





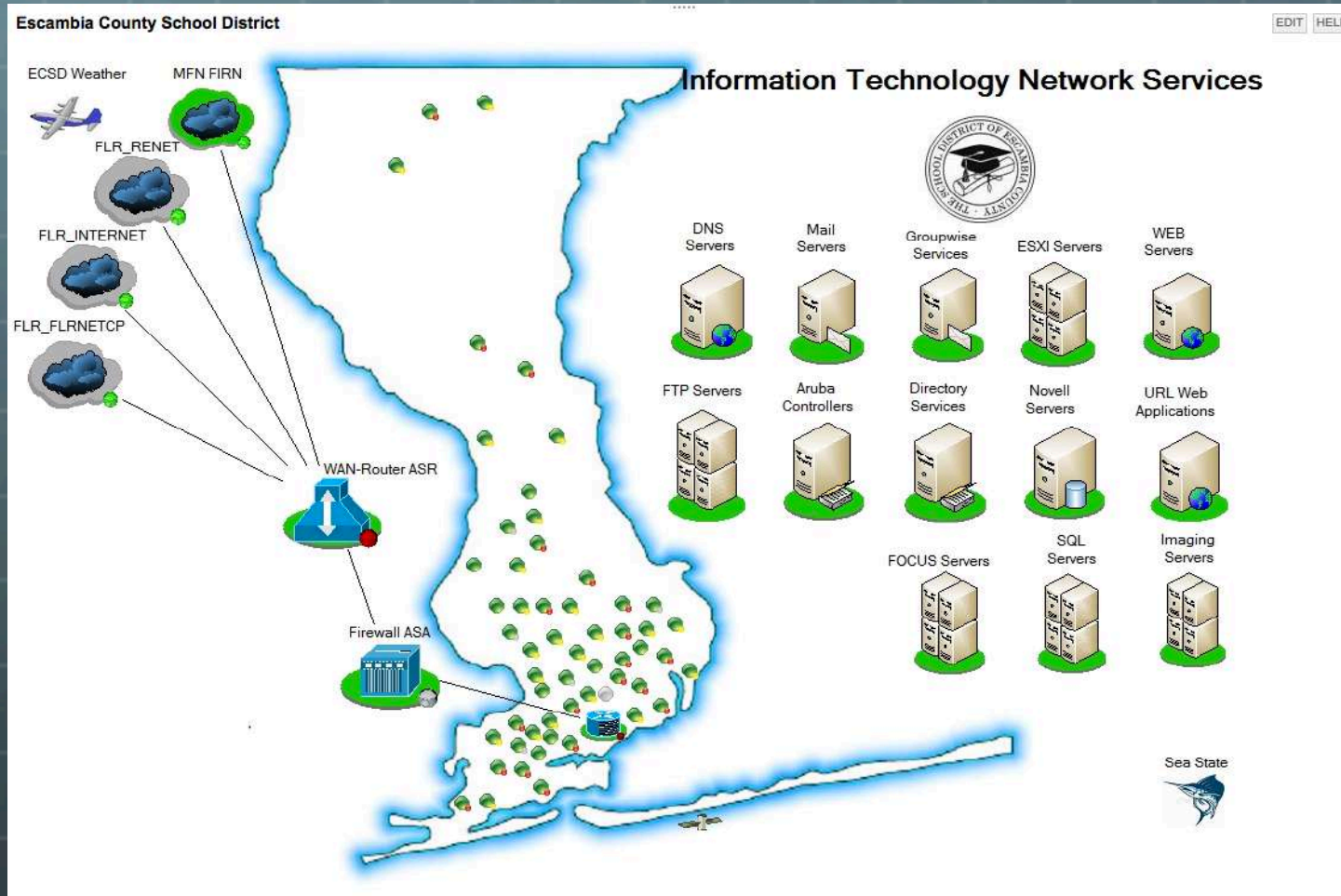
Mac Operations Brief

Target Audience: Micro Focus
03/31/16 D. Rech

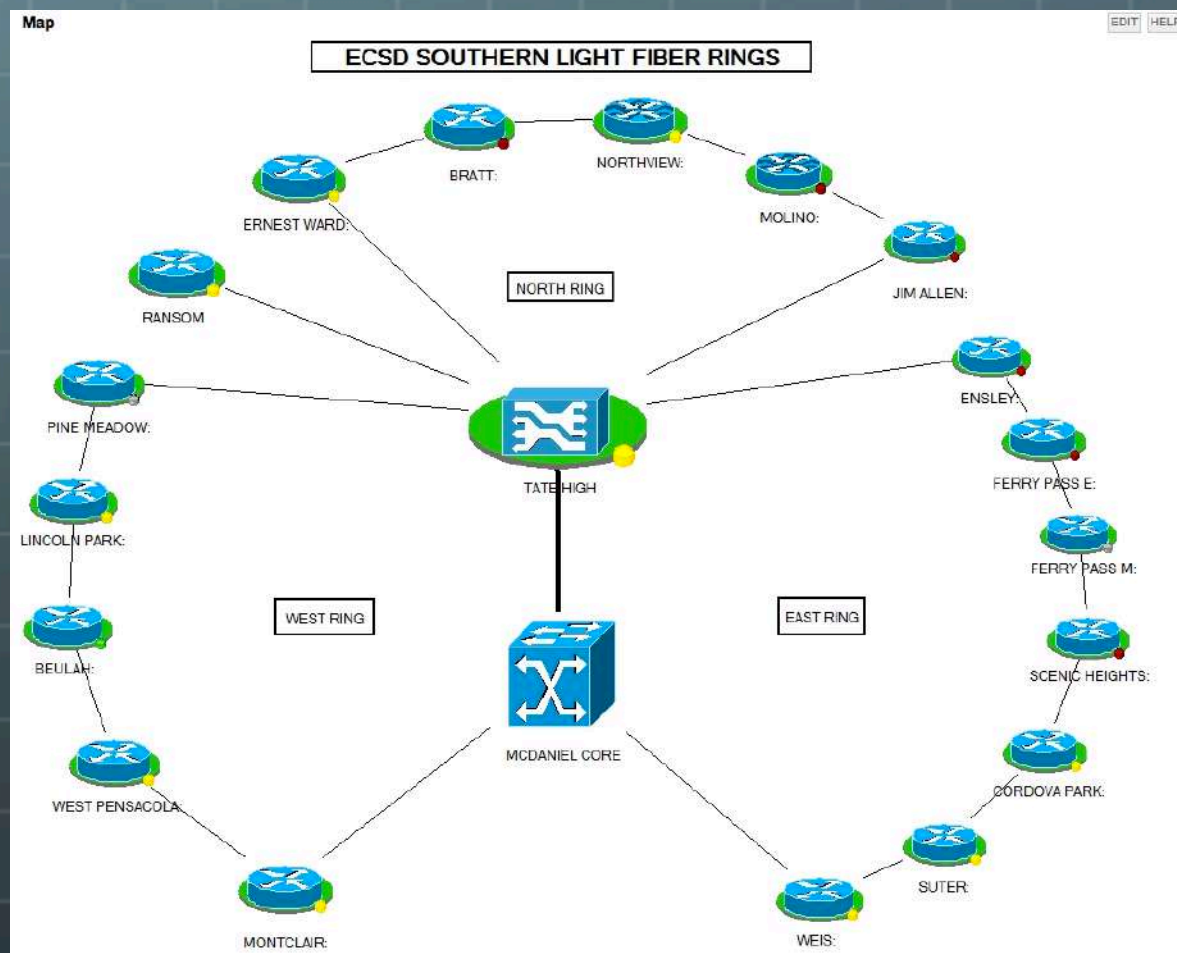
Content

-  Enterprise Imaging of Mac's
-  Mobile Device Management
-  Kanaka Deployment
-  ZenWorks for Mac

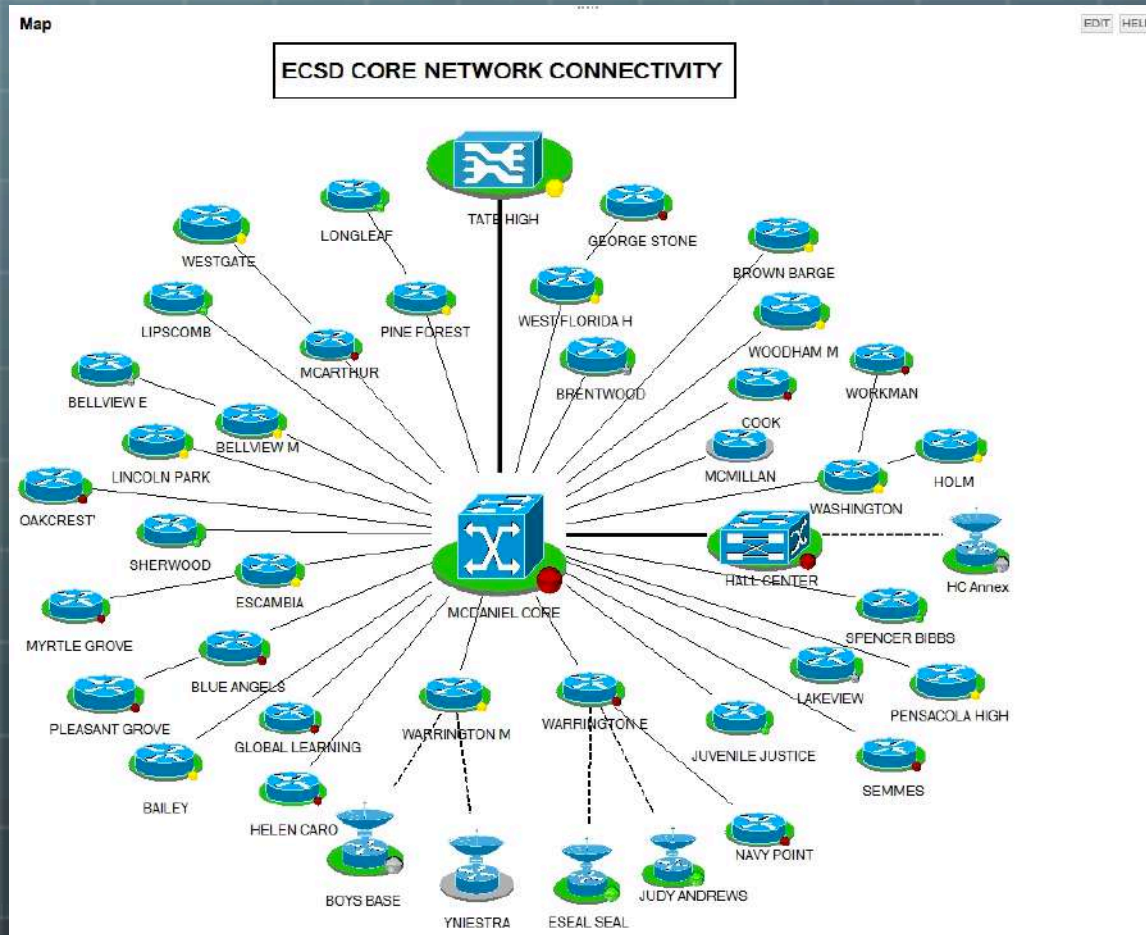
ECSD Enterprise Imaging for Mac Aprox 8000 Mac's and 4000 iPads



Linux Image Distribution Servers on Fiber Rings



Linux Image Distribution Servers on Fiber Core

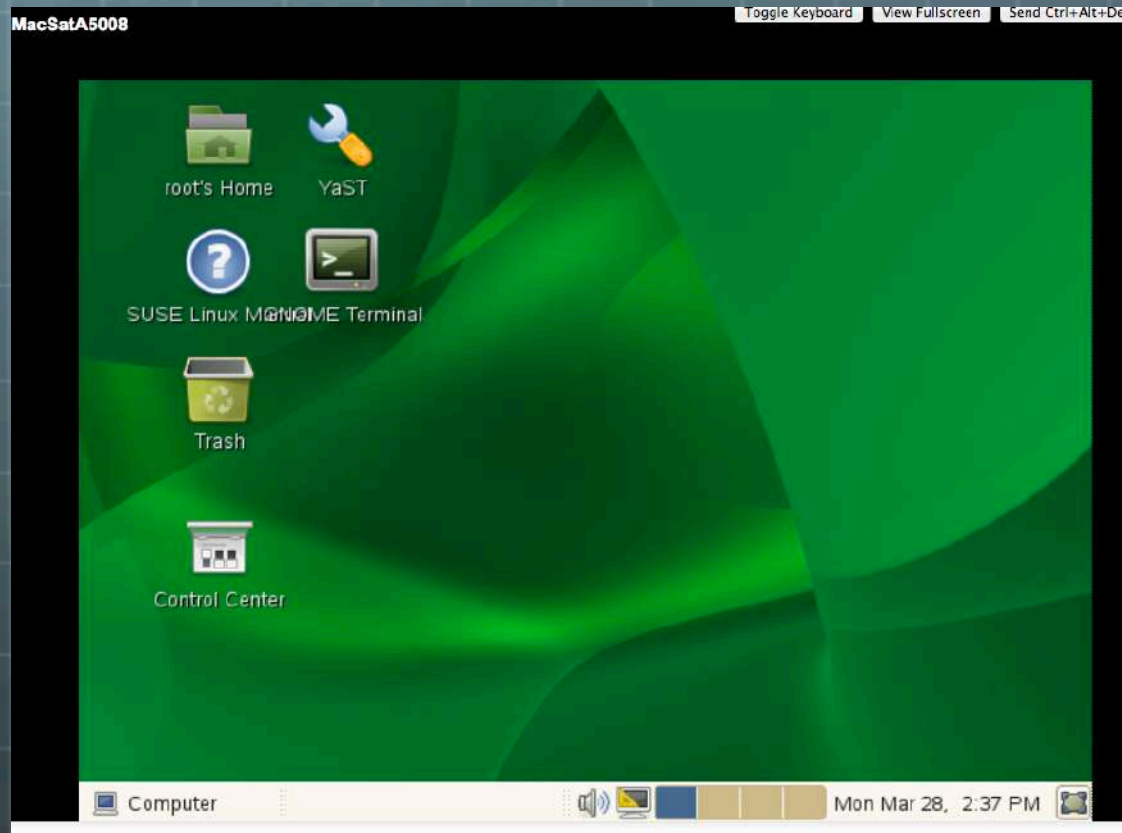


Distribution Server List

SMB

Servers							
Add Server							
Distribution Points		Software Update Servers		NetBoot Servers			
Master	Name	Server Address	SSH	HTTP			
ⓘ *	CHOOSE YOUR ASSIGNED SERVER ----->	afp://10.77.10.52/CasperShare	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatA5003-HQ1	smb://10.62.11.193/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatA5008-HQ2	smb://10.62.11.194/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatE0231-East3	smb://10.49.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatE0581-West2	smb://10.31.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatE0941-West1	smb://10.43.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatH0521-North3	smb://10.7.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatH1231-North2	smb://10.15.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatM0061-South2	smb://10.63.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatM0301-East2	smb://10.24.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatM0541-North1	smb://10.40.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatM0561-West4	smb://10.12.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatM0601-East1	smb://10.59.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatM0671-South1	smb://10.16.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatM0852-South3	smb://10.22.11.180/swd	Yes	Yes	Edit Server	Delete Server	
ⓘ	MacSatM1221-West3	smb://10.66.11.180/swd	Yes	Yes	Edit Server	Delete Server	

Just Linux, no OES



SMB Share



CompiledConfigurations



Packages



Scripts

SMB and SSH Config

Edit Distribution Point: MacSatA5003-HQ1

General File Sharing HTTP

Connection Type: smb

Share Name: swd

Workgroup or Domain (SMB only): MACSATA5003

Port: 548

Read-Only Username: imageuser

Read-Only Password:

Verify Read-Only Password:

Read/Write Username: imageadmin

Read/Write Password:

Verify Read/Write Password:

Cancel Save

Edit Distribution Point: MacSatA5003-HQ1

General File Sharing HTTP

Display Name: MacSatA5003-HQ1

DNS Name or IP Address: 10.62.11.193

Use this server as the Master:

Failover Distribution Point: None

Enable Automatic Load Balancing with Failover Distribution Point:

Local Path: /var/opt/mac/swd/

SSH Username: root

SSH Password:

Verify SSH Password:

Cancel Save

JAMF JSS to Manage Apps

The screenshot displays the JAMF JSS interface with a repository of software packages. The interface is divided into several sections:

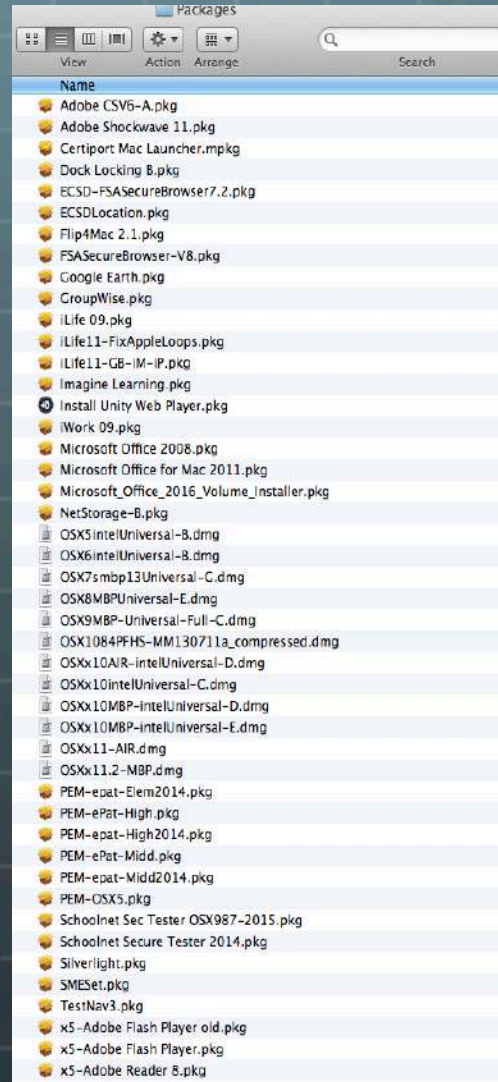
- REPOSITORY:** Contains sections for CONFIGURATIONS and DISTRIBUTION POINTS.
- View Type:** A dropdown menu currently set to 'All'.
- Stages:** A list of stages including Deployable, All Stages, Non-Deployable, Testing, and Deleted.
- Table:** A table listing software packages with columns for Name, Type, and Category.
- Summary:** A summary box at the bottom right showing repository statistics.

Name	Type	Category
Adobe CS6-A.pkg	Apple Package	Unknown
Ceriprot Mac Launcher.mpkg	Apple MetaPackage	Unknown
Dock Locking 8.pkg	Apple Package	Unknown
ECSD-FSAsecurebrowser7.2.pkg	Apple Package	Unknown
ECSDLocation.pkg	Apple Package	Unique
FSAsecureBrowser-V8.pkg	Apple Package	Unknown
Life11-FixAppleLoops.pkg	Apple Package	Unique
Life11-CB-IM-IP.pkg	Apple Package	Unique
Imagine Learning.pkg	Apple Package	Unknown
Install Unity Web Player.pkg	Apple Package	Unknown
Microsoft_Office_2016_Volume_Installer.pkg	Apple Package	Unknown
NetStorage-8.pkg	Apple Package	Unknown
OSX1084PHIS-MM130711a_compressed.dmg	DMG Package	Unknown
OSX5intellUniversal-8.dmg	DMG Package	Operating Systems
OSX6intellUniversal-8.dmg	DMG Package	Operating Systems
OSX7rribo13Universal-C.dmg	DMG Package	Operating Systems
OSX8MBPUniversal-E.dmg	DMG Package	Operating Systems
OSX9MBP-Universal-Full-C.dmg	DMG Package	Operating Systems
OSX10AIR-intelUniversal-C.dmg	DMG Package	Operating Systems
OSX10AIR-intelUniversal-D.dmg	DMG Package	Unknown
OSX10MBP-intelUniversal-D.dmg	DMG Package	Unknown
OSX10MBP-intelUniversal-E.dmg	DMG Package	Unknown
OSX11-AIR.dmg	DMG Package	Unknown
OSX11MBP-intelUniversal-A.dmg	DMG Package	Unknown
PEM-ePat-Elem.pkg	Apple Package	TestNav
PEM-ePat-Elem2014.pkg	Apple Package	TestNav
PEM-ePat-High.pkg	Apple Package	TestNav
PEM-ePat-High2014.pkg	Apple Package	TestNav
PEM-ePat-Mid.pkg	Apple Package	TestNav
PEM-ePat-Mid2014.pkg	Apple Package	TestNav
Schoolnet-secTest-OSX987-2014.pkg	Apple Package	Unknown
Schoolnet-secure Tester 2015.pkg	Apple Package	Unknown
Silverlight.pkg	Apple Package	Unknown
SMSeset.pkg	Apple Package	Unique
TestNav3.pkg	Apple Package	TestNav
TestNavProxyCacheConfig.sh	Shell Script	TestNav
x5-Adobe Flash Player old.pkg	Apple Package	OSXS
x5-Adobe Flash Player.pkg	Apple Package	OSXS
x5-Adobe Reader 8.pkg	Apple Package	OSXS
x5-Adobe Reader 9.pkg	Apple Package	OSXS
x5-Adobe Shockwave 10 old.pkg	Apple Package	OSXS
x5-Adobe Shockwave 10.pkg	Apple Package	OSXS
x5-Audacity.pkg	Apple Package	OSXS
x5-Dock Locking.pkg	Apple Package	OSXS
x5-ECSD Diagnostics.pkg	Apple Package	OSXS
x5-Firefox.pkg	Apple Package	OSXS
x5-Flip4Mac 2.1.pkg	Apple Package	OSXS
x5-Google Earth.pkg	Apple Package	OSXS
x5-GroupWise.pkg	Apple Package	OSXS
x5-iLife 08.pkg	Apple Package	OSXS

Summary:

- Configurations: 23
- Packages: 106
- Scripts: 1
- Printers: 0
- Dock Items: 0
- Directory Bindings: 0

Packages Folder on the LINUX Distro Server



Netboot with Ubuntu and Lean Mac Images

```
Ubuntu 14.04 LTS MacNetBootUB2 tty1
```

```
MacNetBootUB2 login:
```

Configure all subnet routers to pass netboot requests

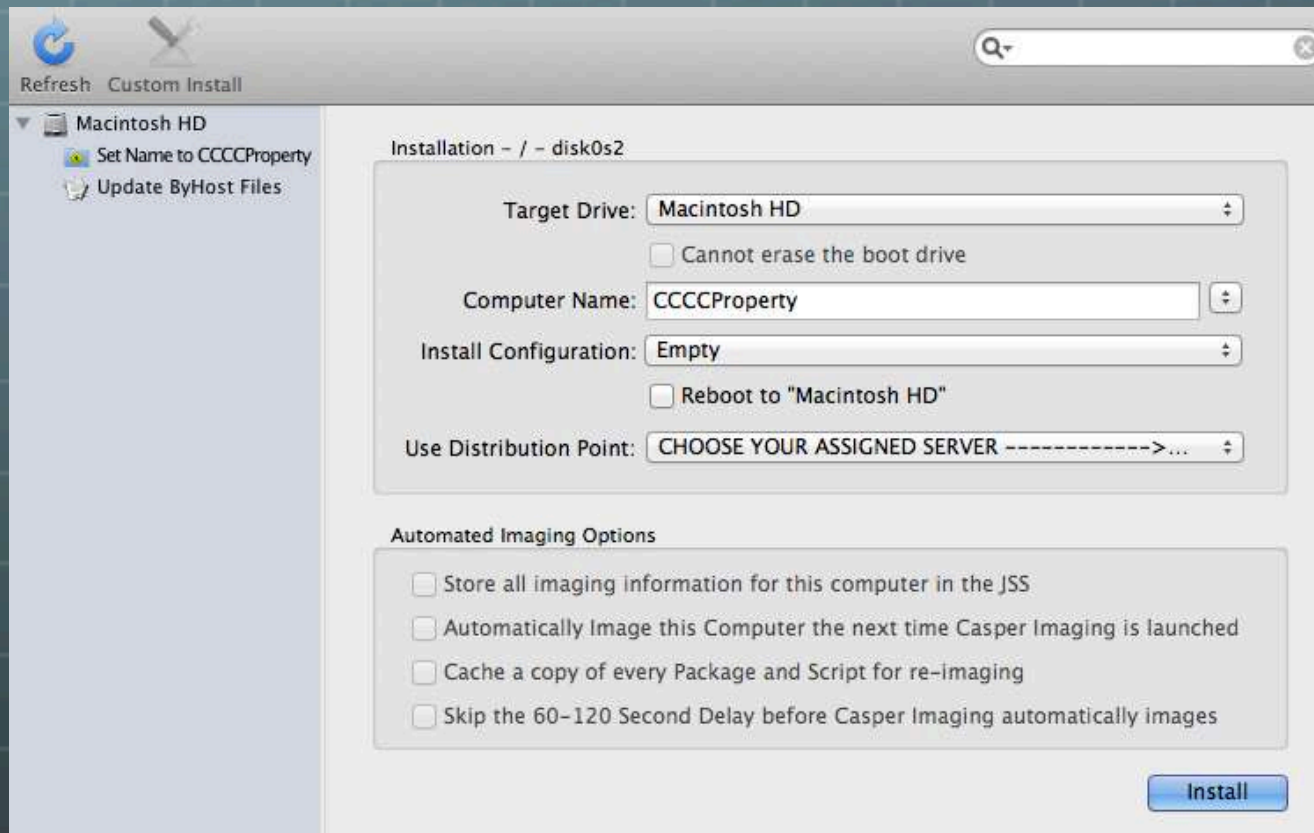
```
ip helper-address 10.62.11.195
```

```
ip helper-address 10.62.11.196
```

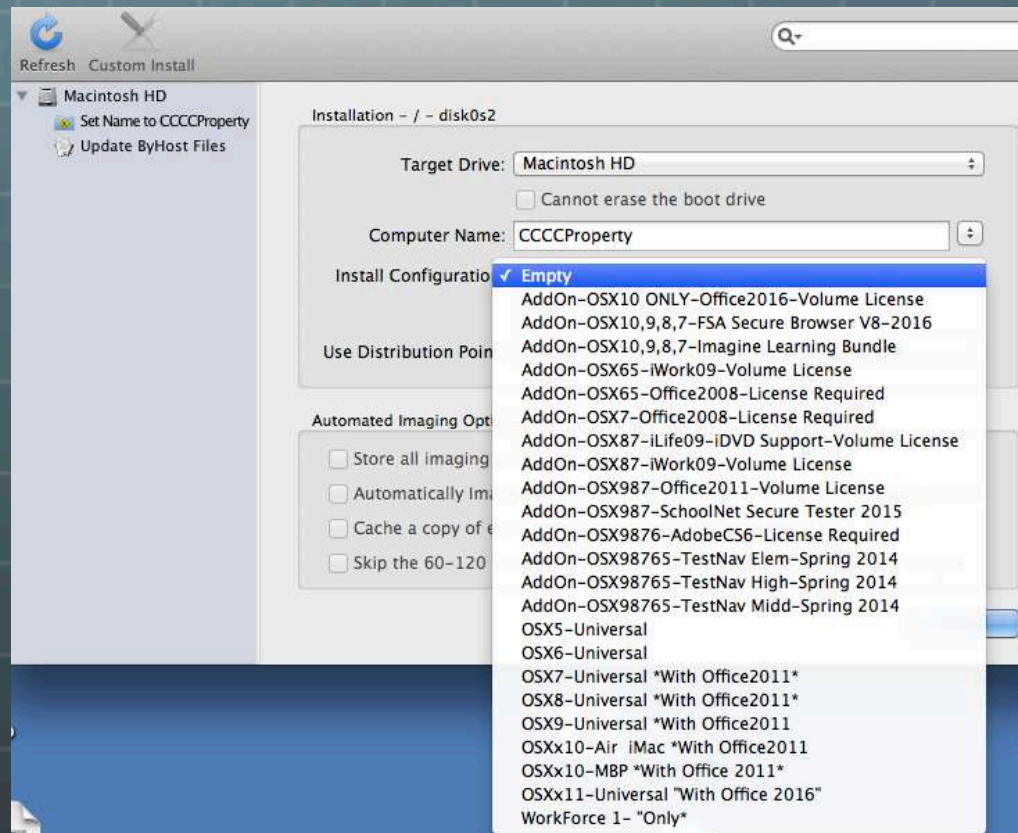
“N” Key on Mac to netboot

(Depending on router model some DHCP relay or helper relay commands are different to cross subnets)

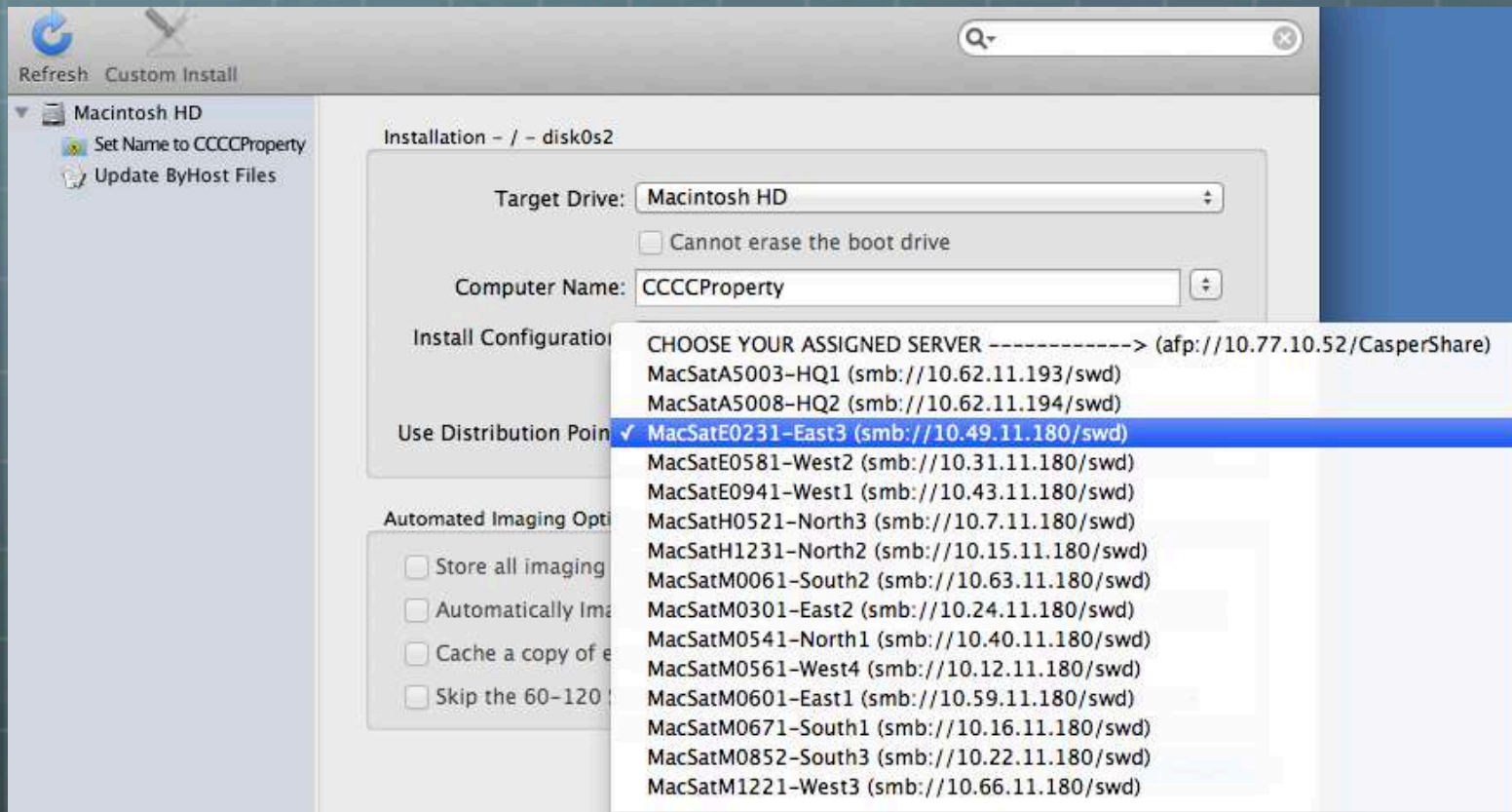
JAMF Imaging App to Retrieve Image



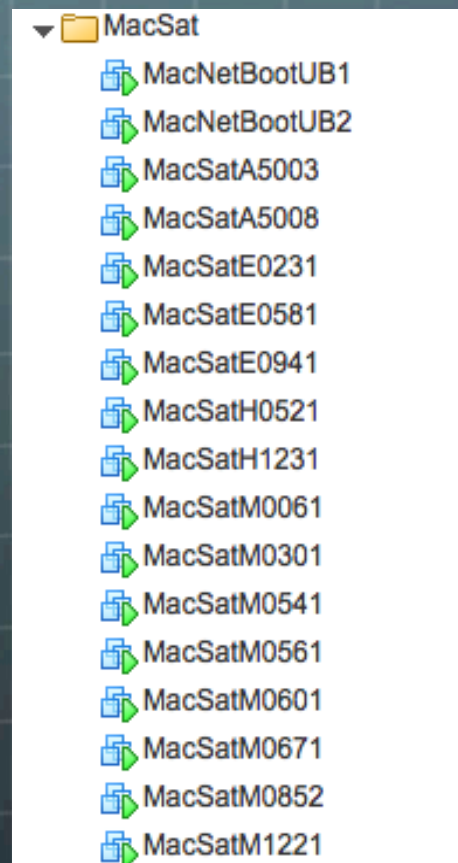
Target, Name, Config



Select Linux Distribution Server



All these Linux Distro and Netboot servers managed in Vcenter as VM's on Satellite Servers



MDM with Meraki

Network: E0021 Helen Caro Elementary Tag: All Search dashboard

New in Dashboard: ICMP Layer 3 Firewall Rules. [Read more.](#)

Client list

74 clients

#	Status	Name	Model	Tags *	OS	Connected	Connectivity	Disk % used	Serial
1		e0021-347047-Madison	MacBook Air	recently-added	OS X 10.10.3	now		25%	C1MPG2VWG943
2		e0021-347144-BergBrown	MacBook Air	recently-added	OS X 10.10.3	now		29%	C02PFS3JGPFWM
3		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Sep 24 2015 12:54		5%	DMPP63PGFP84
4		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Sep 24 2015 12:47		21%	DMPP640ZFP84
5		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Nov 06 2015 10:30		8%	DMPP63RFFP84
6		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Sep 24 2015 13:34		4%	DMPP63VNF84
7		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Sep 24 2015 12:52		5%	DMPP63SKFP84
8		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Sep 24 2015 13:02		5%	DMPP63WAF84
9		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Sep 24 2015 12:56		5%	DMPP63ZJFP84
10		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Nov 08 2015 20:14		5%	DMPP64KWFP84
11		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	Nov 08 2015 19:06		5%	DMPP6458FP84
12		West Side's iPad	iPad mini	recently-added	iOS 8.1.3	May 12 2015		3%	DMPP63QUFP84
13		e0021-332556	iPad 2	recently-added	iOS 9.1	Nov 20 2015 08:46		28%	DR5HFMJCDFHW
14		e0021-332564	iPad 2	recently-added	iOS 9.0.2	Nov 20 2015 08:50		26%	DR5HFMGJDFHW
15		e0021-336713	iPad 2	recently-added	iOS 9.1	Nov 20 2015 08:51		27%	F5RK578NDFHW
16		e0021-336713	iPad 2	recently-added	iOS 9.0.2	Nov 13 2015 14:48		29%	DR5HFN1MDFHW
17		e0021-336713	iPad 2	recently-added	iOS 8.3	Nov 20 2015 08:53		35%	F5RK56M1DFHW
18		e0021-336715	iPad 2	recently-added	iOS 8.1.3	Nov 20 2015 08:57		43%	F5RK56FADFHW
19		e0021-336910	iPad 2	recently-added	iOS 9.0.2	Nov 20 2015 08:56		60%	F5QKD0YGDFHW
20		e0021-ipad_16	iPad 2	recently-added	iOS 9.1	Nov 20 2015 08:56		33%	F5QKD014DFHW

A need for “Location Services”

drech@escambia.k12.fl.us | [1 new feature](#) | customer number: 5200-4213 | [my profile](#) | [sign out](#)

cisco Meraki Network: Tag:

[Search dashboard](#)

Systems manager

Organization

Help

New In Dashboard: [ICMP Layer 3 Firewall Rules](#). [Read more](#)

Clients > **e0021-347144-BergBrown** [Previous client](#) | [Next client](#)

Client details | [Refresh details](#) | [Edit details](#)

Name: e0021-347144-BergBrown
Model: MacBook Air
Serial: C02PFS3JGFWM
Warranty: [Apple](#)
Tags: [recently-added](#)
Auto tags: [Mac devices](#)
Owner: [Set an owner](#)

OS
Version: OS X 10.10.3
Last user: -

Security
Encryption: Disabled

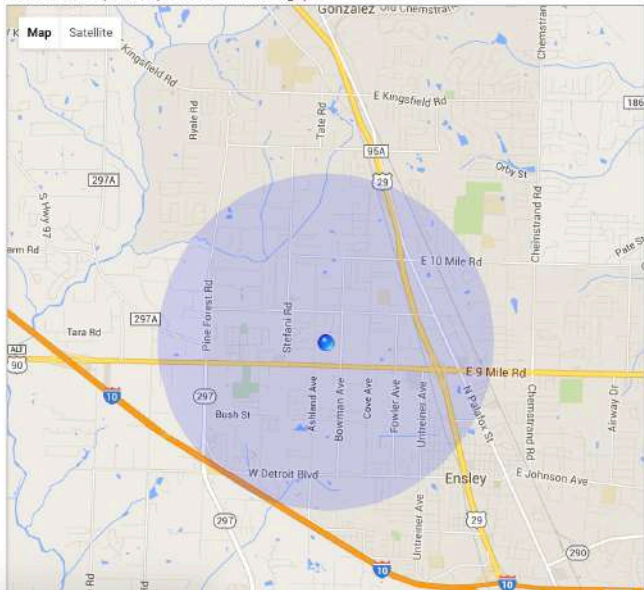
Management
Settings: [up-to-date](#)
Supervised: -
Managed Profile: No
Device Owner: No
Enrollment date: 08:33 May 7 2015

Storage
Device storage: 32.1 GB / 111.8 GB 29%

Network
Public IP: 204.78.76.13
WiFi MAC: 98:E0:D9:82:F4:DB
Bluetooth MAC: -

Online status | [Check-in now](#)
Last check-in: 10:38 Mar 29 2016

Approximate location [Refresh location](#)
Pensacola, FL (via IP, updated 10 minutes ago)



A need to push Apps

drech@escambia.k12.fl.us | [1 new feature](#) | customer number: 5200-4213

CISCO Meraki Network:

Systems manager









Organization

Help

New in Dashboard: [ICMP Layer 3 Firewall Rules](#). [Read more.](#)

App management

Edit Scope ▾ Delete ▾ Push ▾ **8 apps**

<input type="checkbox"/>	#	Name ▲	OS	Scope	Tags
<input type="checkbox"/>	1	 Accelerated Reader™	iOS	All devices	
<input type="checkbox"/>	2	 Google Classroom	iOS	All devices	
<input type="checkbox"/>	3	 Google Docs	iOS	All devices	
<input type="checkbox"/>	4	 Google Drive - free online storage from Google	iOS	All devices	
<input type="checkbox"/>	5	 Google Slides	iOS	All devices	
<input type="checkbox"/>	6	 Meraki Systems Manager	iOS	All devices	
<input type="checkbox"/>	7	 Nearpod	iOS	All devices	
<input type="checkbox"/>	8	 Wunderlist: To-Do List & Tasks	iOS	All devices	

Kanaka 3 Deployment's

Deployed 5+ years ago at Cook Elem, Beulah Elem and Warrington Elem. The following issues were experienced:

- 🌐 Kanaka client issues, bugs.
- 🌐 The need for profiles and Apps to be controlled by WorkGroup Manager on a Mac XServers. Knowledge base of tech coordinators and district level tech's. Redundant Xserve network administration. Apple not enterprise ready.
- 🌐 MCX settings and case sensitivity of home directory's.
- 🌐 Unique user import requirements.
- 🌐 Extreme LDAP, DNS, and SLP network issues and latency across subnets. At the time there was wireless WAN connectivity to most schools.
- 🌐 Requires re-image of all schools Mac computers due to workstation variables.
- 🌐 Separate eDirectory password's, learning curve for elementary teachers and students. (The Mac population 37 schools)
- 🌐 Resistance from tech coordinators due to above issues.

ZenWorks for Mac: Plagued by DNS to Name issues. Corrected with recent ZenWorks update.

Novell ZENworks
Zone: ECS0_ZEN_ZONE

Devices > Workstations > Elementary Schools > E0291

Status	Name	Type	Operating System	Last Contact
	E0291_Lighthouse	Workstation Group		
	e0291-10Lab2	Workstation	osx-10.9-x86_64	8:15 AM
	e0291-311421	Workstation	mac-osx-10.5-x86_64	Mar 3
	e0291-311427-CSmith	Workstation	mac-osx-10.5-x86_64	7:36 AM
	e0291-311430-Loftin	Workstation	mac-osx-10.5-x86_64	Mar 7
	e0291-315053-Stokes-2	Workstation	mac-osx-10.5-x86_64	7:45 AM
	e0291-315054-Clark	Workstation	mac-osx-10.5-x86_64	8:17 AM
	e0291-316822-Waldron	Workstation	osx-10.9-x86_64	Mar 18
	e0291-316881-cc1v	Workstation	osx-10.8-x86_64	6:41 AM
	e0291-316883-stewart	Workstation	osx-10.8-x86_64	7:33 AM
	e0291-316886-mclab	Workstation	osx-10.9-x86_64	7:46 AM
	e0291-316887-mclab	Workstation	osx-10.9-x86_64	7:45 AM
	e0291-316888-mclab	Workstation	osx-10.9-x86_64	7:47 AM
	e0291-316891-mclab	Workstation	osx-10.9-x86_64	7:46 AM
	e0291-316892-mclab	Workstation	osx-10.9-x86_64	7:45 AM
	e0291-316893-WCLab	Workstation	osx-10.9-x86_64	8:42 AM
	e0291-316895-WCLab	Workstation	osx-10.9-x86_64	7:45 AM
	e0291-316896-mclab	Workstation	osx-10.9-x86_64	7:46 AM
	e0291-316897-Jones	Workstation	osx-10.9-x86_64	7:45 AM
	e0291-316898-mclab	Workstation	osx-10.9-x86_64	7:45 AM
	e0291-316900-Jimenez	Workstation	osx-10.9-x86_64	3:53 AM
	e0291-316901-mclab	Workstation	osx-10.9-x86_64	7:51 AM
	e0291-316902-Young	Workstation	osx-10.9-x86_64	Feb 4
	e0291-316903-Stewart	Workstation	osx-10.9-x86_64	Mar 28
	e0291-316905-Grassmann	Workstation	osx-10.9-x86_64	1:56 AM
	e0291-316906-frontdesk	Workstation	osx-10.9-x86_64	6:52 AM
	e0291-316907-Frassetti	Workstation	osx-10.9-x86_64	7:24 AM

End

