jamf

NATION

User Conference

2018

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Who

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

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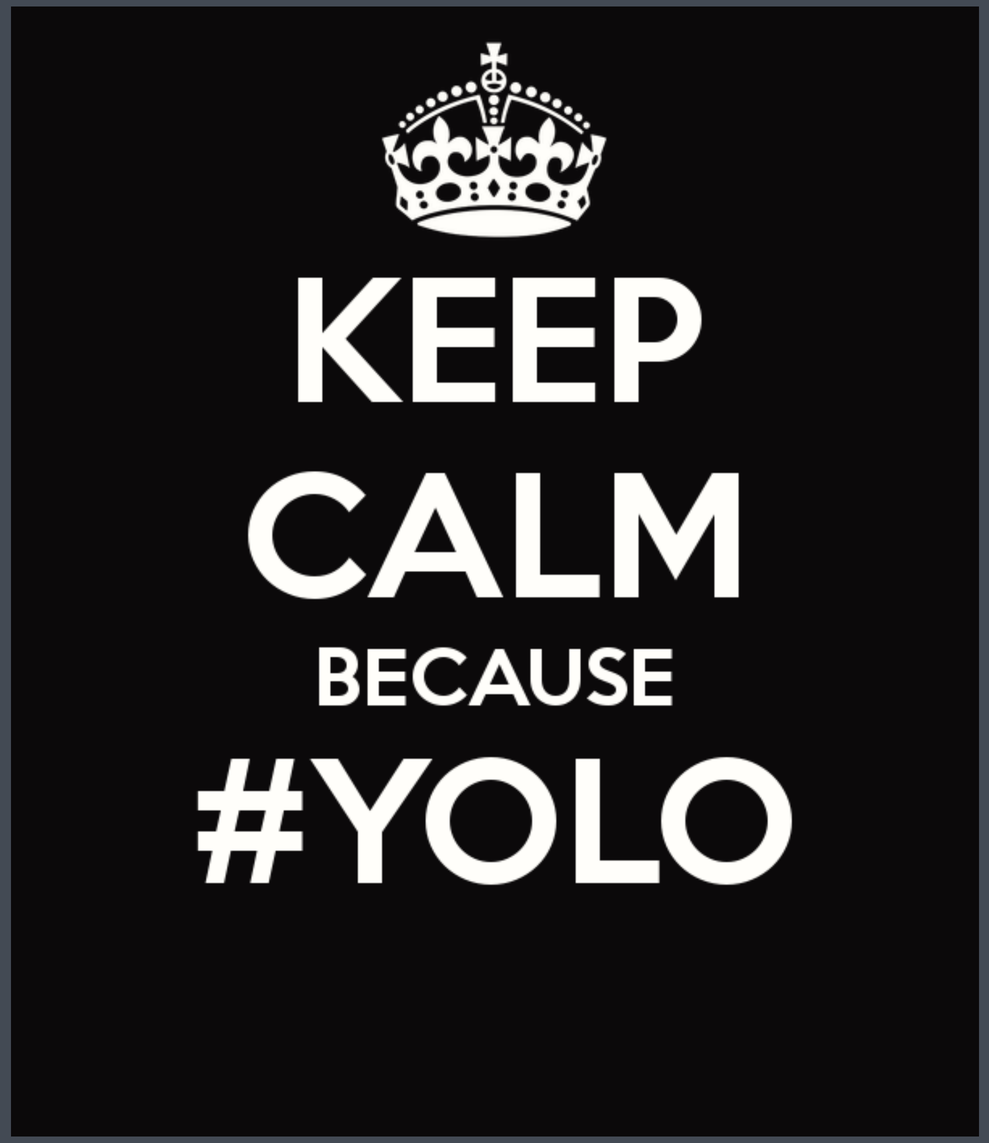

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Planning

- 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

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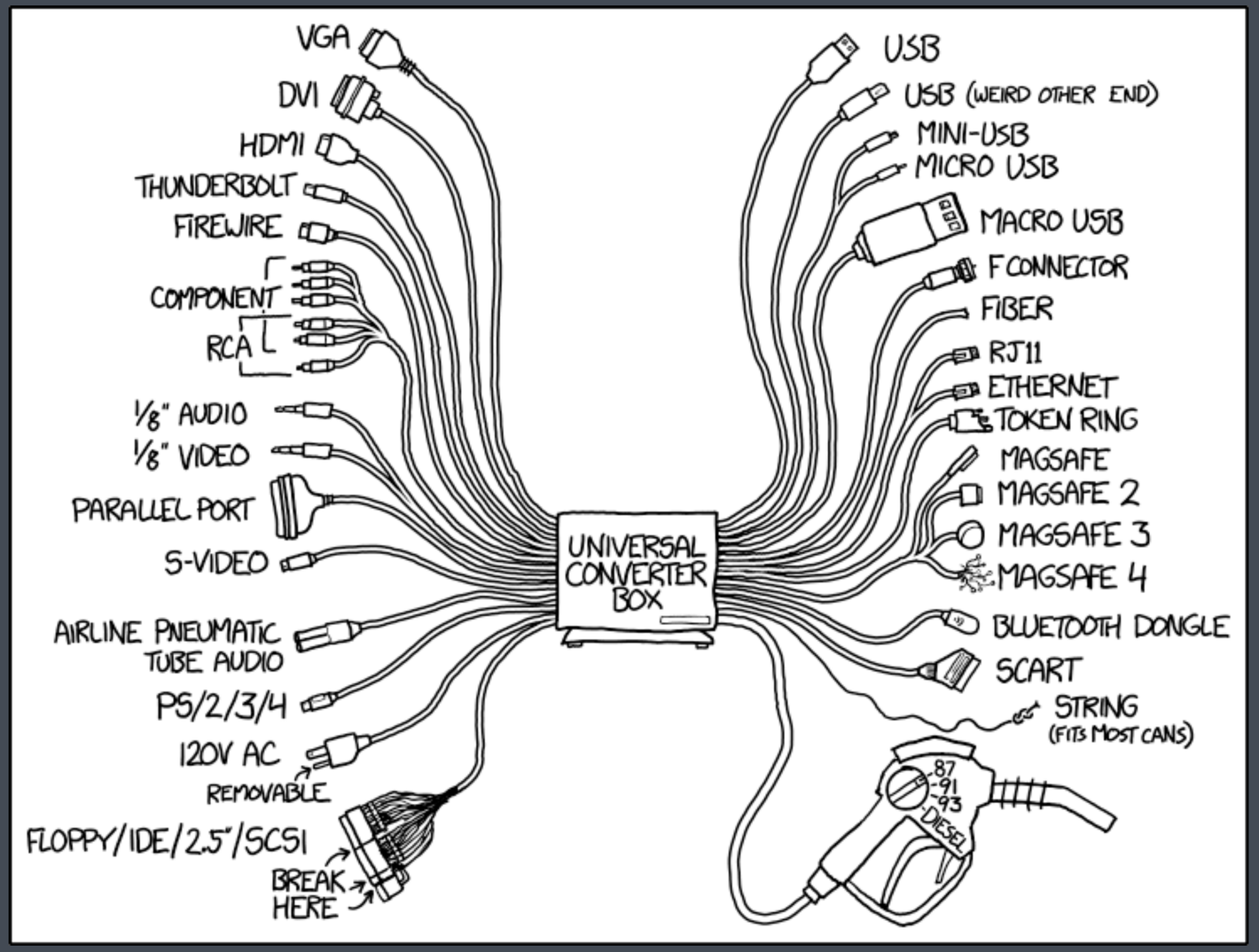

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Standards

- 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!

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Permissions / Authority

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

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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

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"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

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Flexibility

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

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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+

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Fuzzy Search

Computer Group | Criteria

AND/OR		CRITERIA	OPERATOR	VALUE
		Operating System Version	like	10.9.
or		Operating System Version	like	10.10.
or		Operating System Version	like	10.11.
or		Operating System Version	like	10.12.
or		Operating System Version	like	10.13.

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Search | Criteria | Display

AND/OR		CRITERIA	OPERATOR	VALUE			
		Last Reported IP Address	like	10.50.32.	•••		Delete
or		Last Reported IP Address	like	10.50.33.	•••		Delete

+ Add

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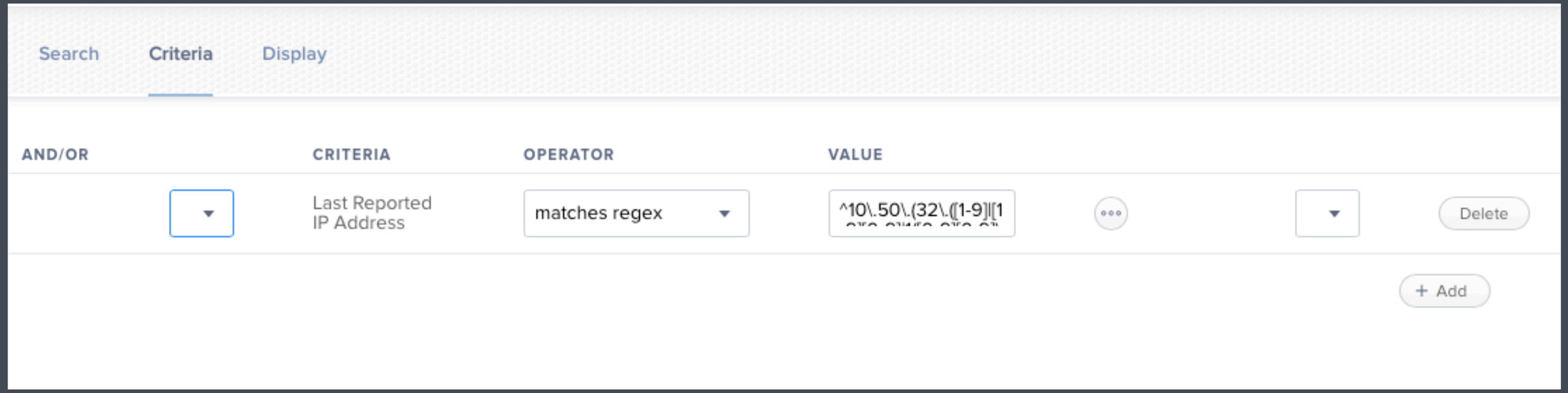

^10\.50\.(32\.([1-9]|[1-9][0-9]|1([0-9][0-9])|2([0-4][0-9]|5[0-5]))|((3[2-3])\.([0-9]|[1-9][0-9]|1([0-9][0-9])|2([0-4][0-9]|5[0-5])))|33\.([0-9]|[1-9][0-9]|1([0-9][0-9])|2([0-4][0-9]|5[0-4])))$

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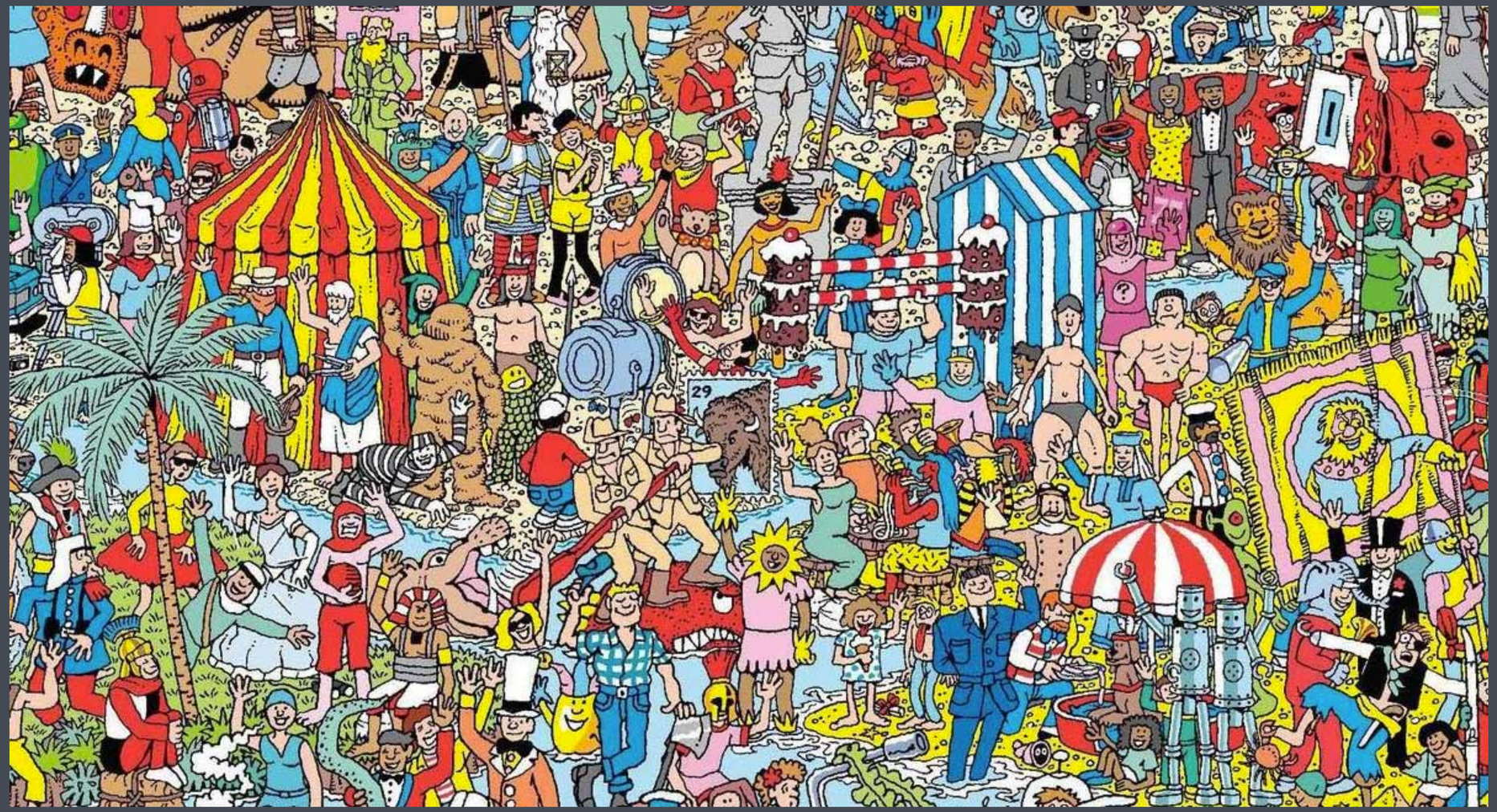

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Identify Your Scope

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

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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}"
```

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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>"
```

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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

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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

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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
```

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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
```

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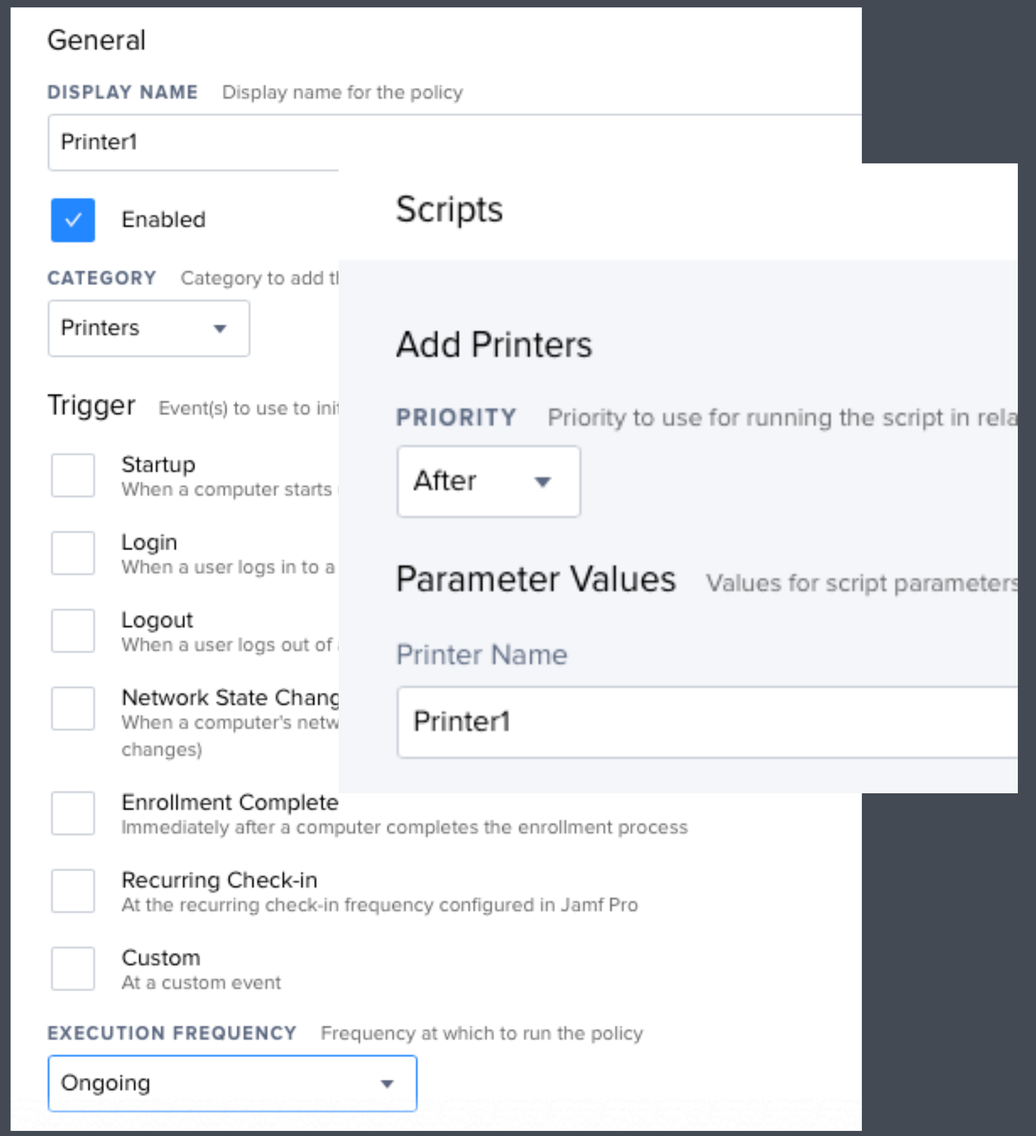

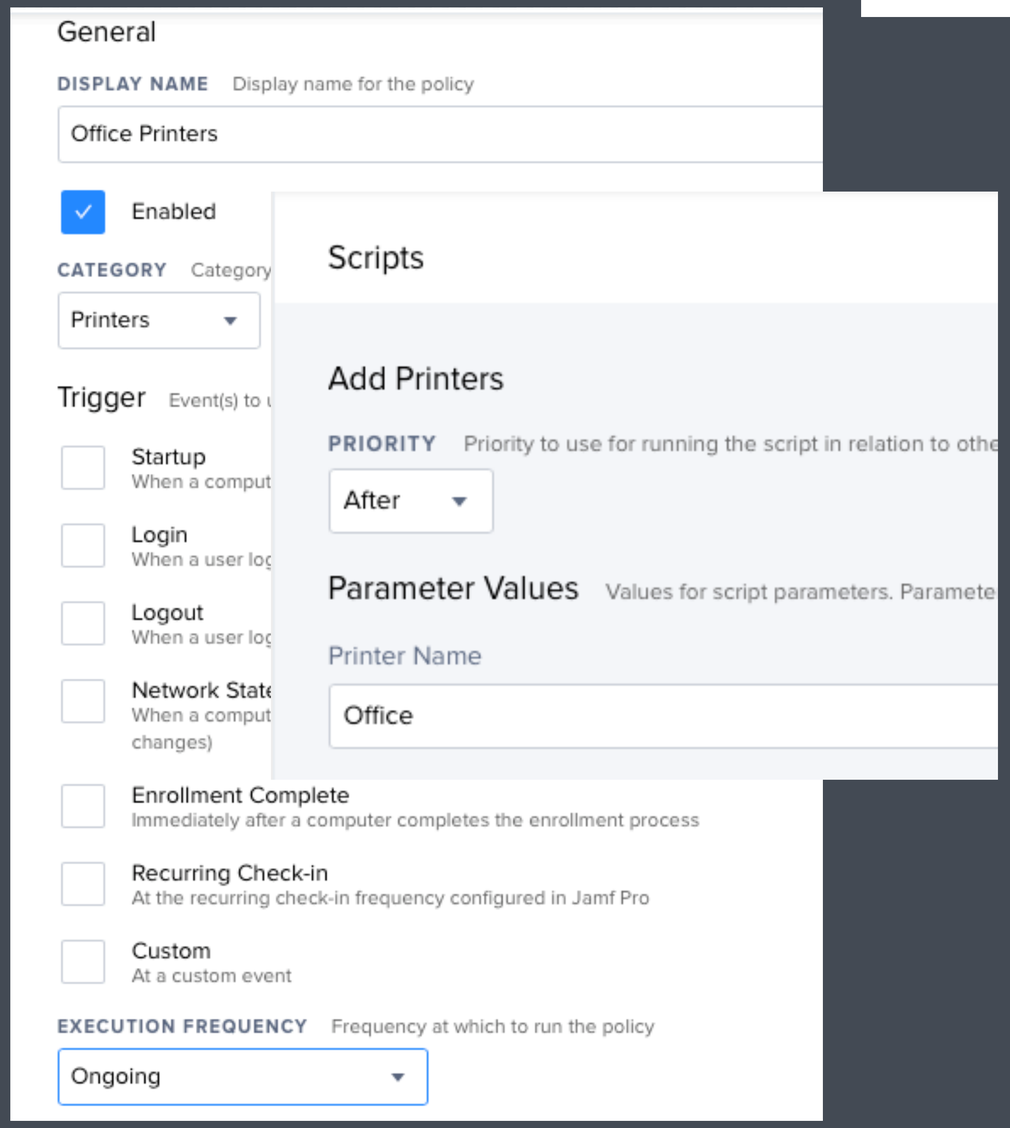

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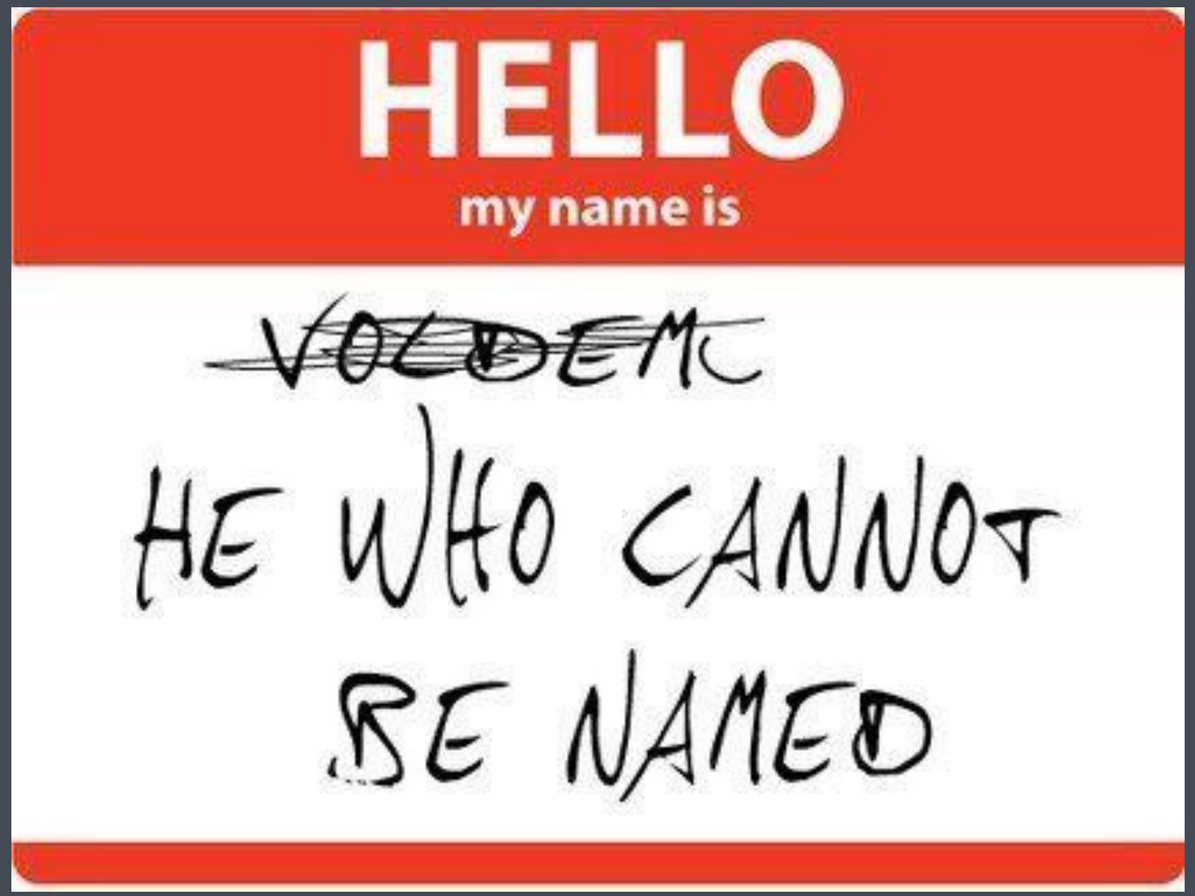

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Provisioning Computers

- 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/

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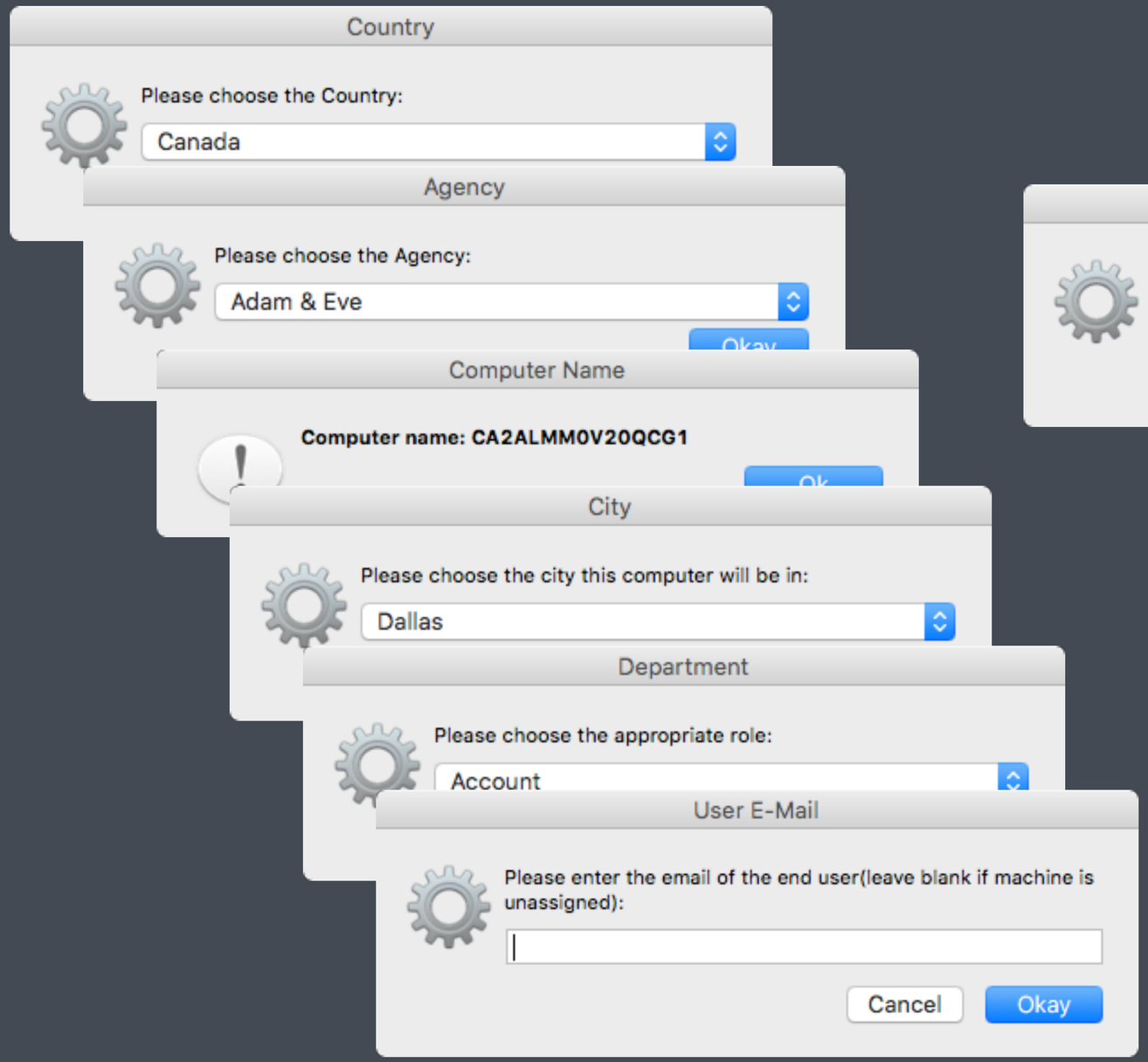

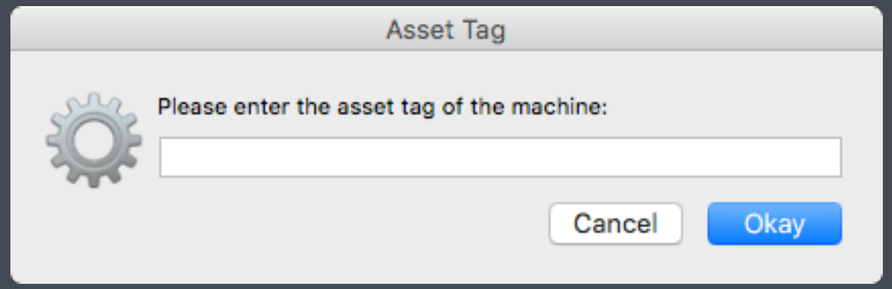

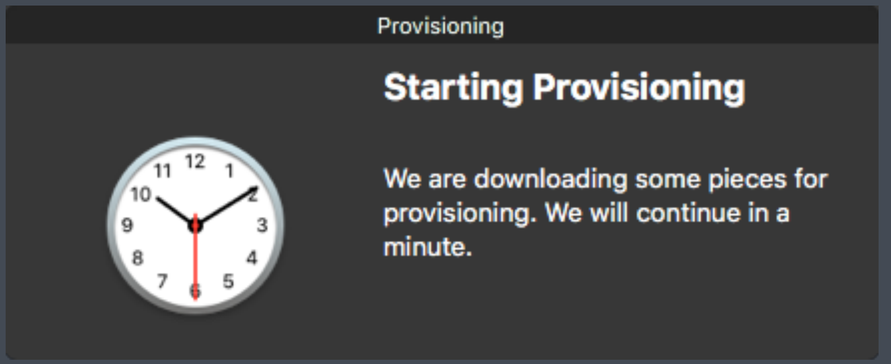

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```
## upload log to JPS
apiUser=$(DecryptString $4 '2e8ae0cfc360c410' '6dc974aeee54c08a91d1ba4b')
apiPass=$(DecryptString $5 'aee810da39e48b93' 'e78b44b6e96bf2892bc06de4')
jpsURL="https://your.jamfserver.com"
serial=$(system_profiler SPHardwareDataType | 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
```

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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

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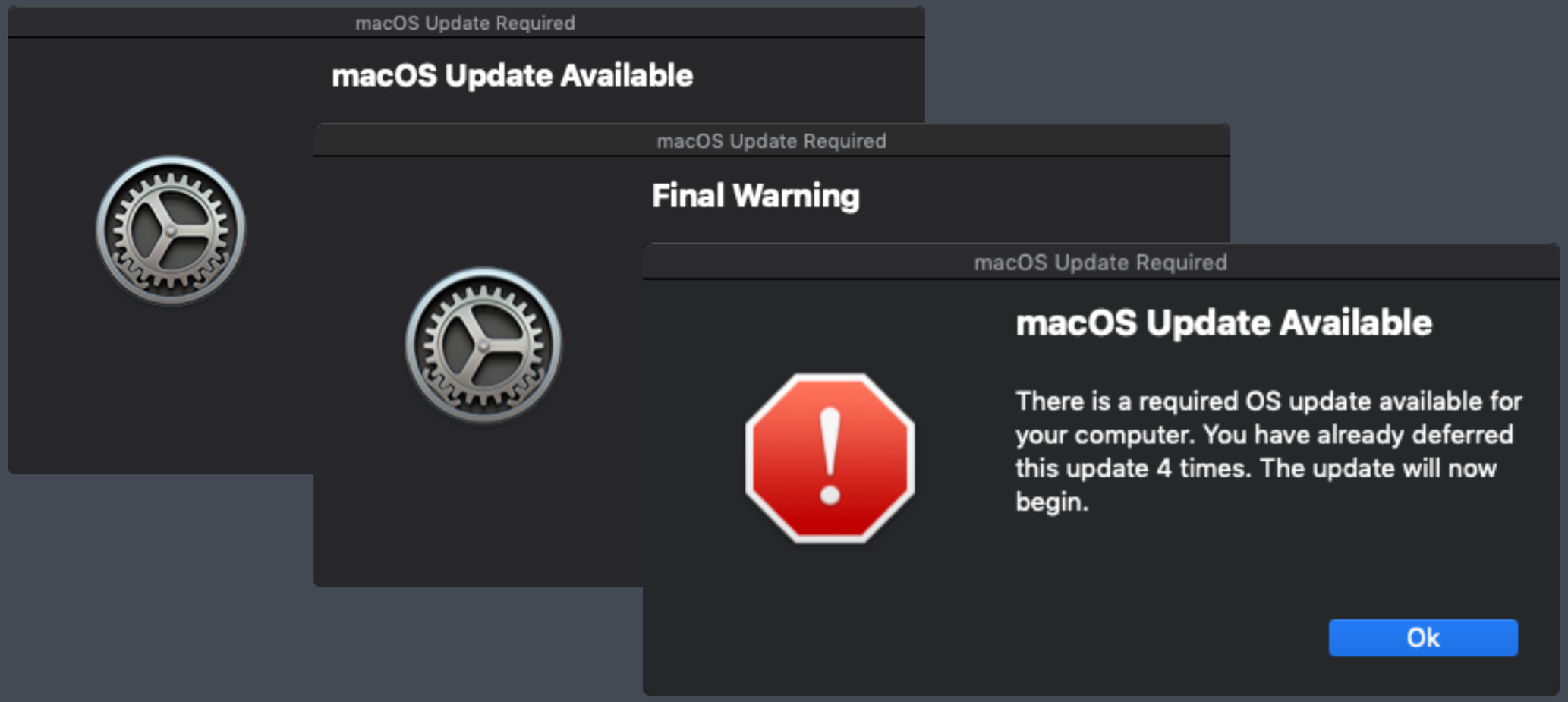

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References

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- 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

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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

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