

Notice

This information specifically relates to place of employment, but may be useful elsewhere.

User and Group Management

Action	Command
List users configured on local host	<code>awk -F: '/\//home/ {printf "%s:%s\n", \$3, \$1}' /etc/passwd sort -n</code>
List groups configured on local host	<code>awk -F: -v id="999" '\$3 > id' /etc/group</code>

For Users, the assumption is that they are non-system users if they have a `/home` directory

For Groups, the assumption is that they are non-system groups if gid is greater the 999

Refer to `/etc/login.defs`

Create User

Create user `useradd -c "Firstname Lastname" -d /home/ firstname.lastname.suffix -u <uid> -g <gid> -m -s /bin/bash firstname.lastname.suffix`

Create user (shorter) `useradd -c "Firstname Lastname" -u <uid> -g <gid> firstname.lastname.suffix`

Set password `passwd firstname.lastname.suffix`

Set account aging policy `chage -M 90 -W 7 -I 30 -d 0 firstname.lastname.suffix`

where -M maximum number of days between password changes, -W number of days warning before password expires, -I inactive days after password expires that account is locked, -d days since password changed (setting to 0 zero forces password change on next logon)

Expire password (force password change) `chage -d 0 firstname.lastname.suffix`

Expire password and set account expiry(for contractors) `chage -d 0 -E YYYY-MM-DD firstname.lastname.suffix`

List account aging information `chage -l firstname.lastname.suffix`

User accounts are in: **firstname.lastname.accounttype**format. These 3 variables are used by the user management scripts. Admin User Account are suffixed with **.nalx**.

Service Accounts are prefixed with **svc**.

uid and **gid** are maintained in a central location to ensure uniformity across server fleet.

Account Management

Disable account (most effective method) `chage -E0 firstname.lastname.suffix`

Re-enable account `chage -E1 firstname.lastname.suffix`

Lock account `usermod -L username`

Check lock status `grep username /etc/shadow`
single exclamation mark before encrypted password means account locked

Lock password `passwd -l username`

Unlock password `passwd -u username`

Check password status `grep username /etc/shadow`
two exclamation marks before encrypted password means password locked



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Account Management (cont)

Check whether password ever set `grep username /etc/shadow`
two exclamation marks with no encrypted password means password has never been set

Extend account expiry (for contractors) `chage -E YYYY-MM-DD firstname.lastname.suffix`

The recommended method of securing an account is disabling by using the `chage` command. Locking of accounts by using `usermod` or passwords by using `passwd` commands are not as effective. For example, an account which uses SSH does not use passwords.

List Logged On Users

Show who is logged on `who`

Show who is logged on and what they are doing `w`

Show list of last logged in users who are "still logged in" `last -F | grep 'still logged in'`

Print name of users currently logged in to local host `users`

Non-standard aliases

Alias	Command
<code>lusers</code>	<code>awk -F: '{ if (\$3 > 999 && \$3 < 60001) print \$1 }' /etc/passwd grep -v suffix sort</code>
<code>ladmins</code>	<code>awk -F: '{ if (\$3 > 999 && \$3 < 60001) print \$1 }' /etc/passwd grep suffix sort</code>

These are functions stored in `/etc/profile.d/aliases.sh`. Again, refer to `/etc/login.defs` for `UID_MIN` and `UID_MAX` and `GID_MIN` and `GID_MAX` values

Get User Information Function

```
# get-useraccounts [Account Type: ALL|normal|admins|service] [Output Format:name|description|almost-all|csv|table] [Additional Info: GROUP|nogroup|complete]
```

Where group information is collected from corresponding user entry in `/etc/group` and where addition information is collated from `chage` command

Argument order is important (does not use `getopt` or `getopts`). Account Type - ALL (is the default option). Output Format: no specific option required. Additional Info - GROUP info (is the default option).

```
# get-useraccounts
# get-useraccounts service csv group
# get-useraccounts admins tablefull complete
```

Based on function `listusers` / `get-useraccounts` (expanded version of the above custom functions `lusers` and `ladmins`). The `get-useraccounts` alias is in PowerShell (verb-noun) format so somewhat familiar for Windows Administrators.

https://github.com/PeterCeeAU/linux_user_management/blob/b473c53e3a9b83dad4246e6d24ae0109fcca7768/listusers

Could be saved as part of a function file or incorporated into the system alias file (`/etc/profile.d/aliases.sh`).



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