MUUGLines

The Manitoba UNIX User Group Newsletter

Volume 36 No. 3, November 2023 Editor: Wyatt Zacharias

Next Meeting: November 7th, 2023 7:30pm

In Person and Online

For the remainder of 2023 (and possibly longer), the meeting will be held both physically in person, and online via our Big Blue Button videoconferencing server. We encourage all members to attend in person. If you cannot attend in person, you can watch and interact with the meeting online and partake of our professional-grade camera, microphone, and dedicated stream moderator.

If you show up in person you will be treated to more beverage choices than we've offered in over a decade: coffee, tea, and pop, as well as cookies. And parking is free, copious, safe, and just a handful of feet from the door.

Please stay home if you are sick that day.

To attend via internet, check and refresh the following link after 7:00pm. There is no need to create an account in BBB, nor login. Just enter any name as your screen name and hit **join**.

https://muug.ca/meet

Presentation: *Minimum* dpkg-buildpackage

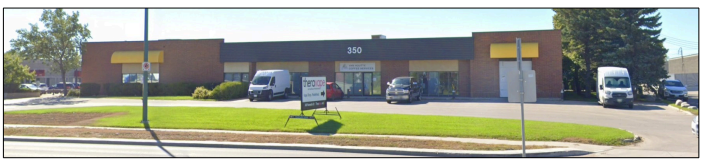
Gilbert Detillieux will present **dpkg-buildpackage**, which is used to build **.deb** packages from source. Gilbert will also give a tour of the source directory structure, and how to use **quilt** to manage patches.

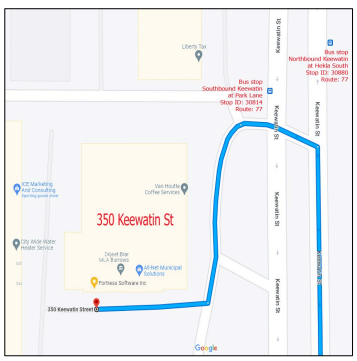
The latest meeting details are always at:
https://muug.ca/meetings/

Where to Find the Meeting

We are continuing to meet on the first Tuesday of every month.

Fortress Software Inc.
350 Keewatin St – Unit #2





Doors will open at 7:00pm. Meeting starts at 7:30pm.

If driving, enter the lot using the most north-eastern entrance (far right in the top picture) and drive around to the south west corner of the building (see route in map detail). You can use any of the free, ample, and safe parking spots that say "reserved" or "MUUG" in front of units #1 through #4 before entering into unit #2. Look for the sign over the door!

Bus stops #30814 and #30880 (route 77) are only 150 meters away. The last bus leaves for Polo Park at 10:15 pm and for Garden City at 10:31 pm. Logan Ave. bus routes #19, #26, and #27 are a 600 meter (8 minute) walk to the south.

2023-2024 MUUG Board Elections

Every November, the group holds its Annual General Meeting. The main goals of the meeting are to elect the new board, and to pass any special resolutions, if required. The Board may consist of up to ten (10) people. Those elected will serve on the MUUG board from November 2023 to November 2024. Any MUUG member in good standing may nominate any member they feel would make a good candidate, including themselves.

The MUUG Board is tasked with coordinating the meetings and other events hosted by the group. The following 8 individuals are up for election, in order alphabetically (last name). The election this year will be by acclamation as there are more positions than nominees. See MUUG By-law 5.(c) and 10.(d).

The following members are currently on the board and are entering their names for re-election.

Alberto Abrao

Alberto Abrao (BBA) started his journey with FOSS in 1997, when he first installed Slackware on his computer. He quickly seized the power bestowed upon him, and embarked on a quest to extract the most out of any tech that ended up in his possession, and helping others get the most out of their tech as well. He also likes to fix things around the house and is always on the lookout for a mint 2000-2004 Ford Focus with a manual transmission to wrench on. He is a newcomer who found in Winnipeg a place to call home, and in MUUG a place to exchange knowledge and experiences.

Chris Audet

IT Technician, at Elias Woodwork

Chris Audet joined MUUG in January 2021, and has been working as technologist and sysadmin in some capacity since 2014. Mostly administering Windows networks but recently a bunch of RedHat. Interests include automating repetitive tasks, learning about new software in the lab, public speaking, and exploring the squishy places where technology and society meet. This had led into trying to learn more about local organizations like MUUG, which has been a ton of fun.

Trevor Cordes

Owner, Tecnopolis Enterprises

Trevor Cordes (B.Sc. CompSci) has owned and operated Tecnopolis Enterprises – a computer VAR, programming and consultancy company – since 1999. Linux and FOSS have been the keystone of Tecnopolis since inception. Since becoming a family man, he has shifted his primary focus to e-commerce development and operation. Trevor was President of the Atari ST User's Group for four years in the '90s. He prefers Fedora, Perl and PHP.

Gilbert Detillieux

Information Technologist, University of Manitoba

Gilbert Detillieux has been working with UNIX as a programmer, system administrator, and trainer since 1980. He worked as a computer consultant specializing in UNIX, from 1983 to 1989, and is currently working as an Information Technologist for the University of Manitoba's Department of Computer Science, where's he's worked since 1989, installing, supporting and upgrading the department's network and UNIX server infrastructure. He was co-founder and past president of the Technical UNIX User Group (now MUUG), and has been an active member of the MUUG board ever since.

Kevin McGregor

Systems Administrator, City of Winnipeg

Kevin McGregor provides server, platform and infrastructure support in the City of Winnipeg's Information Systems Department. After having briefly used UTS on an Amdahl mainframe in university in the mid-80s, he dabbled in Coherent and then converted to Linux and OpenBSD. He has been a member of MUUG since the early 90s, edited the group's newsletter for a number of years, presented various topics at MUUG meetings and has

served on the board for the majority of his membership.

Tyhr Trubiak

Tyhr Trubiak has been a member of MUUG since 2013. He manages Linux and Windows servers. His first exposure to UNIX was when he received his B.Sc. CompSci at the University of Manitoba, which he found similar to his first love - the Commodore Amiga. He was an ASP web developer back in the early days. He has enjoyed 2D node-based digital compositing with Blackmagic Fusion, acting, fitness, downhill skiing and anything Jeep related.

Brad Vokey

Owner, Fortress Software

Brad is the owner of Fortress Software Inc. and the creator of the Matchmaker Fundraiser (aka “Matcho-matics” - a fundraiser that provides compatibility lists for millions of students across Canada and the US). Brad started the company in 1985 using Apple][computers and 6502 machine language. Then switched to 68000 machine language on Atari ST computers in 1986 and then to C on Atari TT030 computers soon after. The original C program and Atari TT030 computers are still very much alive and in use to this day! In 2004, Brad started using Linux on Tecnopolis servers, and joined MUUG in 2006. He previously served on the board of the Atari ST Users Group (STUG) and became a board member of MUUG in 2011. He has been keeping our finances in order as your MUUG treasurer since 2013.

Wyatt Zacharias

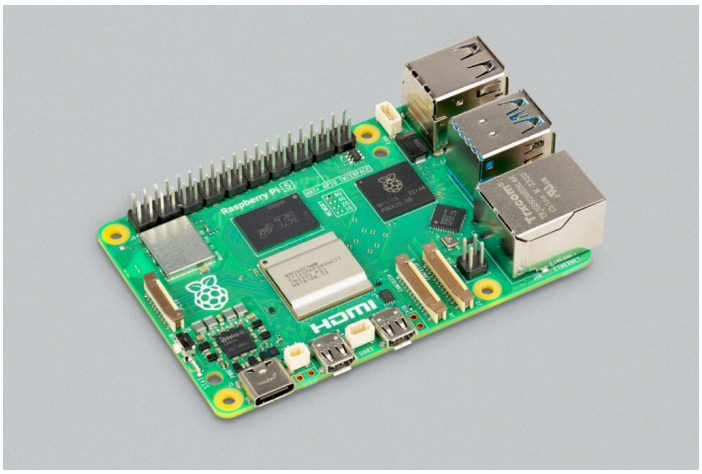
Lead Cloud Developer, Wawanesa Insurance

Wyatt Zacharias has been a member of MUUG since 2011, and president of MUUG since 2014. During the day, he works as Lead Cloud Developer at Wawanesa Insurance, where he manages an assortment of virtual Linux servers in AWS, and various serverless cloud solutions. In previous roles, he has worked with RedHat, SuSE, and HP-UX. Wyatt prefers to run Fedora, as well as Raspbian on the many Raspberry Pi’s he owns. He is a licensed amateur radio operator and enjoys experimenting with open source software for radio communication. Wyatt graduated from Red River College in 2014, and has certifications from AWS and RedHat.

Thank you for supporting the user group! Let’s keep working hard to help our workplaces and communities with friendly, and useful technologies.

Raspberry Pi 5

The Raspberry Pi foundation has announced the next version of its ever popular SBC (Small Board Computer) the Raspberry Pi 5. This new release brings the usual incremental improvements in performance, but also some long asked-for additions that have not been included in prior revisions.



For many the most notable addition to the Raspberry Pi 5 is the new PCI Express 2.0 x1 header on the board. This new connection will allow high speed low latency peripherals to be added, avoiding the latency and jitter of the USB interfaces. Unfortunately the PCIe connection uses an FPC (flexible printed circuit-board) connector, similar to the camera and display connectors, rather than something more standard like an m.2 slot. Adapter boards for connecting m.2 cards will be available however.

Other new additions are a proper real time clock, and a power button to gracefully shutdown and start the pi. A second USB3 controller has been added, providing a dedicated 5Gbps for each USB3 port.

Many of these additions are powered by a new in-house designed chip, the RP1. The new chip is responsible for the MIPI camera and display I/O, USB

2 & 3 ports, gigabit Ethernet, and the 40 pin GPIO header.

The Raspberry Pi 5 is available for pre-order at select distributors, and is expected to ship in October 2023.

https://www.raspberrypi.com/products/raspberry-pi-5/

https://www.raspberrypi.com/news/rp1-the-silicon-controlling-raspberry-pi-5-i-o-designed-here-at-raspberry-pi/

Focusrite Commits to Linux Support

In a recent forum post on linuxmusicians.com it was announced that Focusrite, a manufacturer of professional audio interfaces, had not only contributed to the GoFundMe campaign, but had also contacted the fundraiser organizers to offer their support for future development efforts.

Forum user 'Geoffery' wrote:

> *Focusrite not only offered to send me any devices I didn't have in my collection but also proposed that for any future product releases, they will do their utmost to send me devices in advance. This means that Linux support could be ready right from the product launch!*
>
> *Furthermore, they are discussing how their engineering team could better help me to streamline the development process, and eliminate much of the guesswork.*

Focusrite offers a range of models, popular with hobbyist musicians all the way to small professional studios.

https://linuxmusicians.com/viewtopic.php?p=160833&sid=f139566a9613e9d-f727a8047e37de647#p160833

GNU Turns 40

On September 27th, 1983, Richard Stallman announced his plan to create a Unix compatible operating system with entirely open-source software. It would be released under the name: GNU (Gnu's Not UNIX).

This year marks the 40th anniversary of the project, which has paved the way for the open-source ecosystems we have today.

The event wasn't all celebration, however, as Richard Stallman revealed in his keynote talk that he has been diagnosed with cancer, although he says the condition is manageable and he plans to be around for the years to come.

https://www.gnu.org/gnu40/gnu40.en.html

https://audio-video.gnu.org/video/gnu40/rms-gnu40.webm

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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/

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

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