iXorg

iXorg TestFest Fall 2020, November 17th and 18th

Version 2.0   9 November 2020

iXorg TestFest 2020 will be a virtual technical conference hosted on Zoom.

Presentations will include

- Security Products and Crypto/Ransomware Prevention
- BackupEDGE scheduling, Basic and Advanced 1 and 2
- Building an Ubuntu-based Workstation
- PuTTY Configuration and Use
- TrueNAS Core
- VMware 7.0 Update
- Business Discussions and iXorg Member Presentations

1 Agenda

Tuesday November 17th

13:00 EST – Security products presented by J.R. Guthrie

13:45 EST – Break

14:00 EST – Ransomware Prevention Techniques by J.R. Guthrie

14:30 EST - Business discussions and member presentations

        SSH tunnels

        Sending email from older servers discussion by Dave DiPietro

        Opening firewall port forward remotely demonstration by Michael Brown

Wednesday November 18th

12:00 EST – iXorg Introductions

12:15 EST - *BackupEDGE*: Advanced Features in the Basic Scheduler

12:45 EST - *BackupEDGE*: Advanced Scheduling 1

13:30 EST – Break

13:45 EST - *BackupEDGE*: Advanced Scheduling 2

14:30 EST – Break

14:45 EST – Ubuntu Desktop

15:30 EST – Putty configuration and use with *BackupEDGE* and other curses/ncurses applications

16:00 EST – Break

16:15 EST – Audio Streaming

16:30 EST – TrueNAS Core

17:00 EST – VMware 7.0 update

2 Topics

2.1 Security Products

J.R. Guthrie will give presentations on "Best Of" Security Products and Crypto/Ransomware Prevention Techniques.

Bitdefender GravityZone Business Security including their MSP offerings has the highest rated protection available, bar none, and was rated #1 in protection and performance over the last 6 years.

Emsisoft Antimalware (Bitdefender A/V and Emsisoft A/M; dual engine, dual definition) is the best unmanaged A/V I have ever seen. After 2 years of migrating all of our consumer and small business clients to Emsisoft, we no longer required 2 full time techs to clean computers.

Heimdal Security is providing many features that no other antivirus / antimalware does. Heimdal is not just antivirus, but a true threat prevention. We use Heimdal Thor Foresight as a replacement for Malwarebytes, that will work alongside of any existing antivirus and is inexpensive. We sold Malwarebytes for 20 years, and they have now priced themselves out of the market with a marginal product. Foresight includes DNS protection, Anti-Exploit, Anti-Ransomware, Patch Management, EDR, and Host Intrusion Prevention.

2.2 Ransomware Prevention Techniques

Crypto / Ransomware Prevention Techniques by J.R. Guthrie presents approaches and best practices resulting from his years of research and experience regarding vulnerabilities that antivirus cannot stop. Security professionals that do not bring this to your attention are negligent.

2.3 Business and Member discussion

SSH tunnels, sending email from older servers, opening firewall port forward remotely

2.4 Backup

Tom Podnar from Microlite will present backup topics.

*BackupEDGE***:** Advanced Features in the Basic Scheduler

This seminar will include creation of email, printed and specialized *Notifiers*, when and how to use them, as well as a deeper dive into the second page (Notify/Advanced) setting in the *Basic Schedule*.

BackupEDGE: Advanced Scheduling 1:

This seminar will discuss enabling the *Advanced Scheduler* and using it to create customized *Backup Domains* (subsets of the entire system). Backing up *Domains* multiple times per day will also be demonstrated.

BackupEDGE: Advanced Scheduling 2:

This seminar will explain the use of *Triplet-Scheduling* to create *Schedules* that do different things on defined occasions such as "Last Day of the Year", "15th Day of the Month", etc., all within a single standard *Schedule*. Also discussed will be creating separate *Retention Times* for each line item (*Triplet Entry*) in the *Schedule*. Changer / Library use may be part of this discussion if requested.

2.5 Using Ubuntu Linux as a Workstation Desktop

Bill Bajcz will show Ubuntu 18.04 and applications being used as a workstation. This will include commentary on installation of Ubuntu, some of the additional software used as well as methodology for accommodating WIndows applications (such as Quickbooks and the Solarwinds MSP suite) which do not function entirely well in a Linux world. It wll also include a commentary on a remote-control product which works well for remotely supporting users of Ubuntu workstations.

2.6 Putty terminal emulation

Tom Podnar from Microlite will cover PuTTY topics

PuTTY - SSH and Telnet Client

Configuration and use of **PuTTY** with *BackupEDGE* and other curses and ncurses-based full-screen applications on **Linux**, **OpenServer 6** and **OpenServer 5**. Keyboard settings, terminal emulation best-practices, and character sets will be discussed.

2.7 Audio Streaming

A demonstration of streaming audio at home from a Roon server to RAAT endpoints.

2.8 TrueNAS

New feature coverage of TrueNAS Core and repurposing old HW as a SAN/NAS.

2.9 VMware 7.0 update

Overview of new features in VMware 7.0.

3 Presenters

J.R. Guthrie

J.R. has been working with microcomputers for as long as there have been microcomputers. He has run Advantage Micro Corporation / Distribution, a hardware/systems shop founded by his father in Tucson in 1966, for 35 years. He is an international distributor for several families of anti-malware products, including Bitdefender, Emsisoft, Heimdal, Avast & AVG, and sells through and supports resellers. He supports over 4000 direct clients and 100 resellers worldwide.

D. Thomas Podnar

Tom Podnar will be giving presentations on the advanced configuration of *Microlite BackupEDGE* backup and bare metal disaster recovery software. He'll also provide insight into configuration of the popular **PuTTY** terminal emulation software product for use with *BackupEDGE* and other curses/ncurses-based applications.

Tom founded *Microlite Corporation* in 1983 as a Unix (and back then Xenix) consulting firm, following a career in the Tandy / Radio Shack computer division where he specialized in corporate accounts. His company has been developing and marketing backup software for UNIX since 1986 and for Linux since 1999.

Tom (and *Microlite*) have expert-level experience with Xinuos (formerly SCO) operating systems and a wide variety of Linux distributions. As both developers and consumers of the technologies required to support data protection and other information technologies, they are experienced in networking, firewalls, virtualization, NAS devices, cloud services, optical media, tape drives and libraries, and much more. They also have long experience doing physical to virtual conversion (**P2V**) of Unix operating systems to VMware ESXi.

Bill Bajcz

The exploration of technology began with a ham radio general class license at 14, and several Heathkit ham radio devices financed by a paper route.   This continued with a degree in Chemistry from the University of Michigan, a MS in Chemistry from Eastern Michigan University, and over a decade teaching Chemistry at both the high school and university/graduate school level. During that period in the 1970's, Bill was actively involved with exploring the integration of computing in Chemistry education, founded a

computer club which, financed through fundraising, purchased many computing devices for use by students. These devices included, among other things, a Commodore Pet (Bill had an article in Kilobaud Magazine describing his development of a Centronics interface for the Pet), a Digital Equipment PDP8/i, a PDP8/e, and an S100 prototype computer with multiple Z80 CPUs running TurboDOS, for which one of the 10th grade students wrote a disk operating system.

Bill founded Megatechnologies Inc in 1985 following his completion of a MS degree in Business Information Systems. Early projects included a Point of Sale system running on TurboDOS over ARCNET infrastructure. The business expanded into providing accounting software, operating systems such as XENIX, UNIX and Novell Netware,then phone systems and Windows networks. Currently taking the place of the IT department many small businesses do not have, Megatechnologies is a MSP with expertise in Facetcorp products, Meraki firewalls, Microsoft Windows and Linux.

Michael Brown

Mike has played with electronics starting in the '60s, building a Heathkit SW receiver and oscilloscope. After becoming an Electrical Engineer in the '70s Mike worked for Tektronix in the Microprocessor Design Products division. This was an introduction to UNIX, Version 7 at the time, and programming. In the '80s the work included writing test programs and building fixtures for bed-of-nails testers, and installing industrial and real time computers mainly based on UNIX. Starting in the 90s installation of SCO, Interactive and AIX was the main work, followed by broadening skills in networking, storage and firewalls. Today the hobbies still include building kits and projects along with a keen interest in audio.