



# LibreOffice Flatpak, Snap and Applmage

- Kukuh Syafaat
- kukuh@syafaat.id
- ▼ Tokyo, 25 May 2019





# Hello (world)

- Kukuh Syafaat
  - ■インドネシア
  - ▼ FOSS Enthusiast
  - Contributor @gnome @openSUSE
  - @LibreOfficeID team



# Agenda

- Intro: Universal Linux Package
- Survey of Flatpak, Snap, and AppImage Usage in Indonesia
- Comparisons



**Intro: Universal Linux Package** 



# **Flatpak**



# **Flatpak**

- ▼ Flatpak is a system for building, distributing, and running sandboxed desktop applications on Linux.
- http://flatpak.org/
- Linux distribution example:
  - Endless OS (https://endlessos.com) only use Flatpak for their apps



# Why Flatpak?

- Access a wide variety of applications
- Get new versions faster
- Safely update your apps without having to reboot
- Install different versions of the same application
- Secure, sandboxed applications



# LibreOffice Flatpak

- https://www.libreoffice.org/download/flatpak/
- LibreOffice Flatpak source code https://github.com/flathub/org.libreoffice.LibreOffice
- Available on Flathub
  - https://flathub.org/apps/details/org.libreoffice.LibreOffice
  - Install with command flatpak install flathub org.libreoffice.LibreOffice or through GNOME Software/KDE Discover



Snap



### **Snap**

- Snaps are app packages for desktop, cloud and IoT that are easy to install, secure, cross-platform and dependency-free.
- https://snapcraft.io/
- Developed by Canonical
- Linux distribution example:
  - By default, Ubuntu use snap beside apt



# Why Snap?

- Auto-updating
- Secure
- Channels, e.g.
  - Stable
  - Candidate
  - Beta
  - Daily/Nightly



# **LibreOffice Snap**

- https://www.libreoffice.org/download/snap
- Available on Snap Store
  - https://snapcraft.io/libreoffice
  - Install with command snap install libreoffice or through Ubuntu Software Center

# **Applmage**



### **Applmage**

- ▼ Format for distributing portable software on Linux without needing superuser permissions to install the application.
- https://appimage.org/
- Linux distribution example:
  - Nitrux (https://nxos.org/) use AppImage on their NX Software Center



# Why Applmage?

- Run on various Linux distributions
- Click and run
- No need root
- Portability



### LibreOffice Applmage

- https://www.libreoffice.org/download/appimage/
- https://libreoffice.soluzioniopen.com/
- Available in (fresh & still)
  - Basic version (only en\_US)
  - Standard version (en\_US, en\_GB, ar, zh\_CN, fr, de, etc...)
  - ▼ Full version (all languages) also
  - Stable Version
  - Daily Version (recent build)
  - Old Version (since 3.3.0)
  - ▼ Pre-Release Version (upcoming release)



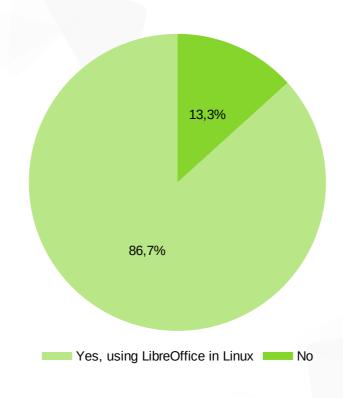
# Survey of Flatpak, Snap, and Applmage Usage In Indonesia

April-May 2019



# **Using LibreOffice in Linux?**

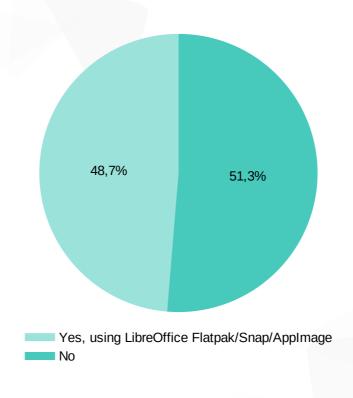
$$n = 45$$





# Using LibreOffice Flatpak/Snap/Applmage?

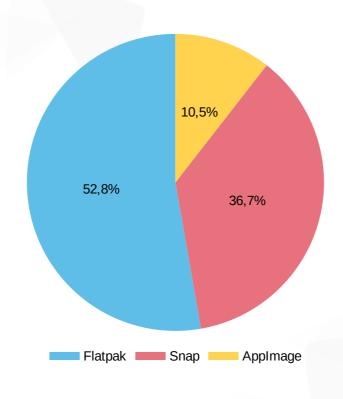
$$n = 39$$





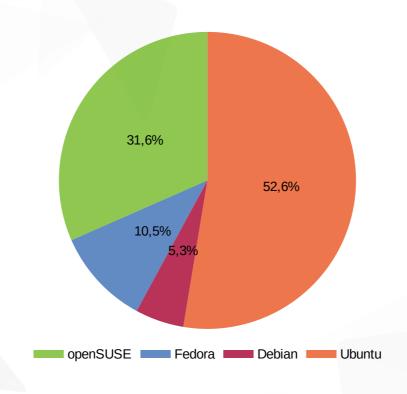
# Using Which? Flatpak/Snap/Applmage?

$$n = 19$$





### **Linux Distributions**



# Comparisons

Tested on openSUSE Tumbleweed, May 2019 LibreOffice 6.2.3.2 on Flatpak, Snap, and Applmage



# **App Size (Installed)**

```
Flatpak

cho2@gnome-next:~> du -hs /var/lib/flatpak/app/org.libreoffice.LibreOffice/

/var/lib/flatpak/app/org.libreoffice.LibreOffice/

Snap

cho2@gnome-next:~> sudo du -hs /snap/libreoffice/

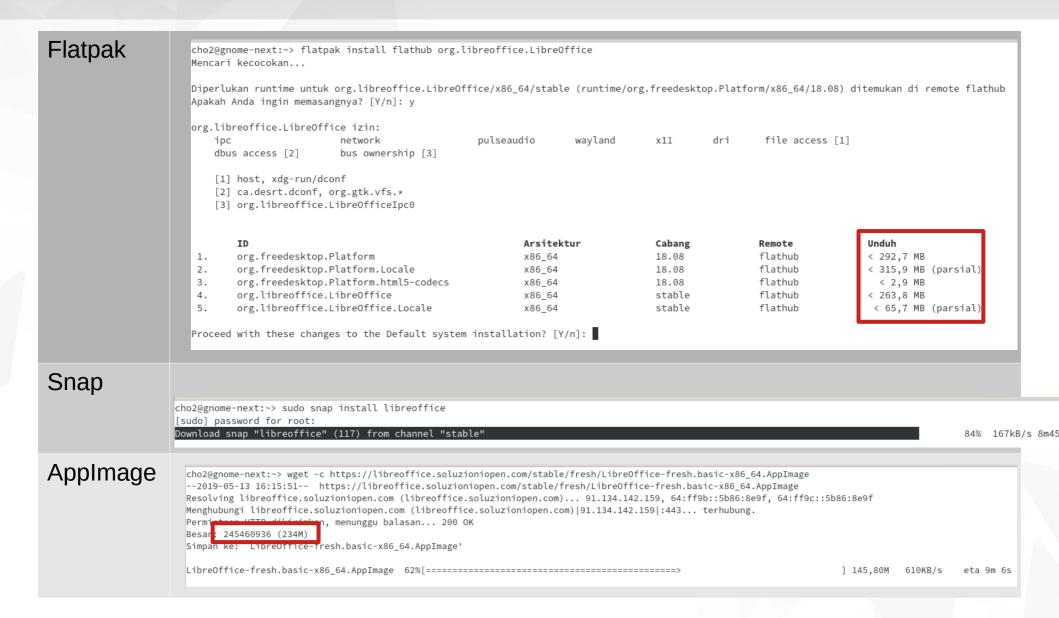
[sude] password for root:
    /snap/libreoffice/

Applmage

cho2@gnome-next:~> ls -lh LibreOffice-fresh.basic-x86_64.AppImage
    -rw-r--r-- 1 cho2 users 235M Apr 19 22:01 LibreOffice-fresh.basic-x86_64.AppImage
```

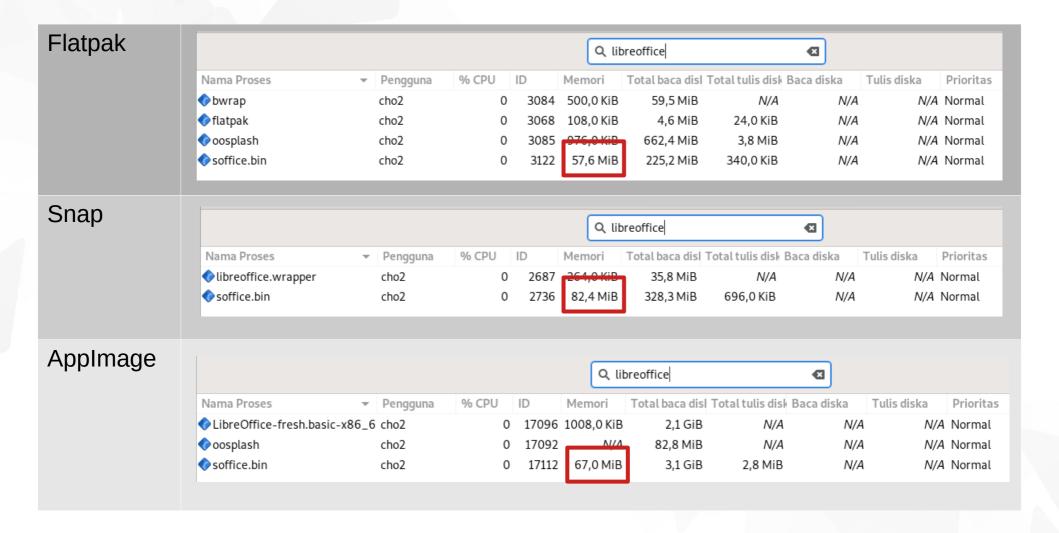


# **App Size (Installation/Download)**





#### **Memory Usage**





#### **Extension**

▼ Tested with ChordDiagrams 1.1.1 https://extensions.libreoffice.org/extensions/chorddiagrams

Flatpak	
Snap	
Applmage	

#### **Fonts**

- ▼ Tested with Google Fonts (Cabin)
- https://fonts.google.com/specimen/Cabin
- sudo zypper in google-cabin-fonts
- Installed on /usr/share/fonts/truetype

Flatpak	
Snap	
Applmage	

#### **Limitations**

- Result may be vary in
  - Other Linux distributions
  - Other LibreOffice Versions
  - Other Extensions



# LibreOffice®

# Thank you ありがとうございました



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