

# Upgrading to LM17

- Why upgrade?
- Which version?
- Prepare installation medium
- Test
- Backup data (including config. files) and applications list
- Install
- Recover backed-up data and applications

# Why Upgrade?

- Installed version no longer supported
  - LM13 supported until April 2017
  - LM16 supported until July 2014
  - LM17 supported until April 2019
  - **All other LM versions no longer supported**
- Maintaining security
- Access to later versions of applications  
e.g. LibreOffice

# Which version?

- 32 or 64-bit?
  - Run `uname -m`
    - [returns `i686` for 32-bit processors and `x86_64` for 64-bit ones]
- MATE or Cinnamon?
  - MATE based on old technology
    - Cinnamon is the future
  - MATE uses less resources than Cinnamon
    - Better for older machines
  - MATE's menu screen more similar to Windows XP

# Prepare installation medium

- Download chosen version of LM17
  - NB all mirrors are not equal!
- Check md5sum
  - LM17 can do this from its file manager
- Burn to medium
  - We'll use UNetbootin and a USB stick
    - Takes about 10 minutes
    - LM17 has a menu entry to make a bootable USB directly from the file manager.

# TEST

- Boot system from LM17 medium
- Check everything works
  - Network
  - Display, including video playback
  - Etc.

# Backup

- Simplest to use mintBackup
- Before backup,
  - Copy configuration files to your home directory
  - Also list any network stuff, user names, passwords etc.
- Backup data (including config. files)
- Backup list of installed applications
- **Backup onto an external device**

# Install

- Basically, follow the instructions
- Default partitioning or a separate /home?
- Make sure that the correct destination for GRUB is displayed

# Restore Data

- Use mintBackup to get permissions sorted?
  - Need root privileges
- Do step by step and only restore necessary stuff
  - Documents, images etc.
  - Of the 'hidden' stuff (names starting with a '.'), usually only .thunderbird and .mozilla (for Firefox) needed
- Before restoring particular applications, check 'Release Notes' in case they have been replaced in the new LM release.



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Propose to work through the steps. Everyone happy – quickly; anyone not happy – we'll sweat the details.

May mean we don't get to the end.

BTW – Clem is changing the way in which Linux Mint is developed. Next release won't be LM18 but LM17.1. This means, I think, that a straightforward 'package' upgrade (the Ubuntu way) will be safe and the procedure we're going through won't be needed until 2019 – if ever.

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MATE is a continuation of Gnome 2 which the GNOME project dropped support for when it launched GNOME 3

Cinnamon was based on GNOME 3 but, although it uses its technologies e.g. GTK, is now independent i.e. it doesn't need GNOME itself to be installed.

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Open a terminal window

Navigate to directory

ls to list files

md5sum <filename>

On webpage copy the MD5Sum

In the Terminal window select 'Search'

Paste copied MD5Sum

Click 'Find'

If the calculated MD5Sum is highlighted there is a match!

For LM17, once on a DVD or USB, can cd to the device and use:

```
md5sum -c MD5SUMS
```

To check the .iso

# TEST

- Boot system from LM17 medium
- Check everything works
  - Network
  - Display, including video playback
  - Etc.

Things people complain of include loss of networking (particularly wireless) or even blank screens due to wrong device drivers. Usually caused by 'rare' hardware.

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When I've used mintBackup I've had trouble with:

- Error messages when making backup
- Access permissions after restoring.

BUT I may not have been using it correctly

# Install

- Basically, follow the instructions
- Default partitioning or a separate /home?
- Make sure that the correct destination for GRUB is displayed

Machine ID must be all lower-case?

# Restore Data

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