iXorg

iXorg TestFest Fall Technical Conference

November 16th through November 20th 2024

Version 1.4   4th September 2024

iXorg TestFest Fall 2024 will be an in person conference held in Orlando.

Topics will include

  Xinuos Company and Product updates

  Proxmox cluster running Ceph

  2.5G and 10G networking and switches, WiFi 7 and tcpdump - Wireshark

  PiKVM remote access, DIY builds and control using TailScale VPN

  Business Discussions and iXorg Member Presentations

iXorg, Inc. will hold its Annual General Meeting

1 Presenters

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.

David Green

2 Topics

2.1 Xinuos Update and Q&A

Xinuos Company Update, support for Kernel Virtual Machine based hypervisors.

2.2 Proxmox cluster running Ceph

A cluster can provide redundancy and along with live virtual machine migration between hosts can provide constant up time even when patching the hypervisor or applying firmware updates. Ceph is a filesystem suite supported on Proxmox with both CLI and GUI tools. The datastore provides block, filesystem and object storage, redundancy, thin provisioning, snapshots and online reconfiguration.

2.3 2.5G and 10G networking

With internet connections and WiFi data speeds available faster than 1 Gb moving up to a 10G speeds provides full bandwidth. The lab will set up one or more switches with 2.5 Gb ports and 10 Gb backbone.

2.4 WiFi 7

The lab will set up both WiFi for in room use and a LAN bridge for wired connections.

2.5 Remote access with Tailscale

Tailscale is a Wireguard based VPN that securely connects devices even to and from dynamic internet services without any special firewall or router configuration.

2.6 AGM

Tuesday afternoon will be iXorg's Annual General Meeting, with the Treasurer's Report, election for positions on the Board of Directors, and all other appropriate business that may come before us.

2.7 Member Presentations

2.8 Business Discussions

3 Agenda

Times are EST.

Saturday November 16th

 8:00 – Conference room available

 8:30 – Initial set up of networking, internet access and WiFi

10:30 – Break

11:00 – Set up Remote Keyboard Video Mouse, tcpdump and Wireshark

12:00 - Lunch

13:00 – Configure Proxmox hosts

15:00 – Break

15:30 – Set up and try Zoom

Sunday November 17th

 8:00 – Room open

 8:30 – Walk through of installing and configuring Proxmox

10:30 – Break

11:00 – Walk through of installing and configuring Ceph

12:00 – Lunch

13:00 – Remote backup using Tailscale

14:00 – Bare metal recovery

15:00 – Break

20:00 – Social Gathering

Monday November 18th

 8:00 – Room open

 8:30 – Zoom setup and check

8:45 – iXorg introductions

9:30 – Build of Pi4 DIY PiKVM

10:30 – Break

11:00 – Test of remote Keyboard Video Mouse through Tailscale

12:00 – Lunch

13:00 – Xinuos update, KVM support for OSR6

14:00 – Group event

19:00 – Dinner out for attendees

Tuesday November 19th

8:00 – Room open

8:30 – Proxmox hands on lab, create, test, migrate VMs

10:30 – Break

11:00 – Proxmox hands on lab, backup and restore

12:00 – Lunch

14:00 – iXorg Inc, Annual General Meeting (AGM)

15:00 – Break

15:30 – Business discussions and member presentations

Wednesday November 20th

8:00 – Room open

8:30 – Network lab, WiFi 7, 10 Gb

10:30 – Break

12:00 – Lunch

13:00 – Open labs

16:00 – Take down starts

18:00 – TestFest 2024 concludes