Fedora vs Manjaro Linux

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345-Section #001

Distro #1 Fedora Linux – Type

- Community driven

- Red Hat based

- Regular releases

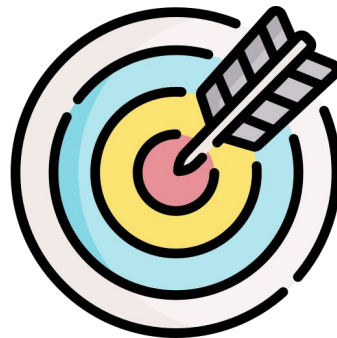- Professionals & enthusiasts, latest technology for developers and system admins

Distro #1 Fedora Linux – History

- 2003 - Fedora Core 1 (Red Hat Linux codebase)
  - Community-driven replacement for RHEL
  - Red Hat sponsored
- 2004 - Fedora Core 2 (LSB)
- 2007 - Fedora Unity project
- 2007 - Fedora 7 (CAD, EDA)
- 2011 - Fedora Design Suite

Distro #1 Fedora Linux – Purpose

- Development tools, web servers, desktop apps

- Free and open-source software

- Stability and security

- RPM package management system (RHEL, CentOS, OpenSUSE)

- Open contributions

Distro #1 Fedora Linux – Install Process

1. https://getfedora.org/en/workstation/download
2. Fedora 37: x86_64 Live ISO -> Download
3. Download ISO
4. Virtual Machine Allocation / Setup
    a. Tools, New, Name: Fedora Linux
    b. ISO -> Other -> Fedora-Workstation-Live-x86_64-37-1.7
    c. Hard Disk space: 30GB
    d. Virtual Hard Disk

Distro #1 Fedora Linux – Use/Observations

- More expertise required for setup
- User-friendly to a limit
- Greater troubleshooting required even after installation
- Powerful tools, easy to break without knowledge

Distro #1 Fedora Linux – Demo

Distro #1 Fedora Linux – Lessons Learned

- Value of community participation
- Advantages of a rolling release strategy
- Significance of security and privacy
- Advantages of a modular strategy
- Importance of experimentation and innovation

Distro #2 Manjaro – Type

- Open Source
- Arch Linux based
- Rolling release distribution
- Clear and understandable UI
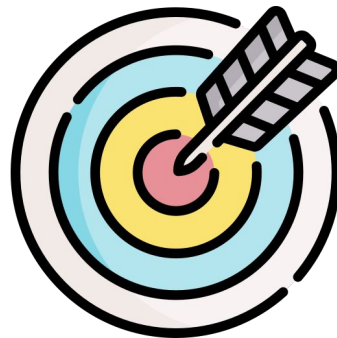
Distro #2 Manjaro – History

- 2011 - Roland Singer project initiation
- July 2012 - Manjaro 0.8.0 (Arch Linux-based)
  - Roland Singer
  - Xfce desktop environment
- 2012-2014 - Manjaro "Ascella"
- May 2021 - Manjaro 21.0 "Ornara"
- Architect (a minimal edition), Xfce, **KDE Plasma**, and GNOME.
- Hardware architectures (x86_64, ARMv7, ARMv8, and aarch64)

Distro #2 Manjaro – Purpose

- Usable by anyone
- Adaptability to unique requirements
- Outdated or low-end systems
- x86-64, ARM, and Raspberry Pi.
- Arch User Repository (AUR)
  - "Pacman"
- System Administration

Distro #2 Manjaro – Install Process

1. https://manjaro.org/download/
2. X86_64 -> Plasma Desktop -> Download -> Image
3. Download ISO
4. Virtual Machine Allocation / Setup
   a. Tools, New, Name: Manjaro Linux
   b. ISO -> Other -> manjaro-kde-22.0.5-230316-linux61
   c. Version: Arch Linux (64-bit)
   d. Hard Disk space: 30GB
   e. Virtual Hard Disk

Distro #2 Manjaro – Use/Observations

- Simple setup
- User friendly applications and desktop environment
- Greater software and package selection
- More accessible to less knowledgeable

Distro #2 Manjaro – Demo

Distro #2 Manjaro – Lessons Learned

- Rolling release model
- Easy-to-use installer
- Access to Arch Linux packages
- Community-driven development
- Customizability

Comparison – Fedora vs Manjaro
(Similarities)

- Linux based
- Community-driven
- Rolling-release
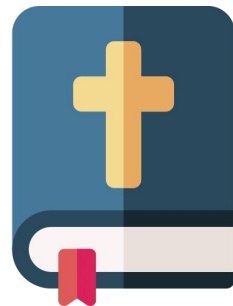- RPM
- Window managers & Desktop

Comparison – Fedora vs Manjaro
(Differences)

- Fedora sponsored, Manjaro not
- Fedora bleeding-edge, Manjaro mix
- Fedora DNF, Manjaro Pacman
- Fedora six months updates, Manjaro ongoing
- Fedora open-source applications, Manjaro proprietary
- Fedora developers / system admins, Manjaro all types
- Fedora devotion to open-source, Manjaro devotion to accessibility

Biblical Worldview

- Open-source collaboration and community effort
  - 1 Peter 4:10-11
- Secure, stable, and reliable systems
  - Proverbs 24:3-4
- Specialization and using the right tools
  - Proverbs 22:29

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Images

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