What do we actually care about?

Charles Edge
Jamf :: krypted.com :: MacAdmins Podcast

A good reason to complain!

Who builds the tools of the future?

Those with the "domain knowledge"

What do we care about?

Whatever my boss says…

Making our deployments better…

The next job…

I fight for the users

Driving the community forward

But what community?

Our identities

The Full Stack Mac Admin

What is a full stack developer?

Does it all

Desktop support

Server support

Writes middleware when needed

Maybe has to troubleshoot printer drivers

Release manager

Infosec

Common in startups

Unique in infrastructure

But dev teams grow…

Historically most admins were Full Stack

Because there weren't enough of us

And it took so long to become an expert

And deployments
weren't big enough

Full stack admins cared about…

Servers

Podcast Producer

Open Directory

Those were always underpowered

Mobile Home Directories

But those always had
sync errors

Making scripts to move portable homes

Controlling the dock

But students always messed with it

Binding to Active Directory

We always had errors

Managed Preferences

Clear that mcx cache

And many an admin
still manages…

Xsan

Kerio

Let's take a look…

2008

- Open
- Podca...
- Active
- Avid
- Apple
- OS X
- Collaboration Services

MacSysAdmin 2008
– Nordic Macintosh System Administrators Meeting 2008 –

| Wednesday, October 1 | Thursday, October 2 | Friday, October 3 |

9.00 - 10.15
Essential System Administrators' tools
All speakers

Why would you chose dseditgroup instead of dscl to edit group information? What tool do I use to set up port translation with NAT? Are graphical tools superior of command line tools? What options give the best output from tcpdump?

Each of our speakers will give a brief presentation and demo of his favorite tools.

10.45 - 12.00
Scripting for System Administrators
Steve Hayman - Apple

Last year Steve gave a highly praised session on AppleScript and Automator. This year he is back to give a session on general scripting options for the system administrator.

12.00 - 13.30
Lunch

13.30 - 14.45
Leopard Server Collaboration Services
Nader Nafissi - Apple

Mac OS X Server provides a wealth of easy-to-set up and easy-to-use collaboration applications and services including iCal Server and Wiki Server. iCal Server makes it easy to share calendars, schedule meetings, and coordinate events within a workgroup, a small business, or a large corporation. Wiki Server provides ready-to-use collaboration tools right out of the box.

Nader is here to tell us how to best utilize and extend those services.

15.00 - 16.15
Managing Clients and Preferences with Mac OS X and Leopard Server
Nader Nafissi - Apple

When deploying Macs in a managed environment, Leopard Server provides tools that let system administrators ensure only approved applications are launched, set important system preferences, and manage system resources on a per-user or per-machine basis. Come see how to use code signing to manage application access, find out how to auto-configure application and user preferences, and learn secrets and tips about managed preference attributes.

- The S
- Mac O
- Spam
- Kerio
- Collab
- Direct
- Deplo

MacSysAdmin 2009

– European Macintosh System Administrators Meeting 2009 –

Wednesday, September 16	Thursday, September 17	Friday, September 18

9.00 - 10.15
launchd - the Swiss Army Knife of Mac OS X
Matthias Fricke - Assense Software Solutions

launchd was introduced in Mac OS X 10.4 as a replacement to the traditional UNIX pid 1, init. Other processes taken over by launchd include cron, xinetd and watchdog.

But launchd doesn't simply take over the functions of these processes, it extends the functionally to each of them and gives a unified way to configure the behavior.

Matthias will walk us through the ins and outs of launchd and explain why launchd is the System Administrator's best friend.

He will give powerful examples on how to extend the servers and clients functionality in a very easy way, using Peter Borg's Lingon as well as more complex examples.

10.45 - 12.00
ZFS - too good to be true?
Kjell Högström - Sun Microsystems

With ZFS Sun took a new approach on how to handle disk based storage.

ZFS was introduced to the Mac as a read only version in Mac OS X server 10.5. In Snow Leopard Server a full implementation of ZFS was said to be one of the main features. In the updated Snow Leopard Server website all references to ZFS has been removed.

But what's so good with ZFS? Does it really mean that you can grow or shrink the storage automatically? And

13.30 - 15.00
Virtulalization

Virtualization has been a hot topic ever since the launch of Intel based Macs. We probably all use some kind desktop virtualization to run Windows or Linux on our Macs. But what about Mac OS X virtualization? And what about mass deployment?. We invited the main players, Parallels and VMware, to present their solutions and discuss future trends within the field

Mass deployment of VMware Fusion
Serge Robe - VMware

Serge Robe, Senior Product Marketing Manager at VMware EMEA, will explain the aspects of Windows deployment on Macs that are unique to the VMware Fusion application.

Virtualization on the Mac for the Mac
Sascha Uhl - Parallels

Parallels provides a total virtualization solution for Mac OSX offering both server and client products.
This session will give you detailed information and best practices on how to leverage Apple hardware in test and production environments, running multiple operating systems.

Sascha Uhl, Head of Sales Engineering at Parallels EMEA, will cover the virtualization of Mac OS X Server on Apple server hardware and will show how a Windows client and server application can be completely integrated into a Mac only hardware infrastructure.

2010

- Cras
- Switc
- Insta
- Activ
- Direc
- Mon

MacSysAdmin 2010
– European Macintosh System Administrators Meeting 2010 –

Wednesday, September 29	Thursday, September 30	Friday, October 1

9.00 - 10.15
Bash your Macs for an Easier Life
Andrina Kelly - Magpies Consulting

Bash scripting, Apple Remote Desktop and Services can all help you get your job as a System Administrator done more quickly, easily and reliably.

We'll look at the benefits of centralizing your script repository - when it works, and when it doesn't, as well as touch on why you should document what you're working on well - even if you're the only Sys Admin in the company.

We'll also look at how to build some simple tools for your end users using the power of bash scripting without the fear factor of a Terminal window opening on their computer by taking advantage of a touch of Automator and the Services menu.

10.45 - 12.00
Advanced Troubleshooting Tools and Techniques
Arek Dreyer - Dreyer Network Consultants

Arek will show you how you can use tools such as fs_usage, Wireshark, and Instruments (dtrace) to identify, isolate, and resolve some complicated problems.

After watching his explanations and demonstrations, you will be able to take the techniques home, practice them, and become a troubleshooting expert.

12.00 - 13.30
Lunch

12.45 - 13.25
Lunch Session:
Parallels Server 4.0 for Mac Bare Metal Edition

13.30 - 15.00
From the Wizard's hat
Charles Edge - 318 and krypted.com

We asked Charles to talk about some techniques and tools covered in his books and used in the field. This builds a vendor neutral look at the tools leveraged throughout the other sessions. These are some of of the topics he will cover:

- Scripting Open Directory Backups
- Auto Server Setup for Bare Metal Restore and Change Control
- Converting monolithic images to packages
- Integrating ARD and RDC with Help Desk Software and imaging
- Moving computers to and from DeployStudio
- Scripting changes to Active Directory and Open Directory from dscl
- Regression testing images, directory services and automations

Throughout this session, the tools that are discussed, where possible, will be provided to the audience to be taken to back to their environments and used

15.15 - 16.30
Round Table Discussion
All speakers and the audience

We leave the mike open to a very experienced and vivid panel to a free debate on everything Mac related.

OS X

- Jamf
- Lion S
- Pupp
- Deplo
- Xsan
- MCX
- IPv6

MacSysAdmin 2011
– European Macintosh System Administrators Meeting 2011 –

| Wednesday, October 5 | Thursday, October 6 | Friday, October 7 |

9.00
Registration

10.00
Intro

10.30 - 12.00
OS State of the Union
Speaker to be announced at the conference

During the keynote session we will give you an update on the status of the newest and hottest Apple technologies. Being a Mac system administrator conference the focus will be on Lion and Lion Server but we will also cover iOS5 and iCloud.

12.00 - 13.30
Lunch

12.45 - 13.25
Lunch Session:
The Apple Platform Really is Revolutionary!
Blaine Mattson - JAMF Software

As Mac OS X and iOS evolve and the Apple platform undergoes significant changes, the importance of the platform grows each year. Through the years, many have underestimated the reach and significance of the platform, and now is the time to help push it to new prominence.

Increasingly, more organizations make significant investments to migrate from other operating systems and build new capabilities to take advantage of the

13.30 - 14.45
Don't be a Sys Admin
Edward Marczak - Google

The role of all Sys Admins have changed. Despite its challenging and wide-ranging origins, many System Administrators have become complacent - particularly in the Mac realm.

This session talks about steps you can take to bring more value to you and your company, including general best practices, scripting, system foundations and working with the IT community.

15.00 - 16.15
OS X Lion Server
Speaker to be announced at the conference

The OS X Server, and how you manage it, has changed quite a lot in it's Lion incarnation.

During this session we'll take a deeper look at changed and new features.

16.45 - 18.00
Deploying iOS
Charles Edge - 318 and krypted.com

iPod Touch, iPhone and iPad are bridging the gap between non-Mac IT professionals charged with managing these devices and the traditional Mac SysAdmins. In most enterprises, these devices now represent greater populations than Mac OS X based computers. But while they are similar to Mac OS X, in a lot of ways administrators have to forget everything we

Servers

- Wireless
- Mountain
- Munki
- Jamf
- Reposad
- Directory
- iOS Depl
- Backups
- BYOD
- Certs

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MacSysAdmin 2012

– European Macintosh System Administrators Meeting 2012 –

| Tuesday, September 11 | Wednesday, September 12 | Thursday, September 13 | Friday, September 14 |

9.00 - 9.50
Server AD Migration & integration
Zack Smith - 318
This session will explore migrations from one directory server such as Open Directory to Active Directory and the implications to file servers, user passwords, mail services and other Mac OS X services. We will review using web portals and other tips on reducing the impact on users and decrease downtime. We will cover scripting LDAP operations to determine which users will easily migrate to Active Directory and which have incompatible attributes such as multiple values for single value attributes on the target directory.

10.10 - 11.00
Workstation AD Migration & integration
Zack Smith - 318
This session will cover migrating workstations from directory service such as local accounts, or Open Directory to Active Directory accounts. We will cover the implications of changing users UniqueID's and how to migrate their ownership and permissions, keychains, and changing usernames. We will review how to automate this process to allow remote users to deploy automation tools that have failure protection built in.

11.10 - 12.00
Virtualization on the Mac with Vmware vShere
Alan Gordon - Humac Group

14.00 - 14.50
Hosting Services for Lion and iOS on Windows Servers
Charles Edge - 318 and krypted.com
This is not an anti-OS X Server session. Far from it. Lion Server can do a stand up job hosting WebDAV, AFP, NetBoot, Directory Services, Web, Wikis, VPNs, DHCP, DNS, groupware, instant messaging and many more services (often times on one firecracker of a Mini server). But we can host services on Windows or Linux as well, and in some cases we should. And when it's done properly, the end users never need to know what platform allows the centralized command and control that we all desire.

This session is about demystifying Windows Servers so that systems administrators have a maximum level of choice. We'll setup some services and discuss some of the things that a Windows server does well vs. some of the things it doesn't. We'll build out a server for hosting WebDAV content for iOS, setup Active Directory, build a VPN server and more. And we'll do it all in less than an hour.

15.10 - 16.00
Directory Services Is Dead.
Long Live Directory Services!
Arek Dreyer - Dreyer Network Consultants
iOS and Mountain Lion are moving us away from

2013

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FRIDAY, SEPTEMBER 20

Tuesday 17 | Wednesday 18 | Thursday 19

9.00 - 9.55
Planning for iOS7 and OS X Mavericks
Arek Dreyer - Dreyer Network Consultants

Apple wants to provide surprise and delight to its customers. At http://www.apple.com/ios/ios7/education/, http://www.apple.com/ios/ios7/business/, and http://images.apple.com/osx/preview/docs/OSX_Mavericks_Core_Technology_Overview.pdf, Apple has publicly announced information about the new operating systems, including features aimed at people like you who manage many devices.

These features will help you offer a great out of box experience. You have to think about how to embrace the new features, yet still support legacy devices; how will your workflows change to support both?

Arek will help you parse the announcements and think through these issues in a way that doesn't break any Non-Disclosure Agreements.

10.10 - 11.05
Demystifying Technical Writing
Charles Edge, 318 and krypted.com

12.15 - 13.00
Lunch

13.00 - 13.55
Quotes
Speaker to be announced at the conference

Single quotes. Double quotes. Back quotes. Backslashes. What do they do? What's the difference? How do you use them? How do they interact? How can they help you? How can they really mess up your

2014

- Macs
- Worst
- Secur
- Comm
- The M
- Macs
- NetBo
- Apple
- SCCM
- launcl
- APIs

2015

- NeXT
- Overv
- Packa
- Buildi
- JAMF
- Munki
- Final (
- Disast
- Ansib
- Mana
- App (

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WEDNESDAY, SEPTEMBER 30

Tuesday 29 | Thursday 1 | Friday 2

9.00 - 9.55
Challenges in Building a Corporate Mac Client
Timo Lemburg, Autostadt GmbH

Best practices, advices and the best tools won't help you much if corporate regulations don't allow you to make use of them.

This session gives some insight into the challenges of building a Mac client in the Windows-centric Infrastructure at Autostadt and Volkswagen. Among other things you will learn why DEP, despite being a nice thing, cannot be used and why Adobe software is at times not available for users..

12.15 -13.15
Lunch

13.15 - 14.10
It hurts when I do this
Kevin White, Macjutsu, Inc.

Between MDM, DEP, VPP, and all the other new Apple management technologies, there are many ways to hurt yourself. Learn from my mistakes, here are all the things you need to avoid in your Apple deployments.

14.25 - 15.20
The 7 Habits of Highly Effective SysAdmins
Andrina Kelly - JAMFSoftware

Have you had that moment in the midst of frequent interruptions, phone calls, and burning urgent issues where you stop to wonder how some of our peers manage to produce such in-depth and useful tools to contribute to the community? Over time, I've seen all sorts of tactics to being a Systems Administrator, lets pick apart what it is that really separates the pack, and

2016

- iOS
- Imag
- The
- Pack
- Virtu
- Desi
- Bind
- Cras
- Swift

FRIDAY, OCTOBER 7

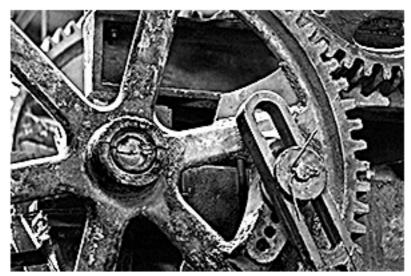Tuesday 4 | Wednesday 5 | Thursday 6

9.00 - 9.55
Tools and Process for Streamlining Mac Deployment
Tim Sutton, Concordia University

Apple's popularity and their approach to selling hardware is revolutionizing how IT gets that hardware into the hands of its users. Every year's new Macs and OS X bring new changes, which doesn't leave much time for the repetitive setup tasks that are involved in getting machines ready for users (or our testing!). It's easy to fall behind on OS support, but we have no choice but to support the latest.

The Mac sysadmin community is blessed with so many great open-source tools at its disposal for deploying and managing Macs. We'll look at approaches and tools for automating these to bring speed, consistency and sanity to our deployment processes. By being more systematic, we can be more agile, and reclaim time to work on more important problems.

This session will focus on OS X hardware and tools, but

12.15 - 13.00
Lunch

13.00 - 13.55
Swift Playgrounds Inside and Out
Mr π

WWDC 16 brought new OS releases, hundreds of new APIs - and a new app, Swift Playgrounds for iOS. We'll devote one slide to everything else that was

2017

- Mac@...
- Secur...
- Bash...
- Tips a...
- Secur...
- Secur...
- More...
- Code...
- BSM...
- Noma...

Rhapsody	Mac Server 1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	10.1	10.11	10.12	10.13
1997	1999	2002	2003	2005	2007	2009	2011	2012	2013	2014	2015	2016	2017
10	9	13	15	19	24	24	22	18	21	21	21	21	14
AppleShare	AFP	AFP	AFP	AFP	AFP	AFP	AFP	AFP	AFP	AFP	AFP	AFP	
NFS	NFS	NFS	NFS	NFS	NFS	NFS	NFS	NFS	NFS	NFS	NFS	NFS	
Web	Web	Web	Web	Web	Web	Web	Web	Websites	Websites	Websites	Websites	Websites	Websites
NetInfo	NetInfo	Directory Server	Open Directory	Open Directory	Open Directory	Open Directory	Open Directory	Open Directory	Open Directory	Open Directory	Open Directory	Open Directory	Open Directo
NetBoot	NetBoot	NetBoot	NetBoot	NetBoot	NetBoot	NetBoot	NetBoot	NetInstall	NetInstall	NetInstall	NetInstall	NetInstall	NetInstall
FTP	FTP	FTP	FTP	FTP	FTP	FTP	FTP	FTP	FTP	FTP	FTP	FTP	
		Windows	Windows	Windows	SMB	SMB	SMB	SMB	SMB	SMB	SMB	SMB	
		Mail	Mail	Mail	Mail	Mail	Mail	Mail	Mail	Mail	Mail	Mail	Mail
		DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS	DNS
		DHCP	DHCP	DHCP	DHCP	DHCP	DHCP		DHCP	DHCP	DHCP	DHCP	DHCP
			VPN	VPN	VPN	VPN	VPN	VPN	VPN	VPN	VPN	VPN	VPN
				Software Updates	Software Updates	Software Updates	Software Updates	Software Updates	Software Updates	Software Updates	Software Updates	Software Updates	Software Up
				iChat	iChat	iChat	iChat	Messages	Messages	Messages	Messages	Messages	Messages
					iCal	iCal	iCal	Calendar	Calendar	Calendar	Calendar	Calendar	Calendar
					Wiki	Wiki	Wiki	Wiki	Wiki	Wiki	Wiki	Wiki	Wiki
						Address Book	Address Book	Contacts	Contacts	Contacts	Contacts	Contacts	Contacts
							Time Machine	Time Machine	Time Machine	Time Machine	Time Machine	Time Machine	
							Profile Manager	Profile Manager	Profile Manager	Profile Manager	Profile Manager	Profile Manager	Profile Mana
								Xsan	Xsan	Xsan	Xsan	Xsan	Xsan
									Caching	Caching	Caching	Caching	
									Xcode	Xcode	Xcode	Xcode	
Macintosh Manage	Macintosh Manager												
Web Objects	Web Objects			Web Objects	Web Objects								
			Application Server	Application Server	Tomcat	Tomcat							
Print		Print	Print	Print	Print	Print							
QTSS	QTSS	QTSS	QTSS	QTSS	QTSS	QTSS							
		NAT	NAT	NAT	NAT	NAT	NAT						
				Xgrid	Xgrid	Xgrid	Xgrid						
					RADIUS	RADIUS	RADIUS						
					Podcast	Podcast	Podcast						
						Mobile Access							
					MySQL								

Trends

Trends

- Backup

- Directory services

- Scripting

- Packaging

- More and more security

- Imaging

- Less Server

- More device management

- More third parties

- Always a state of the union!

The trends are consistent

But what do we care about now?

Having arguments about whether imaging is dead

Not macOS Server

Management platforms

Scripting all the things

Captain obvious says: MDM

Not macOS Server

Caching

Packaging

Not macOS Server

Providing an amazing user experience

Getting away from Active Directory

Whatever infosec wants

Keeping our systems secure

Is this managing the state of systems?

ITSM

Automating the request for software

Viewing device details while creating a service ticket

Locking a device from a service desk portal

Deployments are growing

The end of the full stack admin?

Where will we gravitate to next?

Platform Engineers

QA

Release Managers

Managing teams?

Infosec

Ensuring the security of our deployments

Server management

Middleware

Viewing device details while creating a service ticket

Connect our patch management systems to…

Service Desk systems

Log aggregation and analysis

Other patch management systems

HR systems

Identity management

Line of business apps

Self-healing systems

And way, way more

What does all of this mean?

Increased specializations mean…

Crossing platforms?

A fork in the road…

Is the Mac a mobile device?

Is the Mac a desktop OS?

If it's a mobile device…

The impact to scripting

Like with SKEL

Reverse engineering

Disable SIP to use dtrace

Jailbreaking

Will all services need to be signed soon?

Writing apps

And back to managing the state of devices.

How does SIP impact state?

What is the state of an iOS device?

Even the smallest security incident…

Less and less access…

More deployments mean the platform needs to be easier

10 years ago…

"iOS and the Mac are coming together"

So what should we care about?

Disabling SIP?

Nah

Disabling SKEL?

Nah

If you don't script it, how do you…

Freeze software updates

Deploy settings?

Deploy App Store apps?

Deploy non-App Store apps?

Deploy settings to apps?

Deliver a system in a known state?

The concept of a filesystem

How do apps share data?

We now have multiple users for iPads (kinda')

But…

OS 9…

Who builds the tools of the future?

The full stack admins of the past

And…

Master iOS management