MUUGLines

The Manitoba UNIX User Group Newsletter

Volume 38 No. 9, May 2026 Editor: Tyhr Trubiak

Next Meeting: May 5th, 2026

In Person and Online

MUUG meets on the first Tuesday of the month.

Main Presentation – XigmaNAS

Ken Wong will do a guided tour on modernizing XigmaNAS for OpenZFS. XigmaNAS is one of the longest-running NAS solutions, which has its roots traced back to FreeNAS. Ken will talk about how it is built, how it operates, highlighting modernization efforts, what “dragons” are encountered along the way, and areas for future work.

We are in for an exclusive and early treat, as BSDCan *(the definitive BSD event in North America)*, has asked Ken to do this presentation at BSDCan later this June in Ottawa. Save money on flight/hotel/tickets and join us!

The latest meeting details are always at: `https://muug.ca/meetings/`

If your MUUG membership has lapsed, please help support us by renewing today! Payment can be made via e-transfer, credit card, or PayPal here: `https://muug.ca/about.php#payment`

Where to Find the Meeting:

Winnipeg Senior Citizens Radio Club
598 St. Mary’s Rd. Winnipeg, MB.

MUUG has moved to a new location for the 2025-2026 season. Winnipeg Senior Citizens Radio Club (WSC) has graciously offered to host MUUG meetings going forward. Several current and past MUUG members are also members of WSC. MUUG President Wyatt Zacharias will be our WSC liaison and duty officer.

WSC is located at 598 St. Mary’s Road, 2nd Floor, a block South from the St. Mary’s / St. Anne’s fork, on the West side beside the Miller’s Meats. It’s in the old fire hall, so you really can’t miss it! Look for the red doors.

The meeting space is on the **2nd floor** and there is no elevator, so attendees will have to be able to climb one flight of beautiful character style stairs. Apologies to anyone requiring accessibility. It is also possible to attend via online videoconferencing: `https://muug.ca/meet`

Please Remove Your Footwear

To keep the carpets clean and dry please remove your outdoor footwear at the top of the stairs.

Please feel free to bring your own comfortable indoor slippers.

Entry Log Book

To support WSC operations, we ask all guests to sign the log book provided by WSC as you enter the meeting space. They have been very generous in providing MUUG space to hold their meetings, and respectfully appreciate the log book signing.

MUUG Book Buyback

MUUG will be running a trial in which we "buy back" prior door prize dead-tree books. If you have one of these books, and are done reading it or are no longer interested in it, and it's in "very good" or better condition, you can bring it to a meeting to "trade in". We will then give you a one year membership (or extension) for free (a $20 value)! We will then turn around and use your book as a future door prize. It's a win-win-win!

Note, your copy of a book does not have to have originally come from MUUG: you could have obtained it from anywhere. All that matters is it is one of the titles listed below.

These conditions apply: 1) The book must be one of the titles listed below. 2) One book per member account. 3) Books must be in very good condition or better, as judged by a MUUG board member, whose decisions are final. 4) Only open to the first ten applicants.

If the program is deemed a success we will look to expand it in the future, with possibly more titles or more books allowed per person.

The idea is to expand our available physical door prize options, increase outreach and interest in the club, increase membership, provide more value/service to our members, and reduce costs. It used to be possible to score good dead tree books for under $20 all-in, but that is becoming increasingly difficult given the recent inflationary environment.

Eligible book titles:

97 Things Every Cloud Engineer Should Know: Collective Wisdom from the Experts, by Emily Freeman

97 Things Every Programmer Should Know: Collective Wisdom from the Experts, by Kevlin Henney

Beautiful Code: Leading Programmers Explain How They Think, by Andy Oram

CSS Refactoring: Architect Your Stylesheets for Success, by Steve Lindstrom

Classic Shell Scripting: Hidden Commands that Unlock the Power of Unix, by Arnold Robbins

Cooking for Geeks: Real Science, Great Cooks, and Good Food, by Jeff Potter

Electronics All-in-One For Dummies, by Doug Lowe

Good Math: A Geek's Guide to the Beauty of Numbers, Logic and Computation, by Mark Chu-Carroll

High Performance Images: Shrink, Load, and Deliver Images for Speed, by Colin Bendell

Make Fun!: Create Your Own Toys, Games, and Amusements, by Bob Knetzger

Managing Projects with GNU Make: The Power of GNU Make for Building Anything, by Robert Mecklenburg

Mastering Regular Expressions: Understand Your Data and Be More Productive, by Jeffrey E. F. Friedl

Masterminds of Programming: Conversations with the Creators of Major Programming Languages, by Federico Biancuzzi

On Web Typography, by Maria Jason Santa

SSH, The Secure Shell: The Definitive Guide, by Daniel J. Barrett

The Geek Atlas: 128 Places Where Science and Technology Come Alive, by John Graham-Cumming

The Hardware Hacker: Adventures in Making and Breaking Hardware, by Andrew Bunnie Huang

Think Bayes: Bayesian Statistics in Python, by Allen Downey

Understanding Compression: Data Compression for Modern Developers, by Colt McAnlis

Understanding Computation: From Simple Machines to Impossible Programs, by Tom Stuart

Unicode Explained: Internationalize Documents, Programs, and Web Sites, by Jukka K. Korpela

Version Control with Git: Powerful tools and techniques for collaborative software development, by Jon Loeliger,

Working with Static Sites: Bringing the Power of Simplicity to Modern Sites, by Raymond Camden

bash Cookbook: Solutions and Examples for bash Users, by Carl Albing

Ubuntu 26.04 LTS Released

What is new? Linux kernel 7.0, Gnome 50 desktop and Wayland-only desktop. That means X11 is gone! This might be one of the more controversial changes, along with replacing the critical low-level tools written in C with tools written in Rust…and their increased push towards Snap.

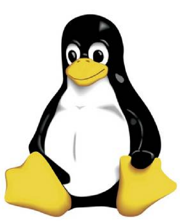
TPM-backed full disk encryption and post-quantum cryptography is enabled by default for security and future-proofing. Native CUDA and ROCm are in the official repos, which means much easier GPU/AI setups and potentially better Nvidia gaming performances.

There is a new video player called “Showtime”. This likely won’t replace VLC as my choice of player, but it is the new GNOME video player – replacing Totem – with a simpler and cleaner UI.

The recommended RAM increases to 6GB

Linux Kernel 7.0 Officially Released

It’s a major version number change, but not necessarily a major release in terms of new features.



Linux kernel 7.0 brings a new build-time configuration option for replacing the default Tux boot logo with any image, promotes Rust support to stable, improves the swapping performance, adds support for Clang static analysis, improves the NTFS3 file system and the NFSD daemon, adds support for the NFS 4.1 protocol by default, and adds more Btrfs and XFS improvements.

For those of you who do not instinctively disable SELinux, Linux 7.0 updates SELinux with support for BPF token access control, adds support for verifying ML-DSA (Module-Lattice-Based Digital Signature Algorithm) post-quantum signatures, and updates NETFILTER_PKT records to show both source and destination addresses.

`https://9to5linux.com/linux-kernel-7-0-officially-released-this-is-whats-new`

Door Prizes

Win a Raspberry Pi!
We will also have our usual selection of e-books and a physical copy of the latest *Linux Pro Magazine,* available to win. There will also be a selection of ACM magazines donated by Dan Keizer. One lucky winner can select an e-book graciously donated by Michael W. Lucas of Tilted Windmill Press (see advertisement on last page). Everyone is encouraged to enter the door prize draw: both in-person and virtual attendees. Members also get the privilege of not having to be present (physically or virtually) for the draw in order to claim their non-physical prize. However, physical prizes can only be selected by in-person attendees. If you attend online you’ll have to select from one of the e-books if you win a door prize.

Checkout `https://muug.ca/prizes` to see the list of e-books up for grabs.

OpenSSL 4.0 Released

OpenSSL 4.0 adds support for newer standards like Encrypted Client Hello (ECH), which improves privacy by hiding more of your browsing metadata, along with post-quantum–related cryptography and updated key exchange methods. This helps protect web browsing, package downloads, and secure connections against both current and emerging threats. There are also improvements to certificate validation and cryptographic checks, making TLS connections more robust and less prone to subtle security issues.

OpenSSL 4.0 removes a lot of legacy and insecure features like SSLv2 and SSLv3, outdated curves, and legacy engine support. This is better for security and maintainability, but know it can break compatibility with older software that hasn’t been updated.

`https://9to5linux.com/openssl-4-0-released-with-support-for-encrypted-client-hello-snmp-kdf-and-more`

Zorin OS 18.1 Boosts Windows App Support by 40%

Zorin OS 18.1 is the first minor update to this Ubuntu 24.0.4.4 LTS based distribution, whose objective is to convert more of those Windows users over to Linux. Zorin OS 1.8 increases their suggested alternatives for Windows apps by more than 40 percent to a total of 240 applications. It also also brings various improvements to the desktop in the form of new options to the Advanced Window Tiling feature.

https://9to5linux.com/zorin-os-18-1-boosts-windows-app-support-by-40-improves-window-tiling

Linux Mint 23 Lasts Longer

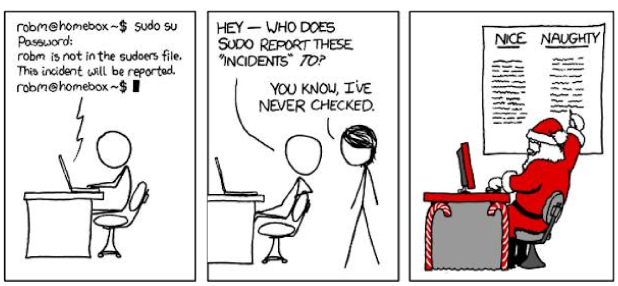
Linux Mint project leader Clement Lefebvre revealed that Linux Mint will adopt a longer development cycle starting with the upcoming Linux Mint 23 release, which is expected in December 2026 and will be based on the Ubuntu 26.04 LTS (Resolute Racoon) operating system series and powered by the Linux 7.x kernel.

https://9to5linux.com/linux-mint-will-adopt-a-longer-development-cycle-starting-with-linux-mint-23

Latest Raspberry Pi Disables Passwordless Sudo by Default

This means that running root commands requires a password. However, you can re-enable passwordless sudo in your Raspberry Pi OS system via the System tab in the Control Centre app or the raspi-config command-line utility.

https://9to5linux.com/latest-raspberry-pi-os-release-disables-passwordless-sudo-by-default



Help us promote this month's meeting, by promoting this poster on your workplace bulletin board or other suitable public message board:

https://muug.ca/meetings/MUUGmeeting.pdf

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https://www.linux-magazine.com/

MUUG would like to thank Michael W. Lucas for donating one of his ebooks every month as a door prize. You can view and purchase his tech books here:

https://www.tiltedwindmillpress.com/product-category/tech/