



iXorg TestFest Fall 2019, November 16th to 20th

Version 1.9 9 November 2019

iXorg TestFest 2019 will host a series of hands on labs covering 10 GB networking, vSphere and vCenter, Linux Desktops, Windows AD, Samba 4, DNS and Email MTA.

Xinuos presentations will cover Definitive 2018 roadmap and Openserver 10 R2.

Presentations and demonstrations will cover UnForm, Synology Storage Appliances, Nakivo Backup, iXsystems and FreeNAS, Linux Desktops, Enterprise SSDs and filesystem snapshots.

iXorg, Inc. will hold its Annual General Meeting

1 Topics

1.1 XinuOS Update

- Definitive 2018 Update (Roadmap)
 - Focus patchck / sysinfo / sysrpt
 - Update Sets (Plans, what's included)

- OpenServer 10 R12 (Strategy Roadmap)
 - Upgrading to R12
 - Recreation of OpenCommander and OpenSetup
 - Focus
 - Installations (interactive, unattended, text-mode, and graphical)
 - backup & recovery
 - certification
 - debugging
 - Introduction of Profiles
 - XinuOS modules
 - Backup and recovery
 - Health and system monitoring
 - Autotuner
 - Remote access
 - ...
 - XinuOS feature plans
 - ZFS
 - Docker - bhyve
 - New drivers
 - Disaster recovery
 - Network installation

1.2 Document handling and printing

The session will cover print management and e-delivery, document management and archiving, document workflow and image management. The morning presentation will be followed by afternoon hands on labs using UnForm.

1.3 Networking

Install a 10 GB switch using copper, fiber and Direct Access Cables. Create separate VLANs for iSCSI, management, VMs and internet access.

1.4 Lab build

Install 6.7 U3 vCenter Server Appliance and join hosts. Configure iSCSI Multipath I/O to a SAN over 10 GB. Build Linux Desktops, Windows AD, DNS servers and email MTA servers.

1.5 VMware patching

Use VMware Appliance Manager to update vCenter to U3a. Configure ESXi baseline of 6.7 U3. Use Update Manager to remediate hosts.

1.6 Email Server

Load a Mail Transfer Agent, configure and test for various operation including directly to the destination or through a cloud service or relay. Packet trace the session and walk through the protocol. Set up authoritative zones on local DNS for test domains, configure SPF and DKIM.

1.7 Storage

Build a ZFS based NAS and SAN server. Share a dataset for backup archive, snapshot the dataset and share it read only. Clone the snapshot and mount it read / write. Enable an iSCSI SAN share, test VMware VAAI features.

1.8 Samba 4

Installation and simple configuration of Samba 4. Use Windows to configure share permissions.

1.9 Linux Desktops

iXorg will acquire two or more workstations to load and configure Linux on to evaluate alternatives to Microsoft Windows.

1.10 Linux Applications

Test Linux alternatives to Windows applications. Run Windows applications in a Linux emulator.

1.11 Member business discussions and presentations

1.12 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 Lab equipment, software and network configuration

2.1 iXorg supplied lab hardware

- iXorg VMware host
- 2 x 24 port gigabit switches, 1 x 48 port gigabit switch
- 1 x 16 port 10 gigabit switch
- Synology DS918+ Appliance to host Email server, Drive, Nakivo and Synology Backup Suite
- FreeNAS Mini E NAS / SAN server
- 2 x workstations to host Linux Desktops
- Laptop to host Linux Desktop
- Industrial fanless PC to host Linux Desktop
- VMware host server

2.2 Attendee supplied hardware

- A PC or notebook

2.3 Software

The following software will be used during the training and will be available for local download.

- Wireshark 3.0.3
- FreeNAS 11.2 U5
- vSphere 6.7 U3

3 Agenda

Saturday November 16th

8:30 - Coffee and juice

9:00 - Set up iXorg server and network

10:00 – Opening remarks by Xinuos

10:15 – Break

10:30 – OpenServer 10 Roadmap – Michael Brinke-Engel

11:30 – Xinuos Data Center – Paul McNary

12:00 - Working Lunch courtesy of Xinuos

13:00 – Openserver Definitive Roadmap – Tim Rice, Dave Stetzel

14:30 – Wrap up and Q&A – Xinuos staff

15:00 - Break

15:30 – Linux desktop planning discussion, load on workstations

Sunday November 17th

8:30 - Coffee and juice

9:00 – iXorg Introductions

9:30 - Set up HW for use as VMware, Linux desktop and Openserver 10 hosts

10:30 – Break

10:45 – Load vCenter U3, update VMware hosts to 6.7 U3 and configure, load Linux Desktops

12:00 – Lunch, New York Deli Buffet

13:00 – iXsystems presentation and update

13:30 - Configure FreeNAS storage server and iSCSI

14:15 – Lab build out, Windows AD, DNS server, Linux desktop, email servers

15:30 - Break

15:45 – Configure DNS zones for email labs

20:00 -22:00 Social meeting

Monday November 18th

8:30 - Coffee and Juice, “Eggs N’ Things” Buffet courtesy of SDSI

9:00 - iXorg Introductions and Roadmap

9:30 – SDSI Document handling and printing presentation

10:30 - Break

10:45 - SDSI presentation continued

12:00 – Lunch, “Down Home” Buffet courtesy of SDSI

13:00 – SDSI wrap up

14:00 – Shared lab time, Hands on UnForm and Email Labs

15:30 - Break

15:45 – Shared lab (continued)

Tuesday November 19th

8:30 - Coffee and juice

9:00 – Nakivo presentation and update

9:45 - mail security, SPF, DKIM and DMARC

10:15 - Break

10:30 – Synology presentation and update

11:30 – Firewall mail filtering

12:00 - Lunch, Main Street Station Buffet

13:15 - Annual General Meeting (AGM)

15:45 - Break

16:00 - Business discussions and member presentations

a) Linux Desktops, Microsoft Office alternatives

b) Using non-RAID Enterprise SSDs

c) Offsite backup costs and benefits, disaster recovery and business continuity

Wednesday November 20th

8:30 - Coffee and juice

9:00 - Using Synology Drive 2.0

9:30 – Offsite backup storage lab

10:30 - Break

10:45 – Lab and review of Linux Desktop and applications

12:00 – Lunch, Main Street Station Buffet

13:00 - Open lab time

15:00 - Take down

17:00 - Conference ends