

# MUUGLines

The Manitoba UNIX User Group Newsletter

Volume 31 No. 2, October 2018

Editor: Tyhr Trubiak

## Next Meeting: October 9, 2018 7:30pm

### Presentation: Reproducible Builds

By Muz

Many of us run some amount of Free and/or Open Source Software, but how can we ever be sure that what we're actually running was built from the allegedly published source code? Whilst not a complete security solution in and of itself, find out how this project helps influence and improve security and development as part of a wider set of policies.

### RTFM: netcat with Wyatt Zacharias

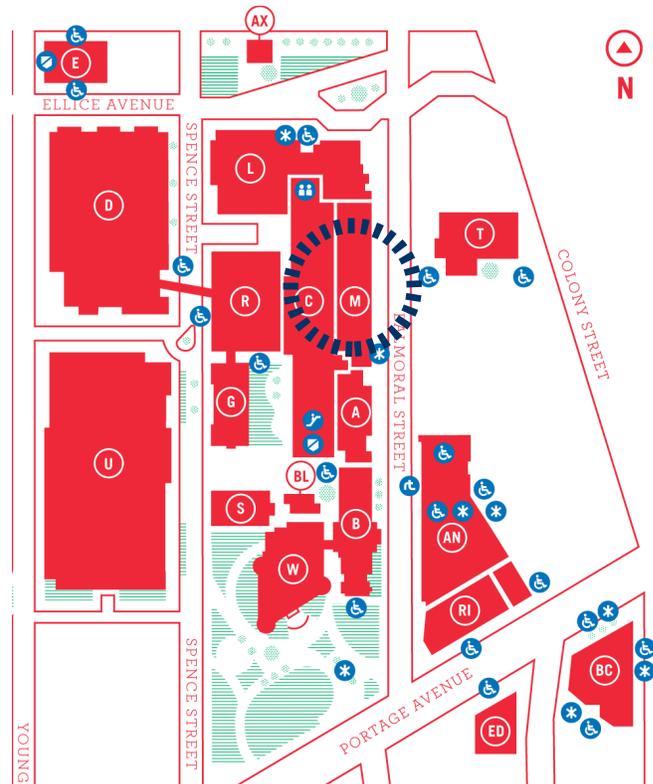
A look into a computer networking utility for reading from and writing to network connections using TCP/IP protocol, designed to be a reliable "back-end" tool that can be used directly or easily driven by other programs and scripts.



### Crontab

- 7:30pm: Meeting begins (*init*)
- 7:40pm – 8:15pm: Announcements/Roundtable – ask your questions, RTFM
- 8:15pm - 8:30pm: Break – eat and socialize
- 8:30pm - 9:45pm: Presentation & questions
- 9:46pm – 9:59pm: (*sigterm*)
- 10:00pm: Room must be empty (*sigkill*)

## Where to Find the Meeting: 1M28 Manitoba Hall, U of W



Meetings are held in the University of Winnipeg's Manitoba Hall (marked "M" on the map), along Balmoral St. We can normally be found in room 1M28, but occasionally get relocated to nearby rooms. If there is a change, it should be conveyed via a couple signs around the halls. Parking is available on the surrounding streets, or the bus terminal parkade.

Please see <http://www.uwinnipeg.ca/maps> for further information about parking and access to the campus.

## MUUG Board Elections

### Call for Nominations

*Adam Thompson, Nomination Committee Chair*

Calling all nominations! This is the preliminary call for nominees to participate in this year's MUUG Board election. Those elected will serve on the MUUG board from November 2018 to November 2019. Any MUUG member in good standing may nominate someone 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. It's fun, and you get a role in deciding what the group will do. All members are encouraged to apply.

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 10 people. The following 8 members are allowing their names to stand for re-election:

#### **Wyatt Zacharias**

MUUG President

Linux/Network Administrator – Manitoba Blue Cross

#### **Trevor Cordes**

MUUG Vice-president

Owner – TecnoPolis Enterprises

#### **Gilbert Detillieux**

MUUG Secretary

Systems Analyst – University of Manitoba

#### **Brad Vokey**

MUUG Treasurer

Owner – Fortress Software

#### **Kevin McGregor**

Systems Specialist – City of Winnipeg

#### **Katherine Scrupa**

LAN Administrator – Steinbach Credit Union

#### **Adam Thompson**

Senior Systems Administrator – Avant Systems Group

#### **Tyhr Trubiak**

Systems Administrator – Atmahr

## Linus Torvalds – taking time off linux kernel development

Linus Torvalds announced on Sunday, Sept 16, 2018, that he was sorry for how he treated the community over the years. Torvalds, 48, said he planned to make some changes to how he conducted himself, and on that part, he said he would be taking some time off from Linux kernel development work.

*Torvalds said, "I am very proud of the Linux code that I invented and the impact it has had on the world. I am not, however, always proud of my inability to communicate well with others -- this is a lifelong struggle for me. To anyone whose feelings I have hurt, I am deeply sorry."*

For those that do not know, Linux Torvalds is credited with inventing Linux in 1991.

**Fedora 29 Beta  
Linux distro:  
now available for  
download with  
improved  
Raspberry Pi  
support**



The latest Fedora Beta comes in variants for different desktop environments, as well as images for ARM-based devices like the Raspberry Pi 2 & 3. The Workstation Beta comes with Gnome 3.30, and updates to many other popular packages.

<https://fedoramagazine.org/announcing-fedora-29-beta/>

## FragmentSmack

### Cisco: Linux kernel FragmentSmack bug now affects 88 of our products

This includes its Nexus switches, Cisco IOS XE software, equipment from their Unified Computing and Unified Communications brand, several TelePresence products and a handful of wireless access points.

The bug can saturate a CPU's capacity when under a low-speed attack using fragmented IPv4 and IPv6 packets, which could cause a denial-of-service condition on the affected device.

Cisco has focused its search for the vulnerability in products that use the Linux kernel version 3.9 or later, which have been confirmed to be vulnerable to FragmentSmack.

Note: Linux-based products aren't exclusively affected. Microsoft also revealed that all supported versions of Windows were vulnerable to FragmentSmack.

## Capacitor and Resistor Shortage

Major manufacturers are spinning down production lines "until it is more profitable to start them up again". Note that this has nothing to do with tariffs. Unfortunately stock is quickly disappearing. Example: Yaego, one of the largest manufacturers of resistors/capacitors cut production in December 2017.

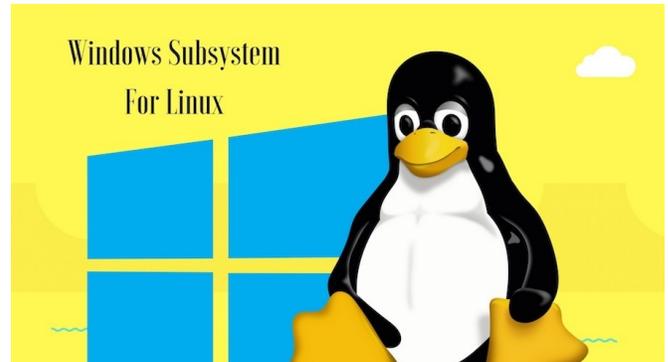
### Yaego's stock of RC0603JR-071ML resistor

August, 2017:	10 million resistors
February, 2018:	6 million resistors
September, 2018:	2 million resistors

While supply levels drop, the price of these resistors is climbing. Yay!



## WLinux: Windows 10 Gets Its Own Exclusive Linux Distro



A group named Whitewater Foundry has launched a new Linux distro named WLinux (Via: Softpedia), which is specially designed for Windows Subsystem for Linux. Unlike other distros for WSL that are merely a clone of standard bare-metal server installation, WLinux comes with features that allow you to reap the benefits of WSL to its full extent.

Developers of the distro have removed packages such as systemd that are not necessary for WSL. This will lead to improved stability and security.

WLinux was earlier named as WinLinux, but a distro with the similar name already existed, so the developers had to change the name.

WLinux is open source under the MIT license, and is available for free on GitHub. Alternatively, you can purchase WLinux from Microsoft Windows Store for \$19.99, and with a limited time offer providing the discount of 50%, it will cost just \$9.99.



## The GPS 2019 Rollover

On **April 6th, 2019**, your GPS receiver might start spitting out the wrong time. It's a Y2K-style problem. Make sure your firmware is updated and will handle this even properly, and/or your NTP software will correctly compensate for the crazy time the GPS receiver will start spitting out.

You should be concerned if:

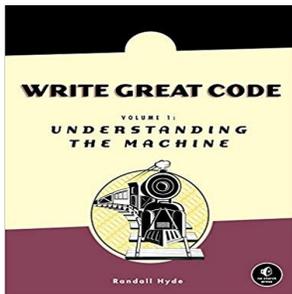
1. your receiver has been fielded for more than 10-15 years without firmware updates,
2. your receiver is a core component of a critical timing systems.

For more information, visit:

<https://spectracom.com/resources/blog/lisa-perdue/2018/gps-2019-week-rollover-what-you-need-know>

## Door Prize Books This Month:

**Write Great Code Volume I: Understanding the Machine** By Randall Hyde - Nov 11, 2004



This, the first of four volumes by author Randall Hyde, teaches important concepts of machine organization in a language-independent fashion, giving programmers what they need to know to write great code

in any language, without the usual overhead of learning assembly language to master this topic.



**Make: Fun! By: Bob Knetzger, 2016**

This book takes you back to old-school hand tools, simple electronics, and working with metal and plastic to make toys.

## MUUG has gone social!



Twitter:

[twitter.com/manitobaunix](https://twitter.com/manitobaunix)



Facebook:

[facebook.com/ManitobaUnix](https://facebook.com/ManitobaUnix)



Meetup

[meetup.com/Manitoba-UNIX-User-Group](https://meetup.com/Manitoba-UNIX-User-Group)



**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>

## Sponsors



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