2
468 .na
469 \fB\fb11\fR\fR
470 .ad
471 .sp .6
472 .RS 4n
473 Insufficient space to move the home directory (\fB-m\fR option). Other update
474 requests will be implemented.
475 .RE

477 .sp
478 .ne 2
479 .na
480 \fB\fb12\fR\fR
481 .ad
482 .sp .6
483 .RS 4n
484 Unable to complete the move of the home directory to the new home directory.
485 .RE

487 .SH FILES
488 .ne 2
489 .na
490 \fB\fb/etc/default/useradd\fR
491 .ad
492 .sp .6
493 .RS 4n
494 useradd, usermod and userdel configuration file
495 .RE

497 #endif /* ! codereview */
498 .sp
499 .ne 2
500 .na
501 \fB\fb/etc/group\fR
502 .ad
503 .sp .6
504 .RS 4n
505 system file containing group definitions
506 .RE

508 .sp
509 .ne 2
510 .na
511 \fB\fb/etc/datemsk\fR
512 .ad
513 .sp .6
514 .RS 4n
515 system file of date formats
516 .RE

```

```

518 .sp
519 .ne 2
520 .na
521 \fB\fB/etc/passwd\fR\fR
522 .ad
523 .sp .6
524 .RS 4n
525 system password file
526 .RE

528 .sp
529 .ne 2
530 .na
531 \fB\fB/etc/shadow\fR\fR
532 .ad
533 .sp .6
534 .RS 4n
535 system file containing users' encrypted passwords and related information
536 .RE

538 .sp
539 .ne 2
540 .na
541 \fB\fB/etc/user_attr\fR\fR
542 .ad
543 .sp .6
544 .RS 4n
545 system file containing additional user and role attributes
546 .RE

548 .SH ATTRIBUTES
420 .sp
549 .LP
550 See \fBattributes\fR(5) for descriptions of the following attributes:
551 .sp

553 .sp
554 .TS
555 box:
556 c | c
557 l | l .
558 ATTRIBUTE TYPE ATTRIBUTE VALUE
559 -
560 Interface Stability Committed
561 .TE

563 .SH SEE ALSO
436 .sp
564 .LP
565 \fBbchown\fR(1), \fBbpasswd\fR(1), \fBbusers\fR(1B), \fBbgroupadd\fR(1M),
566 \fBbgroupdel\fR(1M), \fBbgroupmod\fR(1M), \fBblogin\fR(1M), \fBbpwconv\fR(1M),
567 \fBbroleadd\fR(1M), \fBbroledel\fR(1M), \fBbrolemod\fR(1M), \fBbuseradd\fR(1M),
568 \fBbuserdel\fR(1M), \fBbgetdate\fR(3C), \fBbauth_attr\fR(4), \fBbpasswd\fR(4),
569 \fBbpolicy.conf\fR(4), \fBbprof_attr\fR(4), \fBbuser_attr\fR(4),
570 \fBbattributes\fR(5)
571 .SH NOTES
445 .sp
572 .LP
573 The \fBusermod\fR utility modifies \fBpasswd\fR definitions only in the local
574 \fB/etc/passwd\fR and \fB/etc/shadow\fR files. If a network nameservice such as
575 \fBnisd\fR or \fBnisd+\fR is being used to supplement the local files with
576 additional entries, \fBusermod\fR cannot change information supplied by the
577 network nameservice. However \fBusermod\fR will verify the uniqueness of user
578 name and user \fBUID\fR against the external nameservice.
579 .sp
580 .LP

```

```

581 The \fBusermod\fR utility uses the \fB/etc/datemsk\fR file, available with
582 SUNWaccr, for date formatting.

```