



jamf

NATION

User Conference

2018



Steve Wood

Endpoint Services Manager
Omnicom Group

@stevewood_tx

🐦 @stevewood_tx



Who

- 90,000+ employees worldwide
- Roughly 15,000 Mac endpoints in NA & UK
- Spread across 100+ organizations

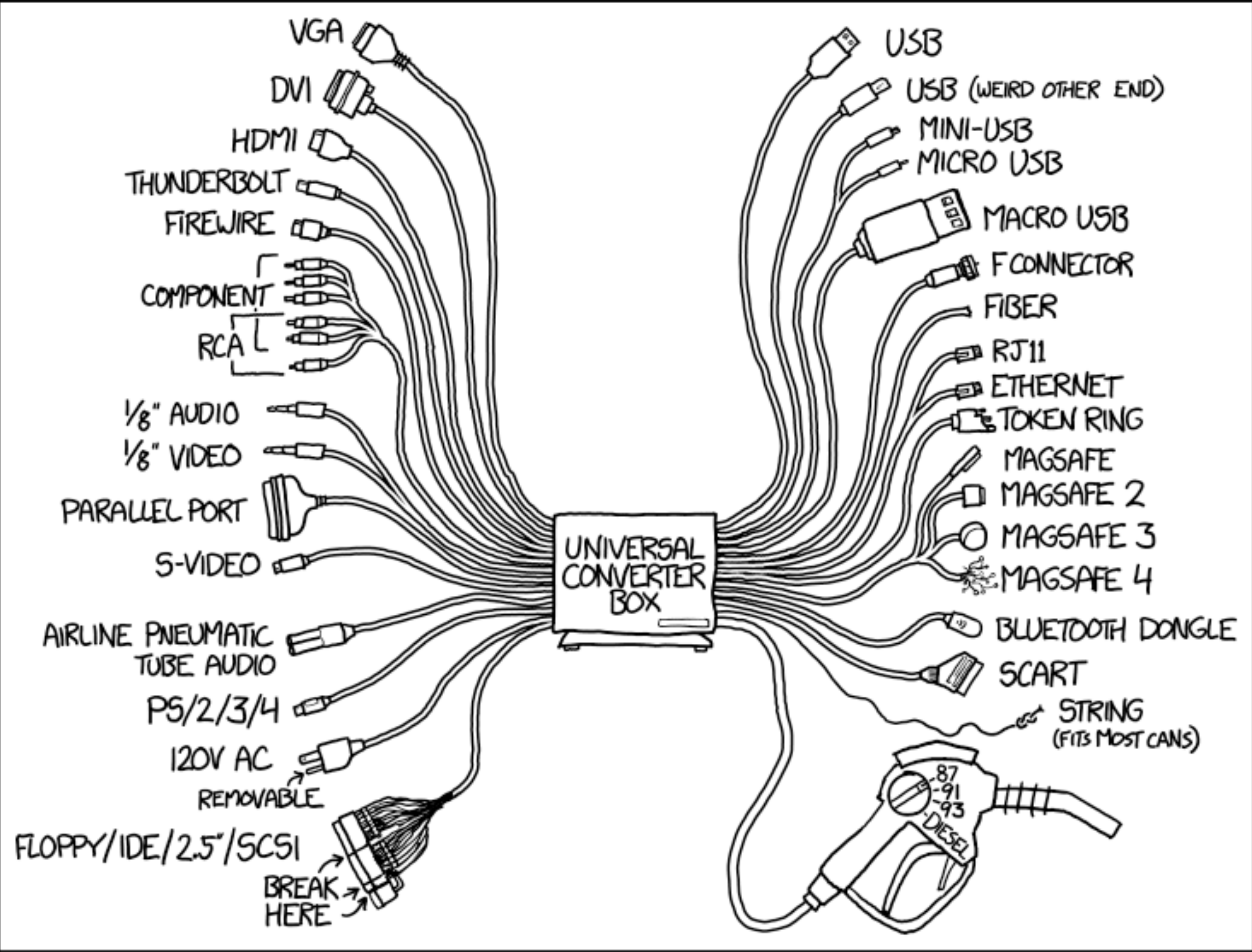




Planning

- What are the tasks to standup the environment
- What are your infrastructure requirements
- Where will your infrastructure live
- Be sure to include Dev / Test / Prod environments





Standards

- Develop a standard build and stick to it
- Develop a naming standard and stick to it
- Develop an Application Catalog and stick to it
- Develop how you want your JPS to look and stick to it
- Document all of this and get it approved!





Permissions / Authority

- Be empowered by senior leadership
- Make sure that authority is communicated
- Create advisory boards in the business units





Build It

- Get the infrastructure experts involved early
- Find a good developer and keep them
- Reach out for assistance with the design and build
- Don't be afraid to ask for help from anyone





“No battle
plan ever
survives
contact with
the enemy.”

Helmuth von Moltke the Elder
Prussian general
born October 26, 1800

Dobson's Improbable Quote of the Day



Flexibility

- Be prepared to change your plan
- There is always more than one way to do something
- Ask the Mac Admin Community and listen





Smart Group Sprawl

- The number of Smart Groups can impact performance
- Don't use a Smart Group when an Advanced Search will do
- Try not to use “fuzzy” logic, stay away from “like”
- Nerd Note: Use the new REGEX capabilities in 10.3+





Fuzzy Search

Computer Group		Criteria		
AND/OR		CRITERIA	OPERATOR	VALUE
	<div>▼</div>	Operating System Version	<div>like ▼</div>	<div>10.9.</div>
<div>or ▼</div>	<div>▼</div>	Operating System Version	<div>like ▼</div>	<div>10.10.</div>
<div>or ▼</div>	<div>▼</div>	Operating System Version	<div>like ▼</div>	<div>10.11.</div>
<div>or ▼</div>	<div>▼</div>	Operating System Version	<div>like ▼</div>	<div>10.12.</div>
<div>or ▼</div>	<div>▼</div>	Operating System Version	<div>like ▼</div>	<div>10.13.</div>





Search

Criteria

Display

AND/OR		CRITERIA	OPERATOR	VALUE			
	<div>▼</div>	Last Reported IP Address	<div>like▼</div>	<div>10.50.32.</div>	<div>...</div>	<div>▼</div>	<div>Delete</div>
<div>or▼</div>	<div>▼</div>	Last Reported IP Address	<div>like▼</div>	<div>10.50.33.</div>	<div>...</div>	<div>▼</div>	<div>Delete</div>
							<div>+ Add</div>





Search

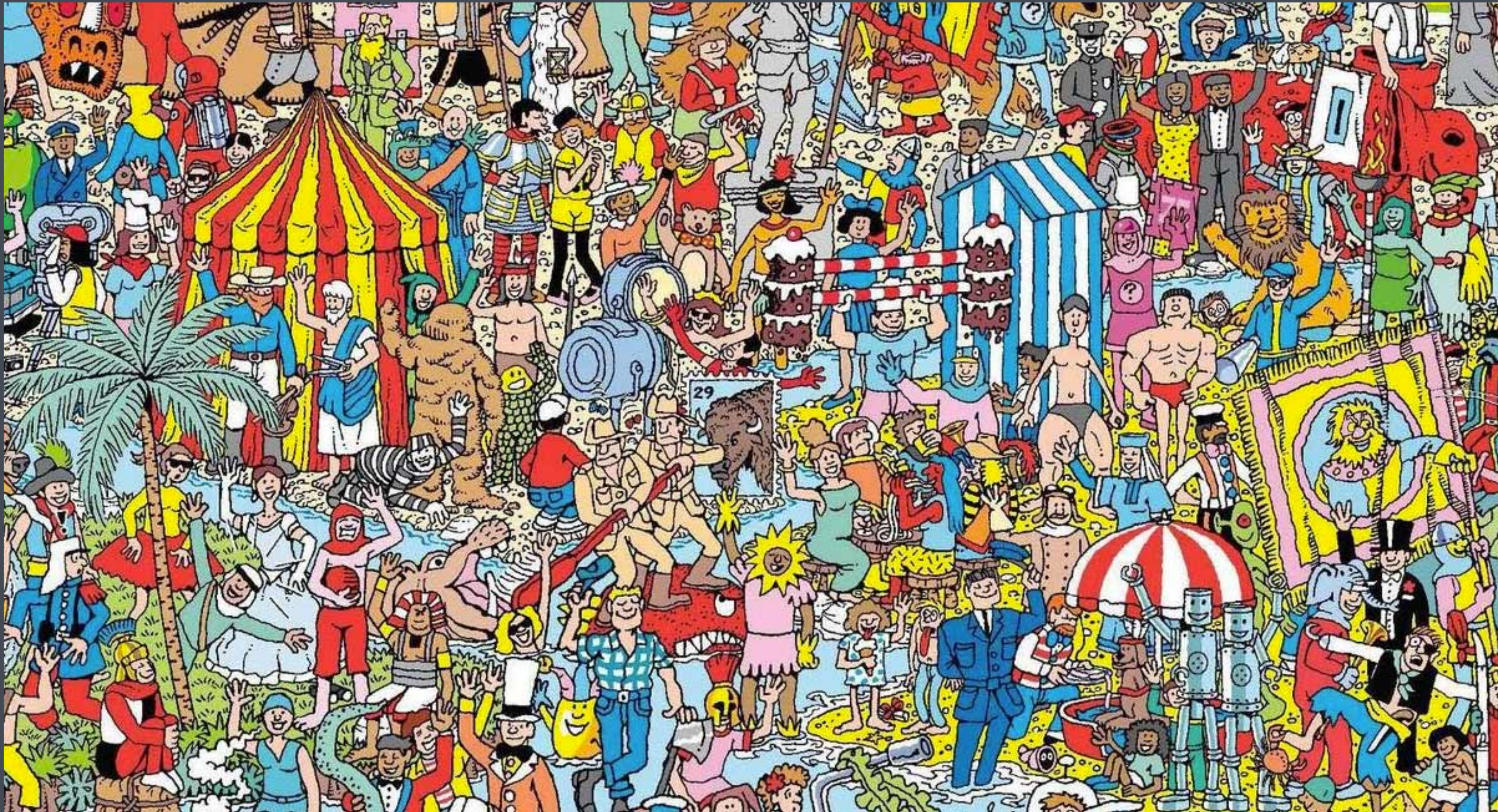
Criteria

Display

AND/OR	CRITERIA	OPERATOR	VALUE		
<div>▼</div>	Last Reported IP Address	matches regex ▼	<div>^10\.50\.(32\.[1-9][0-9] 1[0-9][0-9] 2[0-4][0-9] 5[0-5]) ((3[2-3])\.([0-9] 1[0-9][0-9] 1[0-9][0-9] 2[0-4][0-9] 5[0-5])) 33\.([0-9] 1[0-9][0-9] 1[0-9][0-9] 2[0-4][0-9] 5[0-4]))\$</div>	<div>...</div>	<div>▼</div> <div>Delete</div>
<div>+ Add</div>					

^10\.50\.(32\.[1-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|5[0-5])|((3[2-3])\.([0-9]|1[0-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|5[0-5]))|33\.([0-9]|1[0-9][0-9]|1[0-9][0-9]|2[0-4][0-9]|5[0-4]))\$





Identify Your Scope

- Know how you'll identify devices
- Think about extra information you want to track
- Utilize plist files and Extension Attributes to store data



Write your “tags” to a plist file on the system

```
## Write values to plist
/bin/echo "Writing to plist"
/bin/date
${defaults} write "${surveyPlist}" City "${city}"
${defaults} write "${surveyPlist}" Country "${country}"
${defaults} write "${surveyPlist}" Department "${userDep}"
${defaults} write "${surveyPlist}" Company "${agency}"
${defaults} write "${surveyPlist}" ProvisionedIP "${IPAddress}"
${defaults} write "${surveyPlist}" Email "${userEmail}"
${defaults} write "${surveyPlist}" ComputerName "${compName}"
${defaults} write "${surveyPlist}" AssetTag "${assetTag}"
```





Now you can read that data in with an Extension Attribute

```
#!/bin/bash

defaults='/usr/bin/defaults'
surveyFile="/path/to/survey/file/com.company.survey.plist"

echo "<result>`defaults read "$surveyFile" City`</result>"
```





Extension Attributes

AD UPN:

Adobe CC Serial Number: 909607492298027151071809

Adobe Deployment Type: UNKNOWN SUBSCRIPTION

Adobe Expiry Tool: NoExpiredLicensesFound

Adobe Output Module Exists:

Agency: OMC

AssetTag: OMC052526

City: Dallas

City (Scrape): Dallas

Company: OMC

Computrace: ;Not installed

Country: US

Department (Scrape): IT





DAMN RIGHT

IT FEELS GOOD TO BE A GANGSTA



Printer Policies

- We chose to utilize scripts to add printers
- Gives us more control over drivers and printers
- Can utilize one script to check for driver and install printer





First make sure drivers are present

```
## install drivers
if [[ ! -f "/Library/Printers/PPDs/Contents/Resources/HP Color MFP E87640-50-60.gz" ]]; then

    /usr/local/bin/jamf policy -id 1680

fi
```



Now you can install the printers

```
case "$4" in
Printer1)

    ${lpa} -p PRINTER1 -E -o printer-is-shared=false -v ipp://10.1.1.1 -D "PRINTER1" \
        -P "/Library/Printers/PPDs/Contents/Resources/HP Color MFP E87640-50-60.gz"
    ;;

Printer2)

    ${lpa} -p PRINTER2 -E -o printer-is-shared=false -v ipp://10.1.1.2 -D "PRINTER2" \
        -P "/Library/Printers/PPDs/Contents/Resources/HP Color MFP E87640-50-60.gz"
    ;;

Office)

    ${lpa} -p PRINTER1 -E -o printer-is-shared=false -v ipp://10.1.1.1 -D "PRINTER1" \
        -P "/Library/Printers/PPDs/Contents/Resources/HP Color MFP E87640-50-60.gz"

    ${lpa} -p PRINTER2 -E -o printer-is-shared=false -v ipp://10.1.1.2 -D "PRINTER2" \
        -P "/Library/Printers/PPDs/Contents/Resources/HP Color MFP E87640-50-60.gz"

esac
```





General

DISPLAY NAME

Display name for the policy

Printer1

✓

Enabled

CATEGORY

Category to add to

Printers

Trigger

Event(s) to use to initiate

☐

Startup

When a computer starts

☐

Login

When a user logs in to a

☐

Logout

When a user logs out of

☐

Network State Change

When a computer's network

changes)

☐

Enrollment Complete

Immediately after a computer completes the enrollment process

☐

Recurring Check-in

At the recurring check-in frequency configured in Jamf Pro

☐

Custom

At a custom event

EXECUTION FREQUENCY

Frequency at which to run the policy

Ongoing

Scripts

Add Printers

PRIORITY

Priority to use for running the script in relation to other

After

Parameter Values

Values for script parameters

Printer Name

Printer1

General

DISPLAY NAME

Display name for the policy

Office Printers

✓

Enabled

CATEGORY

Category

Printers

Trigger

Event(s) to use to initiate

☐

Startup

When a computer

☐

Login

When a user log

☐

Logout

When a user log

☐

Network State Change

When a computer

changes)

☐

Enrollment Complete

Immediately after a computer completes the enrollment process

☐

Recurring Check-in

At the recurring check-in frequency configured in Jamf Pro

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Custom

At a custom event

EXECUTION FREQUENCY

Frequency at which to run the policy

Ongoing

Scripts

Add Printers

PRIORITY

Priority to use for running the script in relation to other

After

Parameter Values

Values for script parameters. Parameter

Printer Name

Office





Provisioning Computers


- Imaging is Dead!
- If you're not enrolled in DEP, get enrolled
- Take time to build a pleasing process*
- Think about who will be doing the provisioning
- Use this opportunity to gather important data

<https://www.jamf.com/resources/webinars/zero-to-productive-a-better-employee-onboarding-experience/>






Country



Please choose the Country:

Canada

Agency




Please choose the Agency:

Adam & Eve

Okay


Computer Name



Computer name: CA2ALMM0V20QCG1

Ok


City



Please choose the city this computer will be in:

Dallas


Department



Please choose the appropriate role:

Account


User E-Mail



Please enter the email of the end user(leave blank if machine is unassigned):

Cancel Okay


Asset Tag



Please enter the asset tag of the machine:

Cancel Okay

Provisioning



Starting Provisioning

We are downloading some pieces for provisioning. We will continue in a minute.





```
## upload log to JPS
```

```
apiUser=$(DecryptString $4 '2e8ae0cfc360c410' '6dc974ae54c08a91d1ba4b')
apiPass=$(DecryptString $5 'aee810da39e48b93' 'e78b44b6e96bf2892bc06de4')
jpsURL="https://your.jamfserver.com"
serial=$(system_profiler SPHardwareDataType | awk '/Serial\ Number\ \(system\) / {print $NF}');
```

```
## get ID of computer
```

```
JSS_ID=$(curl -H "Accept: text/xml" -sfku "${apiUser}:${apiPass}" "${jpsURL}/JSSResource/computers/serialnumber/${serial}/subset/general" \
| xpath /computer/general/id[1] | awk -F'>|<' '{print $3}')
curl -sku $apiUser:$apiPass $jpsURL/JSSResource/fileuploads/computers/id/$JSS_ID -F name=@${logfile} -X POST
```





Software Updates

- Require updates to be installed
- But offer users ability to defer, but not forever
- And offer a Self Service installation option
- Limit “In Their Face” time







macOS Update Required

macOS Update Available



macOS Update Required



Final Warning

There is a required OS Update available for your computer. You have already deferred the update 3 times. If you do not choose to update now, the update will happen automatically in 24 hours time.

Defer


Update






macOS Update Required

macOS Update Available




macOS Update Required

Final Warning



macOS Update Required

macOS Update Available



There is a required OS update available for your computer. You have already deferred this update 4 times. The update will now begin.

Ok



References

- <https://github.com/stevehood-tx/JNUC2018>
- Macadmins Slack - <http://macadmins.org>
- DEP Notify - <https://marketplace.jamf.com/details/depnotify>
- Zero To Productive - <https://www.jamf.com/resources/webinars/zero-to-productive-a-better-employee-onboarding-experience/>
- Using Regex in Smart Groups: <https://tinyurl.com/y8mh44c8>



Thank you for listening!

Give us feedback by
completing the 2-question
session survey in the JNUC
2018 app.

UP NEXT

Session title

Session time

