

[howto, tmux, updates](#)

# Running Updates In TMUX

I want to make updates to be executed inside a **tmux-session** to make the update process resilient against interrupted ssh-connections.

- update distribution packages on SUSE and Debian
- update git repositories
- update flatpak packages
- update snap packages (it seems like snaps will get updated automatically)

## Sources

- <https://how-to.dev/how-to-create-tmux-session-with-a-script>
- [https://www.golinuxcloud.com/tmux-commands/#Working\\_with\\_tmux\\_commands](https://www.golinuxcloud.com/tmux-commands/#Working_with_tmux_commands)
- <https://superuser.com/questions/863538/tmux-execute-command-in-session-on-startup>
- <https://www.peterdebelak.com/blog/tmux-scripting/>
- [https://www.gnu.org/software/coreutils/manual/html\\_node/install-invocation.html#install-invocation](https://www.gnu.org/software/coreutils/manual/html_node/install-invocation.html#install-invocation)
- <https://stackoverflow.com/questions/35707038/how-to-use-the-install-command-with-a-heredoc>
- <https://linuxhint.com/bash-heredoc-tutorial/>
- <https://www.cyberciti.biz/faq/using-heredoc-redirect-in-bash-shell-script-to-write-to-file/>
- <https://www.cyberciti.biz/faq/find-linux-distribution-name-version-number/>
- [https://wiki.archlinux.org/title/Flatpak#Update\\_a\\_runtime\\_or\\_application](https://wiki.archlinux.org/title/Flatpak#Update_a_runtime_or_application)

## ToDo

- <https://github.com/earwig/git-repo-updater>

## Implementation

```
zypper in lsb-release

install -bD --owner=root --group=root --mode=0750 -T <(cat << 'EOF'
#!/bin/bash
# debug
#set -x

declare _updatecommand
declare _flatpak_updatecommand
declare _gitup_user_updatecommand
declare _osvendor
declare _highlevelpackagemanager
declare _os_updatecommand

_flatpak_updatecommand="flatpak --system update -y"
_gitup_user_updatecommand="sudo -u def python3.8 /home/def/.local/bin/gitup"
if [ ! command -v lsb-release >/dev/null 2>&1 ] && [ ! command -v lsb_release >/dev/null 2>&1 ]
then
    echo >&2 "ERROR: lsb-release required but it's not installed. Aborting."
    exit 1;
fi
_osvendor="$( lsb-release -is )"
case $_osvendor in
    openSUSE)
        _highlevelpackagemanager="$( command -v zypper )"
        _os_updatecommand="${_highlevelpackagemanager} ref && ${_highlevelpackagemanager} dup"
        ;;
    Debian)
        _highlevelpackagemanager="$( command -v apt )"
        _os_updatecommand="${_highlevelpackagemanager} update && ${_highlevelpackagemanager} -y upgrade
&& ${_highlevelpackagemanager} -y full-upgrade"
```

```
;;
*)
    echo >&2 "ERROR: Your operating system (${_osvendor}) is not supported. Aborting."
    exit 1
;;
esac

_updatecommand="${_flatpak_updatecommand} && $_gitup_user_updatecommand && $_os_updatecommand"

tmux new -s sysupdate -d
tmux send-keys -t sysupdate "${_updatecommand}" C-m
tmux attach -t sysupdate
EOF
) /root/scripts/sysupdate/sysupdate

ln -s /root/scripts/sysupdate/sysupdate /root/bin/AAA

# as user
su - <USERNAME>
mkdir -pv ~/repos/extern/
git clone https://github.com/earwig/git-repo-updater.git ~/repos/extern/git-repo-updater
cd ~/repos/extern/git-repo-updater
python ./setup.py install --user
```

add ~/.local/bin to your PATH

```
vim ~/.bashrc
```

```
# PATH
export PATH="${PATH}:-/bin:~/local/bin"
```

```
source ~/.bashrc
gitup --add ~/repos/
```

todo.... sudo -u <USERNAME> /home/<USERNAME>/local/bin/gitup

```
# as root
install -bD --owner=root --group=root --mode=0750 -T <(cat << 'EOF'
[Unit]
Description=Update Flatpak
After=network-online.target
Wants=network-online.target

[Service]
Type=oneshot
ExecStart=/usr/bin/flatpak update --noninteractive --assumeeyes

[Install]
WantedBy=multi-user.target
EOF) /etc/systemd/user/flatpak-update.service

install -bD --owner=root --group=root --mode=0750 -T <(cat << 'EOF'
[Unit]
Description=Update Flatpak

[Timer]
OnBootSec=2m
OnActiveSec=2m
OnUnitInactiveSec=24h
OnUnitActiveSec=24h
AccuracySec=1h
RandomizedDelaySec=10m

[Install]
```

```
WantedBy=timers.target
EOF) /etc/systemd/user/flatpak-update.timer
```

~~DISCUSSION~~

From:  
<https://wiki.nanoscopic.de/> - **nanoscopic wiki**

Permanent link:  
[https://wiki.nanoscopic.de/doku.php/pages/howtos/tmux/runnig\\_updates\\_in\\_tmux?rev=1655658319](https://wiki.nanoscopic.de/doku.php/pages/howtos/tmux/runnig_updates_in_tmux?rev=1655658319)

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