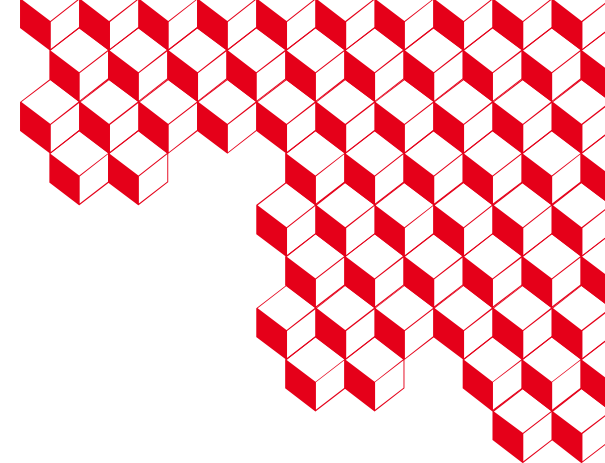




irfu



Les Macs à l'Irfu

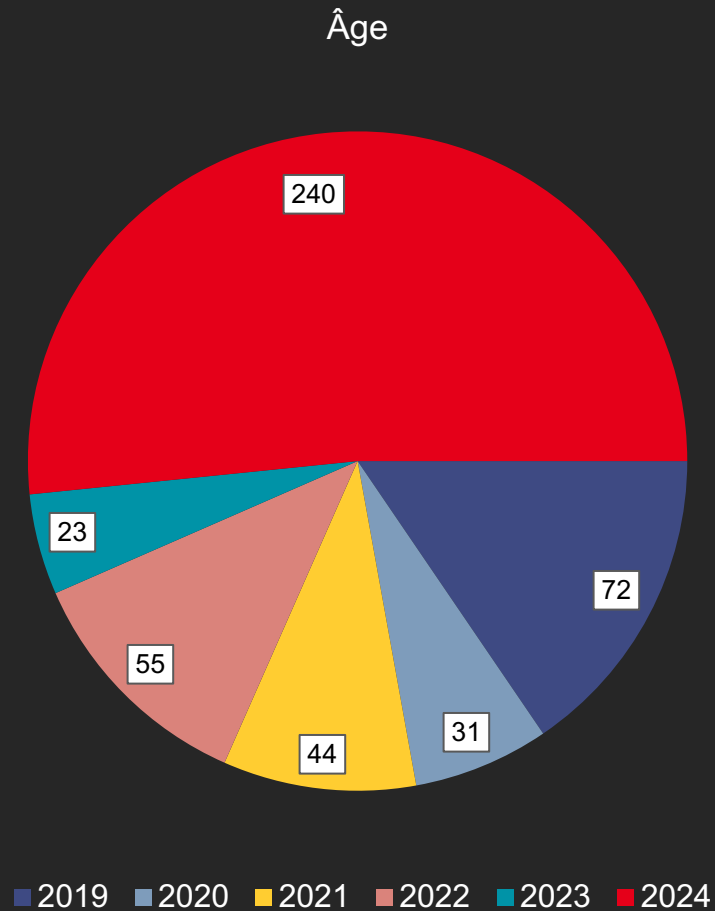
Un Unix comme Linux

GLPI, Puppet, Foreman, Munki

Les Macs à l'Irfu

- 1. Inventaire**
- 2. Post installation / Configuration**
- 3. Utilisateurs**
- 4. Munki / MunkiAdmin**
- 5. Autopkg / Autopkgr**

Inventaire

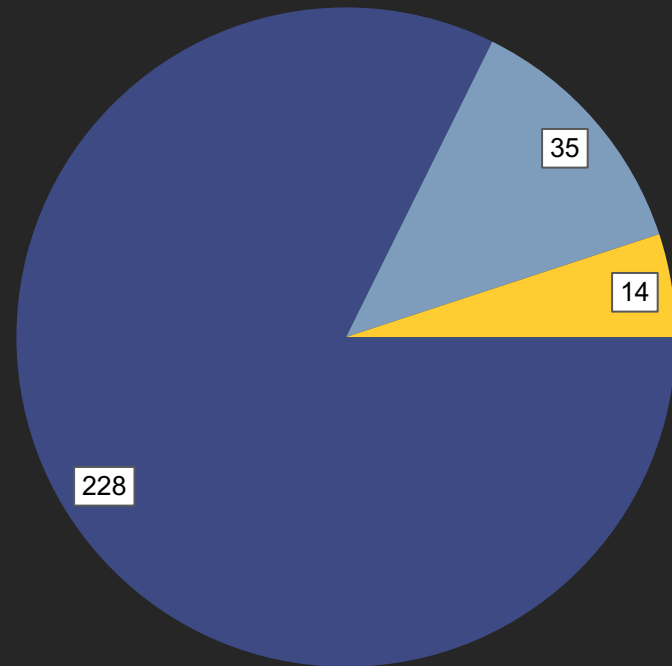


□ **465 Macs référencés**

□ 240 contactés depuis 6 mois

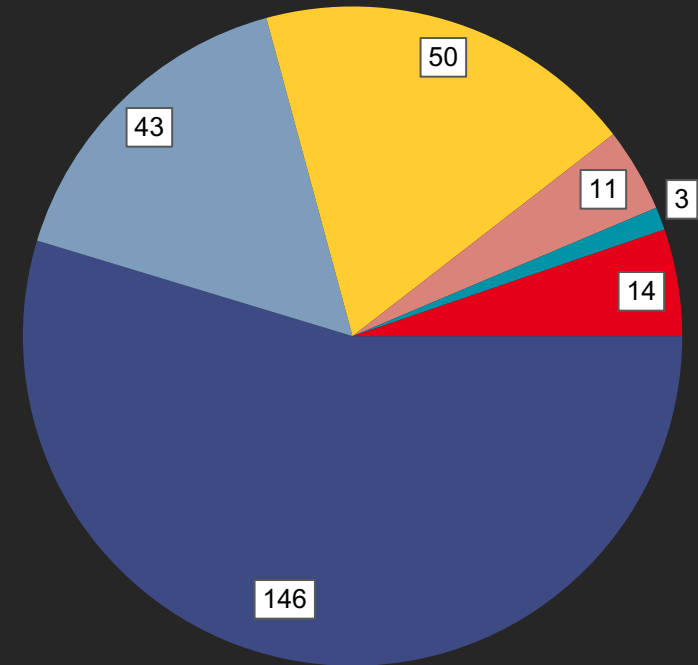
Inventaire

par modèle



■ MacBookPro ■ MacBookAir ■ iMac Mini Pro

par département



■ DAp ■ Dphn ■ Dphp ■ Dedip ■ Dis Dacm ■ Mdls

- Ordinateur
- Analyse d'impact
- Systèmes d'exploitation 1
- Composants 26
- Volumes 42
- Logiciels 43
- Connexions 1
- Ports réseau 17
- Connecteurs
- Contrôle à distance
- Gestion
- Contrats
- Documents
- Virtualisation
- Antivirus
- Base de connaissances
- Tickets
- Problèmes
- Changements
- Liens
- Verrous
- Notes
- Réservations
- Domaines 1
- Informations d'import 31
- Historique 55785
- Tous

Ordinateur - dedipmcf23

Root entity > IRFU Sous-entités

Nom	dedipmcf23	Statut	----- i +
Lieu	----- i + 📧	Type	Laptop i +
Responsable technique	----- i	Fabricant	Apple Inc. i +
Groupe technique	----- i +	Modèle	iMac17,1 i +
Usager numéro		Numéro de série	C02SV0ZTGG7N
Usager	honore	Numéro d'inventaire	
Utilisateur	HONORE Pierre-françois i	Réseau	----- i +
Groupe	----- i +	UUID	4F5DE04E-BCB9-5F87-A961-B0A805F58C07
Commentaires		Source de mise à jour	GLPI Native Inventory i +

Mettre à la corbeille

Informations d'inventaire

Agent	dedipmcf23-2024-06-19-17-37-05	UserAgent	GLPI-Agent_v1.9
Tag d'inventaire	iMac	Dernier inventaire	2024-07-01 13:16
Statut de l'agent	Inconnu	Demander un inventaire	Inconnu
Créé le	2018-04-05 10:10	Dernière mise à jour le	2024-07-01 13:16





2 ■ Post Installation

[Bash](#) et [Platypus](#)

[Puppet](#)

C'est un Unix comme Linux

 **DEDIP**
Département d'électronique des Détecteurs et d'Informatique pour la Physique

Installation ou gestion d'une machine


BOUGAMONT Jeremy

Prise d'adresse IP du DPHP pour une (MACHINE HORS STANDARD)

Utilisateur (*) BOUGAMONT Machine DPHPMCF11 N°IP 132.166.35.11 Mac adresse (*) 48 : 65 : EE : 18 : 14 : E2

Observation
MacBook Air installé le 09/09/20 par J.Bougamont

Attention les champs marqués d'une * sont obligatoires.

 **DHCP Windows Extra** Version 2.0 Equipe Windows DRF-E

Rechercher la machine concernée (elle doit être dans la base de données)

Nom Ordinateur	Adresse IP	Adresse Mac
DPHPMCF11	132.166.35.11	4865EE1814E2

Observations : MacBook Air installé le 09/09/20 par J.Bougamont

Hosts

(os = Darwin or (model ~ Mac and model !~ Machine) or hostgroup ~ Darwin) Q Search Select Action Export Register Host Create Host

0 of 19 selected

<input type="checkbox"/>	Power	Name	Operating system	Puppet Environment	Model	Host group	Last report	Actions
<input type="checkbox"/>	🔌	✔ dphnmc70.extra.cea.fr	🔴 Darwin 21.6.0	production	MacBookPr...	macos/11-BigSur	1 minute ago	Edit
<input type="checkbox"/>	🔌	✔ dacmmcq139.extra.cea.fr	🔴 Darwin 21.6.0	production	MacBookAir...	macos/11-BigSur	1 minute ago	Clone
<input type="checkbox"/>	🔌	✔ sapmcw72.extra.cea.fr	🔴 Darwin 21.6.0	production	iMac16,2	macos/11-BigSur	4 minutes ago	Edit
<input type="checkbox"/>	🔌	✔ dphpmcf24.extra.cea.fr	🔴 Darwin 21.6.0	production	MacBookAir...	macos/11-BigSur	2 minutes ago	Edit
<input type="checkbox"/>	🔌	✔ dapmcw211.extra.cea.fr	🔴 Darwin 22.6.0	production	MacBookPr...	macos/11-BigSur	2 minutes ago	Edit
<input type="checkbox"/>	🔌	✔ dapmcw199.extra.cea.fr	🔴 Darwin 20.6.0	production	MacBookPr...	macos/11-BigSur	2 minutes ago	Edit
<input type="checkbox"/>	🔌	✔ sedimcaa19.extra.cea.fr	🔴 Darwin 16.7.0	production	MacBookPr...	macos	3 minutes ago	Edit
<input type="checkbox"/>	🔌	✔ dphpmcc177.extra.cea.fr	🔴 Darwin 23.0.0	production	MacBookPr...	macos/11-BigSur	3 minutes ago	Edit

❑ Script BASH spaghetti plus que lasagne, en évolution depuis plus de 15 ans

```
404 echo "${hostname} $ProductName"
405 sleep 10
406 [ -n "${hostname}" ] && ( \
407   ${SUDO} systemsetup -setcomputername "${hostname}" && \
408   ${SUDO} scutil --set ComputerName "${hostname}" && \
409   ${SUDO} scutil --set LocalHostName "${hostname}";
410   ${SUDO} scutil --set HostName "${hostname}" )
411
412 # chargement du profil Irfu Leger
413 "$CD" bubble --timeout 50 --title "PostInstall Mac" --text "Validez le profile Extra Irfu, puis refermer Preferences" &
414 cd "$PWDORIG"
415 open -W /System/Library/PreferencePanels/Profiles.prefPane Extra\ Irfu\ Leger.mobileconfig
416
417 # time server
418 ${SUDO} systemsetup -setusingnetworktime on
419 [ -f /usr/sbin/serveradmin ] && ${SUDO} serveradmin settings info:ntpServerName = "time.extra.cea.fr"
420 ${SUDO} systemsetup -setnetworktimeserver time.extra.cea.fr
421 [ -f /usr/sbin/ntpdate ] && ${SUDO} /usr/sbin/ntpdate time.extra.cea.fr
422 [ -f /usr/bin/sntp ] && ( ${SUDO} touch /var/db/ntp-kod; ${SUDO} chmod 666 /var/db/ntp-kod; ${SUDO} /usr/bin/sntp -sS time.extra.cea.fr )
423 ${SUDO} systemsetup -gettime
424 ${SUDO} systemsetup -settimezone Europe/Paris
425
426 enableRemoteLogin
427 enableScreenSharing
428 enableRemoteManagement
429
430 ## Chiffrement du disque avec FileVault
431 rv="$CD" yesno-msgbox --no-newline \
432   --text "Chiffrement du disque de ${hostname} avec FileVault" \
433   --informative-text "Le disque va etre chiffre avec FileVault" \
434   --timeout "30"
435 echo "Vous avez sélectionné le bouton : $rv"
```

❑ Déployé sous forme d'Application Mac grâce à Platypus

❑ CI/CD Gitlab (merci formation CC)

Filter pipelines

Status	Pipeline	Created by	Stages
✓ Passed ⌚ 00:00:29 📅 3 days ago	adaptation pour ajouter puppet à 'Full Disk Access' #2791 master 4c0cb214 latest		✓ ✓ ✓
✓ Passed ⌚ 00:00:21 📅 3 days ago	puppet 7 pour Sequoia (copie de la version Sonoma) #2790 master a2b639bc		✓ ✓ ✓
✓ Passed ⌚ 00:00:18 📅 5 days ago	prise en comote Seauoia #2772 lis-syst / MacOSX / PostInstall / Pipeline editor		✓ ✓ ✓

✓ Passed
⌚ 00:00:18
📅 5 days ago

Libérat
#2771

master ▾

✓ Pipeline #2791 Passed for 4c0cb214: adaptation pour ajouter puppet à 'Full Disk Access' ✓ ✓ ✓ [View](#)

✓ Pipeline syntax is correct. [Learn more](#)

[Edit](#) [Visualize](#) [Validate](#) **NEW** [Full configuration](#)

CI/CD Catalog Help


```
423 sudo systemset
424 sudo systemset
425
426 enableRemoteLogin
427 enableScreenShari
428 enableRemoteManag
429
430 ## Chiffrement du
431 rv="$CD" yesno-m
432 --text "Chif
433 --informative
434 --timeout "30
435 echo "Vous avez s
```

```
22
23 build-job:      # This job runs in the build stage, which runs first.
24   tags:
25     - monterey
26   stage: build
27   artifacts:
28     paths:
29       - artifacts
30   script:
31     - echo "Compiling the code..."
32     - echo "Compile complete."
33     - mkdir artifacts
34     - /usr/local/bin/platypus --name 'PostInstall Mac' --interface-type 'Progress Bar' --interpreter /bin/bash --app-icon Installer.icns --app-version 2.3 --author
    'Pierre-Francois.Honore@cea.fr' --bundled-file CEA_Profil_Eduroam.mobileconfig --bundled-file CEA_Profil_Eduroam-NG.mobileconfig --bundled-file Extra\ Irfu\ leger.
    mobileconfig --bundled-file FileVaultRecoveryKey.plist --bundled-file CocoaDialog.app --bundle-identifier 'cea.irfu.pfhonore.PostInstallMac' --quit-after-execution
    --optimize-nib --overwrite PostInstall\ General.sh artifacts/PostInstall\ Mac.app
35     - ls -la artifacts
36
```




Configuration par profil

Configuration de l'OS

A. Maintenant, j'ouvre Finder 

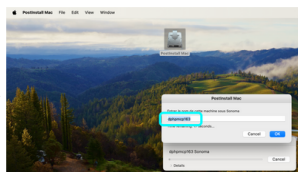
B. Je clique sur « Aller » puis « se connecter au serveur » (Cmd + K), j'entre l'adresse : `smb://adminism@essrvmc01.extra.cea.fr/Desktop` .

C. Je cherche le fichier : « PostInstall Mac » Je le copie sur le bureau puis je l'exécute.

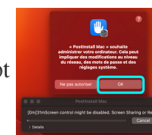
D. Pour les Mac récents, il faut d'abord accepter l'installation de Rosetta  puis relancer.

E. Le nom de la machine peut ne pas être renseigné, un popup avec le nom va apparaître lors de cette étapes, modifier le nom d

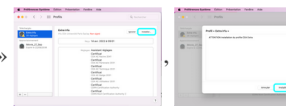
besoin



F. Je confirme le nom de la machine et j'accorde les accès demandés pendant l'exécution du script

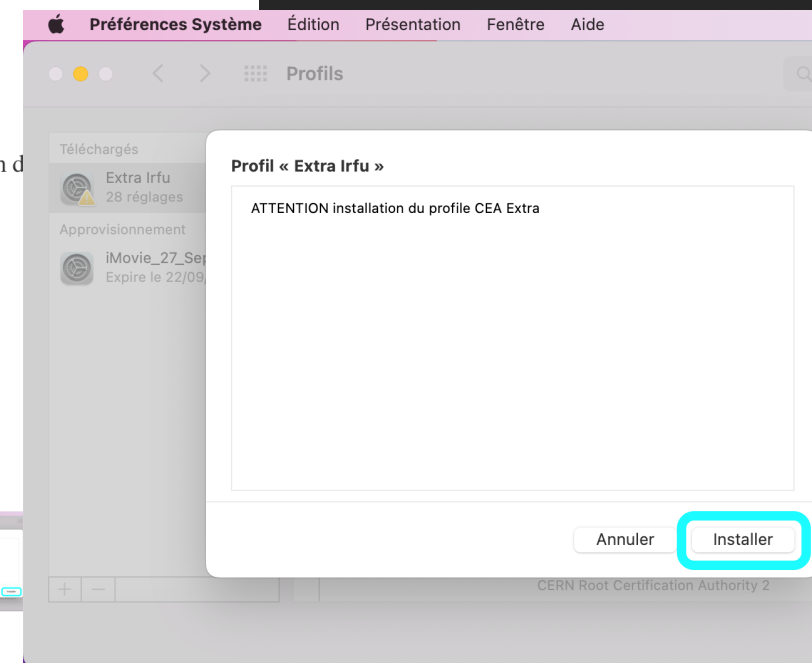


G. L'exécution s'interrompt pour ouvrir « Preferences System » : installer le profil « Extra Irfu »



H. Fermer « Preferences System » pour reprendre l'exécution du script.

I. Accepter le chiffrement du disque pour tous les Mac portables :  , autoriser le script à chiffrer  puis à enregistrer



Atomique

Paramètres système et applications verrouillés

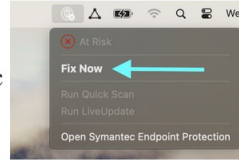
'enrollment' nécessaire pour māj

Configuration de l'OS

The screenshot shows the macOS System Preferences window with the 'Screensaver' pane selected. The window title is 'Extra lrfu leger noWiFi.mobilecon...'. The top navigation bar includes 'iOS', 'macOS', 'tvOS', and 'watchOS', along with a search bar and a help icon. The left sidebar lists various system preferences, with 'Screensaver' highlighted in blue. The main content area is titled 'Screensaver' and 'Screensaver settings' for 'macOS 10.11'. The settings include:

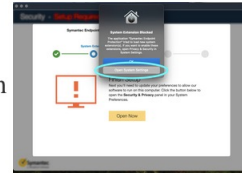
- Require password to unlock screen.** (checked) Required macOS 10.13 +
- Require password delay**
The number of seconds to delay before the password will be required to unlock or stop the screen saver (the grace period). A value of '2147483647' (for example, '0x7FFFFFFF') disables this requirement. To use this option, you must set 'askForPassword' to 'true'. Available in macOS 10.13 and later.
10
Required macOS 10.13 +
- Screensaver path**
The full path to the screen-saver module to use.
[Empty text field]
- LoginWindow Screensaver idle time**
The number of seconds of inactivity before the screen saver activates (0 = Never activate).
[Empty text field]
- Screensaver idle time**
Number of seconds of inactivity before screensaver activates. (0 = never activate).
1200

O. Configurer Symantec

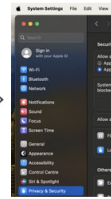


1. Se laisser guider sans tenir compte des notifications

2. Autoriser l'extension



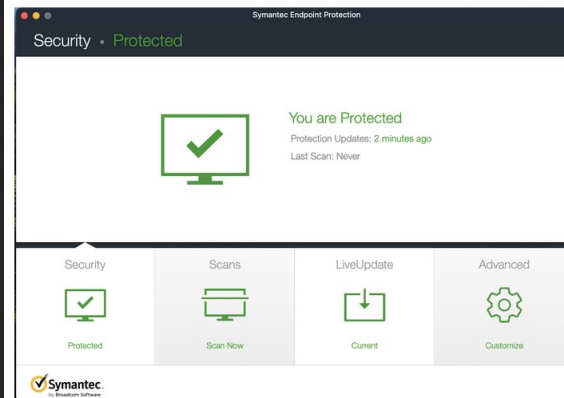
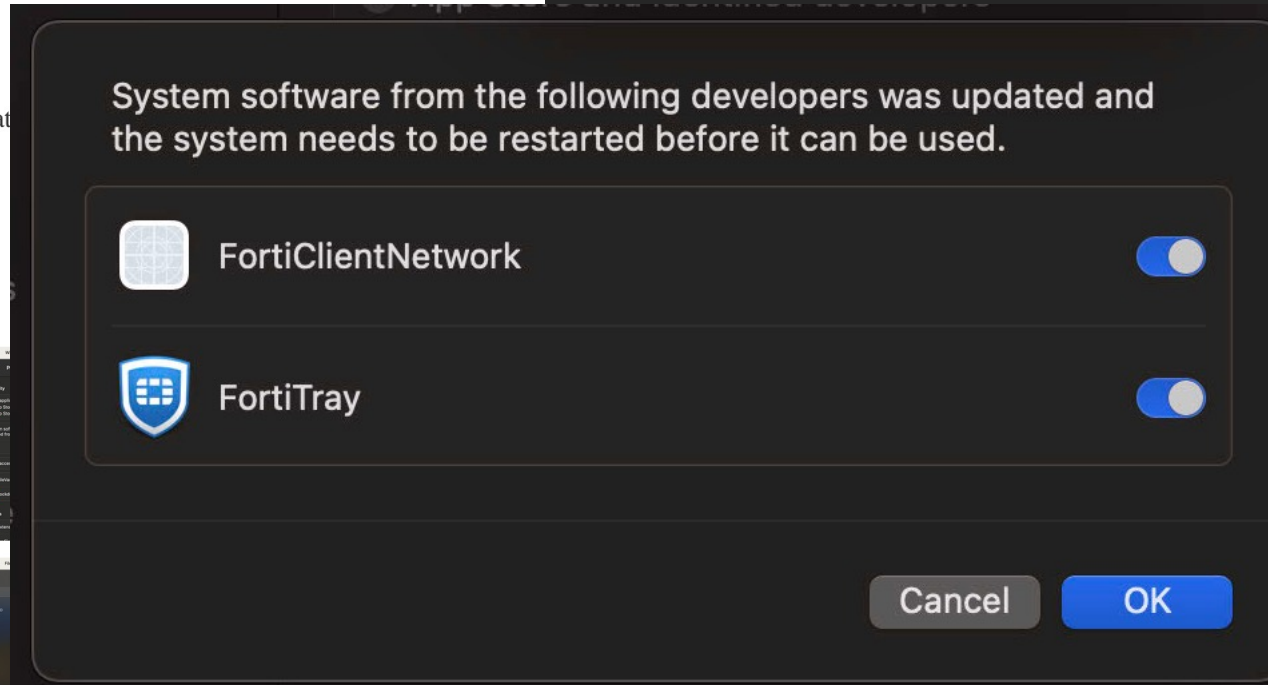
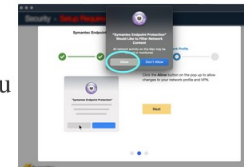
3. en ouvrant « Preferences Systeme »



4. puis autoriser l'accès complet au disque









5. Et pour finir, autoriser le filtrage du contenu réseau



< > Full Disk Access

Allow the applications below to access data like Mail, Messages, Safari, Home, Time Machine backups, and certain administrative settings for all users on this Mac.

-  managedsoftwareupdate
-  puppet_wrapper
-  ruby
-  sshd-keygen-wrapper
-  Symantec System Extension
-  Terminal

+ | -

Users was updated and can be used.





Cancel


OK


Full Disk Access


Allow the applications below to access data like Mail, Messages, Home, Time Machine backups, and certain administrative users on this Mac.

 managedsoftwareupdate

 puppet_wrapper

 ruby

 sshd-keygen-wrapper

 Symantec System Extension

 Terminal

+ -

Background Items Added
"XQuartz" added items that can run in the background. You can manage this in Login Items Settings.

Background Items Added
Software from "Broadcom Inc" added items that can run in the background. You can manage this in Login Items Settings.

Background Items Added
Software from "Joel Rennich" added items that can run in the background. You can manage this in Login Items Settings.

"FortiClientAgent" Notifications
Notifications may include alerts, sounds, and icon badges.

Background Items Added
Software from "Fortinet, Inc" added items that can run in the background. You can manage this in Login Items Settings.

Background Items Added
"launchapp" is an item that can run in the background. You can manage this in Login Items Settings.

Background Items Added
"launchapp" is an item that can run in the background. You can manage this in Login Items Settings.

Background Items Added
"supervisor" is an item that can run in the background. You can manage this in Login Items Settings.

Background Items Added
Software from "Mac Admins Open Source" added items that can run in the background. You can manage this in Login Items Settings.





InfoMachine Lecture Seul

Machine (IP ou Nom) : Rechercher **DPHPMCP175**

[Retour à la page d'administration](#)



Base IP - IRFU

IP : 132.166.41.175
Nom : DPHPMCP175
Adresse Mac : 00E04CEC5058
Utilisateur : -----



DHCP

Scope : 132.166.40.0



FOREMAN IRFU

[Consulter la base](#)

IP : 132.166.41.175
OS : Darwin 23.6.0
Adresse Mac : 00:e0:4c:ec:50:58
Modèle : Mac14,2
Dernier inventaire : 2024-09-12 16:18:44 UTC



Active Directory

OS : macOS Version 14.0
LDAP Path : CN=dphpmcp175,OU=Macintosh,OU=Pos
Créé le : 03/10/2023 15:32:47
Modifié le : 02/09/2024 13:32:46



DNS

dphpmcp175.extra.cea.fr



GLPI/FusionInventory IRFU

[Consulter la base GLPI](#)

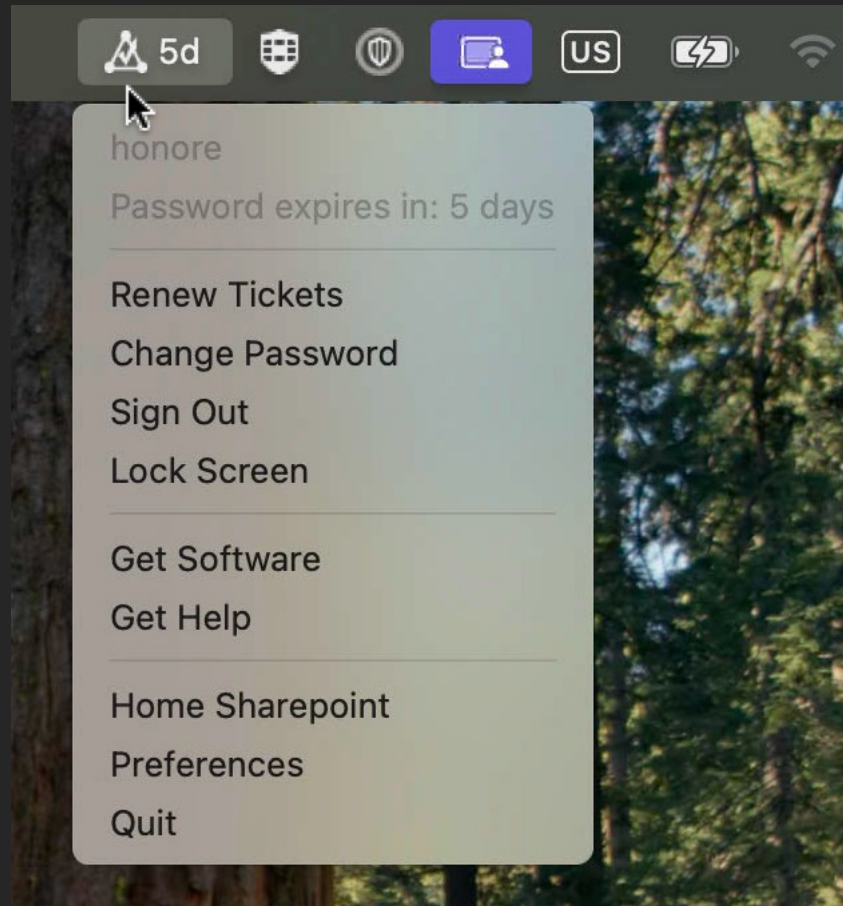
Dernier utilisateur :
N° de Série : G0XCPI-
OS : macOS
VersionOS : 14.6.1 (23G93)
Modèle : Mac14,2
Dernier inventaire : 2024-09-10 09:38:42



3 ■ Utilisateurs

Compte mobile lié à l'AD

C'est un Unix comme Linux



Macs et comptes liés à l'AD Extra

```
cf23:~ honore$  
cf23:~ honore$ id  
43852847(honore) gid=2048330233(EXTRA\Domain Users) groups=2048330233(EXTRA\Domain Users),12(everyone),20(staff),62(netaccounts),79(_appser
```

```
cf23:~ honore$  
cf23:~ honore$  
cf23:~ honore$
```

AD permet *compte mobile* mais UID basé sur 'objectGUID'

```
MAC_NUMUID=$(echo $(( $(echo "ibase=16; ${G[3]}${G[2]}${G[1]}${G[0]}" | bc) & 2147483647))
```



4. Munki

Centre de Gestion des Logiciels
Managed Software Center

Centre de Gestion des Logiciels



Rechercher

Logiciel

Catégories

Mes articles

Mises à jour



Installe

SUPPRIMER



INSTALLER



Google Chrome
Network - Google
Installé

SUPPRIMER



goupil 709/207
System - P-F Honoré
Installé

SUPPRIMER



HomeBrew
System - Tony Williams

INSTALLER



IDL
Science - HarrisGeospatial

INSTALLER



Malwarebytes
System - Malwarebytes
Installé

SUPPRIMER



Microsoft Excel
Office
Installé

SUPPRIMER



Microsoft Outlook
Office
Installé



Microsoft PowerPoint
Office
Installé

Côté serveur

- Les *packages* appartiennent à des *catalogs* qui sont activés dans les *manifests*
- Fichiers *plist* dans une arborescence */munki_repo*

The screenshot shows the MunkiAdmin - Packages application interface. The main window displays a list of packages with columns for Name, Display Name, Version, Catalogs, Size, and Modified. The package 'FortiClientEMS' is highlighted in blue. The right sidebar shows the Summary section with expandable sections for Pkginfo keys, Architectures, Blocking apps, Catalogs, Choices XML, Installs, Items to copy, Receipts, Requires, and Update for. The Pkginfo section is expanded, showing details for the selected package: Location (FortiClientEMS-7.2.1-3.plist), Created (19/06/2024 11:17), Modified (19/06/2024 11:48), and Last opened (19/06/2024 11:48). The Installer section is also expanded, showing details for the selected package: Location (FortiClient_7.2.1.dmg), Created (19/06/2024 10:57), Modified (19/06/2024 10:57), and Last opened (19/06/2024 11:46). A Properties... button is visible at the bottom right of the Pkginfo section.

Name	Display Name	Version	Catalogs	Size	Modified
FortiClient	VPN FortiClie...	5.6.6.755	Astro, lrfu, testing	26,2 MB	04/08/2023 0...
FortiClient	VPN FortiClie...	6.4.7.1405	Astro, lrfu, testing	207,1 MB	13/06/2024 0...
FortiClient	VPN FortiClie...	7.0.2	Astro, development, lrfu, t	236,1 MB	13/06/2024 0...
FortiClient	VPN FortiClie...	7.0.3-2	Astro, lrfu, testing	237,4 MB	13/06/2024 0...
FortiClient	VPN FortiClie...	7.0.7-1	Astro, lrfu, testing	247,9 MB	13/06/2024 0...
FortiClient721	VPN FortiClie...	7.2.1-2	lrfu	273,1 MB	19/06/2024 10...
FortiClientEMS	VPN FortiClie...	7.2.1-2	lrfu, testing	273,1 MB	19/06/2024 11...
FortiClientEMS	VPN FortiClie...	7.2.1-5	lrfu	275,9 MB	19/06/2024 11...
FusionInvent...	FusionInvent...	2.6	Astro, lrfu, testing	17,2 MB	04/08/2023 0...
GoogleChrome	Google Chro...	93.0.4577.82	lrfu, testing	195,4 MB	04/08/2023 0...
GoogleChrome	Google Chro...	108.0.5359.94	lrfu, testing	220,1 MB	04/08/2023 0...
homebrew	HomeBrew	3.3.12	Astro, lrfu, testing		04/08/2023 0...
idl	IDL	8.8.2	Astro, lrfu, testing	954,9 MB	04/08/2023 0...
igc-ca.mobil...	AC-CEA	1.0	Astro, lrfu, testing	28 KB	04/08/2023 0...
KeePassXC	KeePassXC	2.7.8	lrfu, testing	32,4 MB	17/06/2024 0...
LexmarkC790	pilote Lexmar...	2021.09.21	Astro, lrfu, testing	15,8 MB	04/08/2023 0...
MacTeXGhos...	MacTeX Gho...	10.00.0	lrfu, testing	52,4 MB	17/06/2024 0...
Malwarebytes	Malwarebytes	4.20.7.5022	lrfu, testing	41,2 MB	17/06/2024 0...
Malwarebytes	Malwarebytes	5.0.160.996	lrfu, testing	67,3 MB	17/06/2024 0...
Malwarebytes	Malwarebytes	5.2.3.1279	lrfu, testing	68,5 MB	17/06/2024 0...
Malwarebytes	Malwarebytes	5.3.1.1389	lrfu, testing	68,3 MB	17/06/2024 0...
Microsoft Ex...	Microsoft Ex...	16.53.210912...	lrfu, testing	889,3 MB	04/08/2023 0...
Microsoft Ex...	Microsoft Ex...	16.78.231028...	lrfu, testing	932,6 MB	17/06/2024 0...
Microsoft Ex...	Microsoft Ex...	16.82.240211...	lrfu, testing	937,8 MB	17/06/2024 0...
Microsoft Ex...	Microsoft Ex...	16.85.24051...	lrfu, testing	985,5 MB	17/06/2024 0...
Microsoft Ex...	Microsoft Ex...	16.86.24060...	lrfu, testing	986,3 MB	17/06/2024 0...
Microsoft Ou...	Microsoft Ou...	16.53.210912...	lrfu, testing	913,8 MB	04/08/2023 0...
Microsoft Ou...	Microsoft Ou...	16.78.231028...	lrfu, testing	959,5 MB	17/06/2024 0...
Microsoft Ou...	Microsoft Ou...	16.85.24051...	lrfu, testing	1,1 GB	17/06/2024 0...

Côté serveur

- Les *packages* appartiennent à des *catalogs* qui sont activés dans les *manifests*
- Fichiers *plist* dans une arborescence */munki_repo*

The screenshot shows the MunkiAdmin - Packages application. On the left, there is a sidebar with navigation options: Repository (All Packages, Recently Modified), Installer Types (Copy from Disk Image, Installer Package, No Package, Apple Update Metadata..., startosinstall, Configuration Profile, On Demand, Adobe Installer), and Categories (Uncategorized, Development, munkitools, Network, Office, Science, System, Text Editors, Utilities). The main area displays a table of packages:

Name	Display Name	Version
FortiClient	VPN FortiClie...	5.6.6.755
FortiClient	VPN FortiClie...	6.4.7.1405
FortiClient	VPN FortiClie...	7.0.2
FortiClient	VPN FortiClie...	7.0.3-2
FortiClient	VPN FortiClie...	7.0.7-1
FortiClient721	VPN FortiClie...	7.2.1-2
FortiClientEMS	VPN FortiClie...	7.2.1-2
FortiClientEMS	VPN FortiClie...	7.2.1-5
FusionInvent...	FusionInvent...	2.6
GoogleChrome	Google Chro...	93.0.4577.8
GoogleChrome	Google Chro...	108.0.5359.
homebrew	HomeBrew	3.3.12
idl	IDL	8.8.2
igc-ca.mobil...	AC-CEA	1.0
KeePassXC	KeePassXC	2.7.8
LexmarkC790	pilote Lexmar...	2021.09.21
MacTeXGhos...	MacTeX Gho...	10.00.0
Malwarebytes	Malwarebytes	4.20.7.5022
Malwarebytes	Malwarebytes	5.0.160.996
Malwarebytes	Malwarebytes	5.2.3.1279
Malwarebytes	Malwarebytes	5.3.1.1389
Microsoft Ex...	Microsoft Ex...	16.53.21091
Microsoft Ex...	Microsoft Ex...	16.78.23102
Microsoft Ex...	Microsoft Ex...	16.82.2402
Microsoft Ex...	Microsoft Ex...	16.85.2405
Microsoft Ex...	Microsoft Ex...	16.86.2406
Microsoft Ou...	Microsoft Ou...	16.53.21091
Microsoft Ou...	Microsoft Ou...	16.78.231028...
Microsoft Ou...	Microsoft Ou...	16.85.24051...

On the right, a terminal window shows the command `head -35 pkginfo/system/FortiClient/FortiClientEMS-7.2.1-3.plist` and its output, which is an XML plist file. The plist file contains metadata such as `created_by`, `creation_date`, `munki_version`, `os_version`, `autoremove`, `catalogs`, `category`, `description`, `developer`, `display_name`, `installcheck_script`, and `installed_size`.

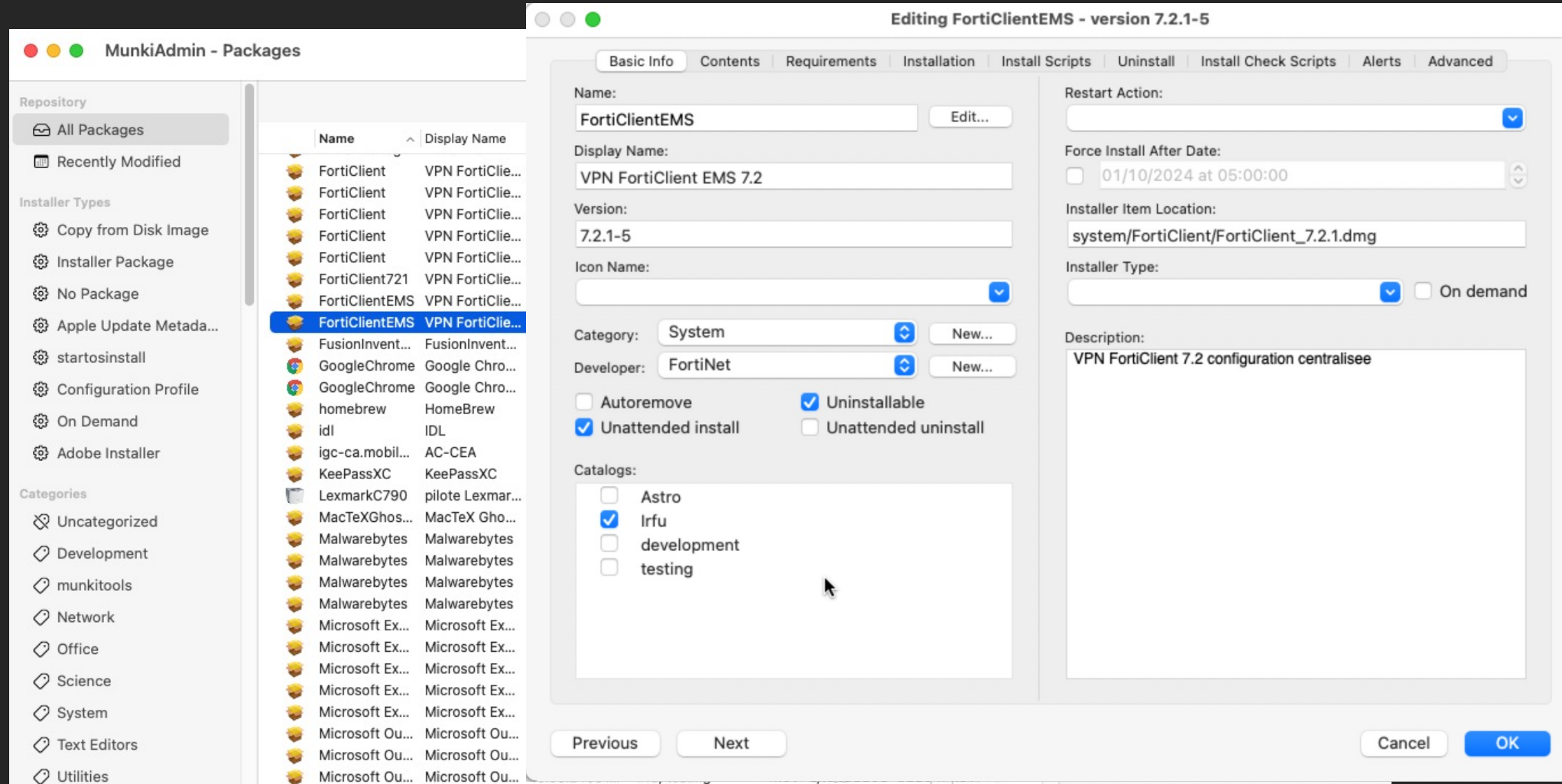
```
adminism@essrvmc01 munki_repo % head -35 pkginfo/system/FortiClient/FortiClientEMS-7.2.1-3.plist
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>_metadata</key>
  <dict>
    <key>created_by</key>
    <string>adminism</string>
    <key>creation_date</key>
    <date>2024-06-19T11:17:49Z</date>
    <key>munki_version</key>
    <string>6.5.1.4661</string>
    <key>os_version</key>
    <string>11.7.10</string>
  </dict>
  <key>autoremove</key>
  <false/>
  <key>catalogs</key>
  <array>
    <string>Irfu</string>
  </array>
  <key>category</key>
  <string>System</string>
  <key>description</key>
  <string>VPN FortiClient 7.2 configuration centralisee</string>
  <key>developer</key>
  <string>FortiNet</string>
  <key>display_name</key>
  <string>VPN FortiClient EMS 7.2</string>
  <key>installcheck_script</key>
  <string>#!/bin/bash
  <key>installed_size</key>
  <integer>392560</integer>
</dict>
adminism@essrvmc01 munki_repo %
```

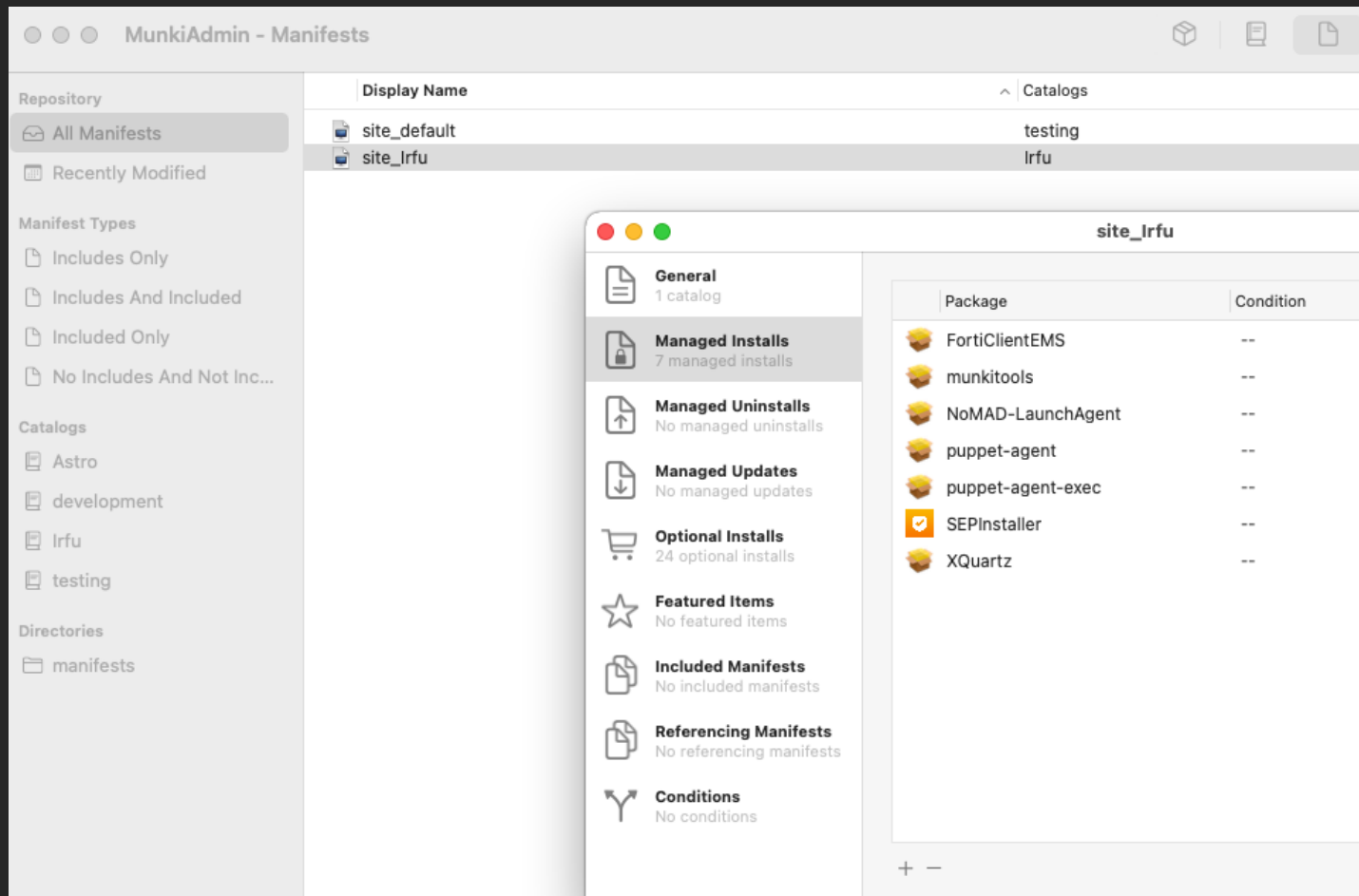
Below the terminal, a command is shown: `pkgutil --pkg-info com.fortinet.forticlient.epctl | grep -q 'version: 7.2.1.0718' && exit 1 || exit 0`. The output of this command is shown in a table:

Package Name	Size	Version
Irfu, testing	959,5 MB	17/06/2024 0...
Irfu, testing	1,1 GB	17/06/2024 0...

Côté serveur

- Les *packages* appartiennent à des *catalogs* qui sont activés dans les *manifests*
- Fichiers *plist* dans une arborescence */munki_repo*





Les *manifests* sont exposés par HTTPS depuis serveur qui a accès à *munki_repo*

Côté client

- En GUI ou CLI : `/usr/local/munki`

The screenshot shows the Munki GUI interface. On the left is a sidebar with navigation options: 'Logiciel', 'Catégories', 'Mes articles', and 'Mises à jour'. The main area is titled 'Mises à jour' and displays '11 mises à jour en attente'. A blue button labeled 'TOUT METTRE À JOUR' is visible. The updates are listed in a grid:

- Managed Software Center embedded python** (The Munki Project, Version 3.10.11.4623 • 128.4 MB) - Embedded Python tools used by Managed Software Center.
- Managed Software Center** (The Munki Project, Version 6.4.0.4628 • 28.0 MB) - Managed Software Center application.
- Managed Software Center** (The Munki Project, Version 6.4.0.4628 • 28.0 MB) - Managed Software Center application.
- Managed Software Center** (The Munki Project, Version 6.4.0.4628 • 28.0 MB) - Managed Software Center application.
- NoMAD** (Version 1.2.2 • 15.5 MB) - NoMAD.
- Managed Software Center core tools** (The Munki Project, Version 6.4.2.4634 • 1.2 MB) - Core command-line tools used by Managed Software Center.
- Managed Software Center core tools** (The Munki Project, Version 6.4.2.4634 • 1.2 MB) - Core command-line tools used by Managed Software Center.
- Managed Software Center admin tools** (The Munki Project, Version 6.4.2.4634 • 111.0 KB) - Command-line Managed Software Center admin tools.
- NoMAD-LaunchAgent** (Jamf, Version 1 • 17.0 KB) - NoMAD-LaunchAgent.

```
Starting...
Checking for available updates...
Retrieving list of software for this machine...
0..20..40..60..80..100
Preventing idle sleep
Retrieving catalog "testing"...
0..20..40..60..80..100
Downloading munkitools_python-3.10.11.4623.pkg...
0..20..40..60..80..100
Verifying package integrity...
Downloading munkitools_admin-6.4.2.4634_1.pkg...
0..20..40..60..80..100
Verifying package integrity...
Downloading munkitools_core-6.4.2.4634.pkg...
0..20..40..60..80..100
Verifying package integrity...
Downloading munkitools_app-6.4.0.4628_1.pkg...
0..20..40..60..80..100
Verifying package integrity...
Downloading NoMAD-1.2.2.pkg...
0..20..40..60..80..100
Verifying package integrity...
Downloading NoMAD-LaunchAgent-1.pkg...
0..20..40..60..80..100
Verifying package integrity...
Info: Using environment 'production'
Info: Retrieving pluginfacts
Info: Retrieving plugin
Info: Loading facts
Info: Caching catalog for sapmcj224.extra.cea.fr
Info: Applying configuration version '1719905194'
Notice: Applied catalog in 0.12 seconds
WARNING: Rejected item SEPInstaller, version 14.3.8000.10124.10129 with minimum os version required 12.1. Our OS version is 10.15.7.
WARNING: Could not process item SEPInstaller for install. No pkginfo found in catalogs: testing
WARNING: Could not process item Command Line Tools for optional install. No pkginfo found in catalogs: testing
WARNING: Could not process item FortiClient721 for optional install. No pkginfo found in catalogs: testing
WARNING: Could not process item Onyx for optional install. No pkginfo found in catalogs: testing
WARNING: Could not process item Xcode for optional install. No pkginfo found in catalogs: testing
Downloading GoogleChrome-108.0.5359.94.pkg...
0..20..40..60..80..100
Verifying package integrity...
Getting list of available icons...
0..20..40..60..80..100
Getting icon AddPrinter-saplexcolp2_b709p107.png for irfulpy90 141/100...
0..20..40..60..80..100
Getting icon Microsoft Word 2019_1.png for Microsoft Word...
0..20..40..60..80..100
Getting icon Microsoft Remote Desktop.png for Microsoft Remote Desktop...
0..20..40..60..80..100
Getting icon Platypus.png for Platypus...
0..20..40..60..80..100
Getting icon Thunderbird.png for talkspirit...
0..20..40..60..80..100
Getting icon NoMAD.png for NoMAD...
0..20..40..60..80..100
Getting client resources...
Getting client resources...
Allowing idle sleep

The following items will be installed or upgraded:
+ munkitools_python-3.10.11.4623
  Embedded Python tools used by Managed Software Center.
+ munkitools_admin-6.4.2.4634
  Command-line Managed Software Center admin tools.
+ munkitools_core-6.4.2.4634
  Core command-line tools used by Managed Software Center.
+ munkitools-6.4.0.4628
  Managed Software Center application.
+ munkitools-6.4.0.4628
  Managed Software Center application.
+ munkitools_core-6.4.2.4634
  Core command-line tools used by Managed Software Center.
+ munkitools-6.4.0.4628
  Managed Software Center application.
+ munkitools-6.4.0.4628
  Managed Software Center application.
+ NoMAD-1.2.2
+ NoMAD-LaunchAgent-1
+ GoogleChrome-108.0.5359.94
  Chrome is a fast, simple, and secure web browser, built for the modern web.

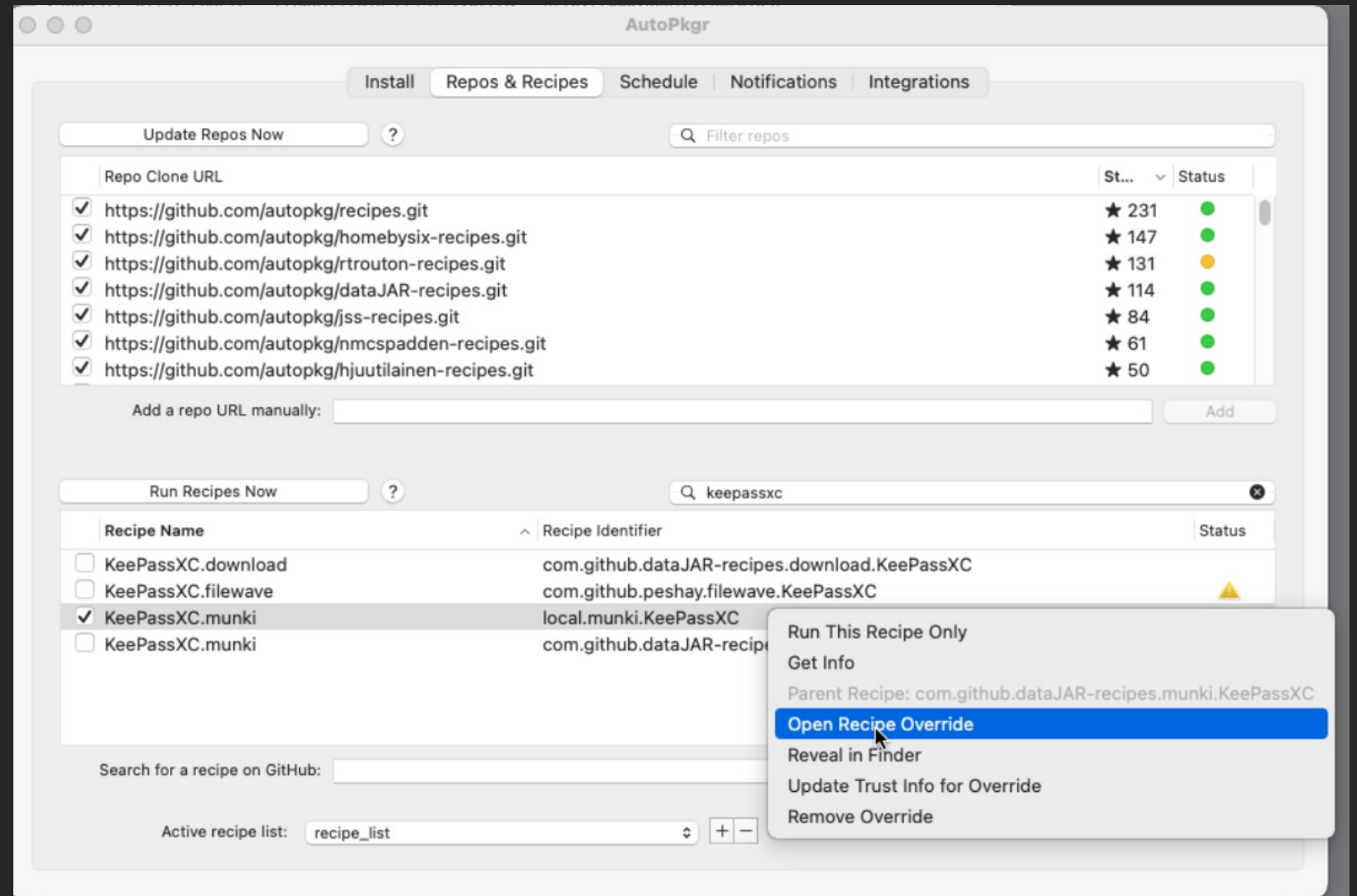
Run managedsoftwareupdate --installonly to install the downloaded updates.
Finishing...
Done.
sapmcj224@-admin$
```

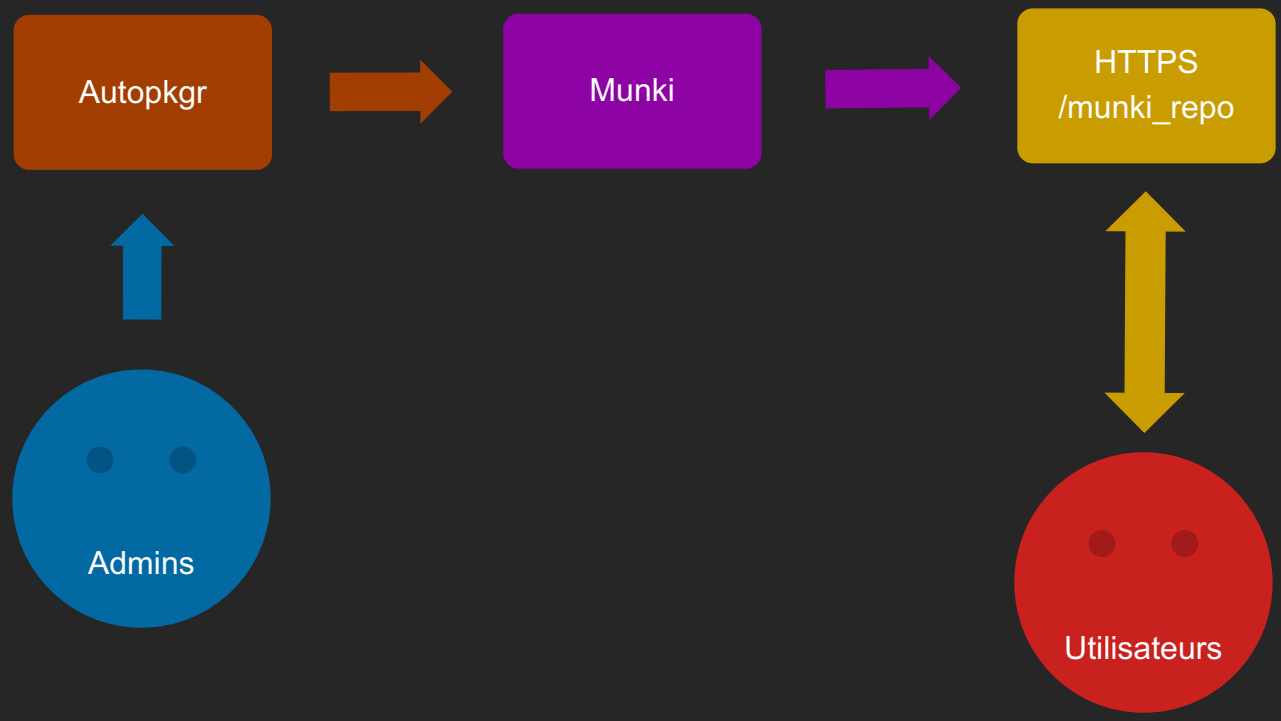


5. Autopkg Autopkgr

- Autopkg automatise la gestion de /Applications
- dépôts de recettes de cuisine

- Processus
- Imbriqués
- Personnalisable





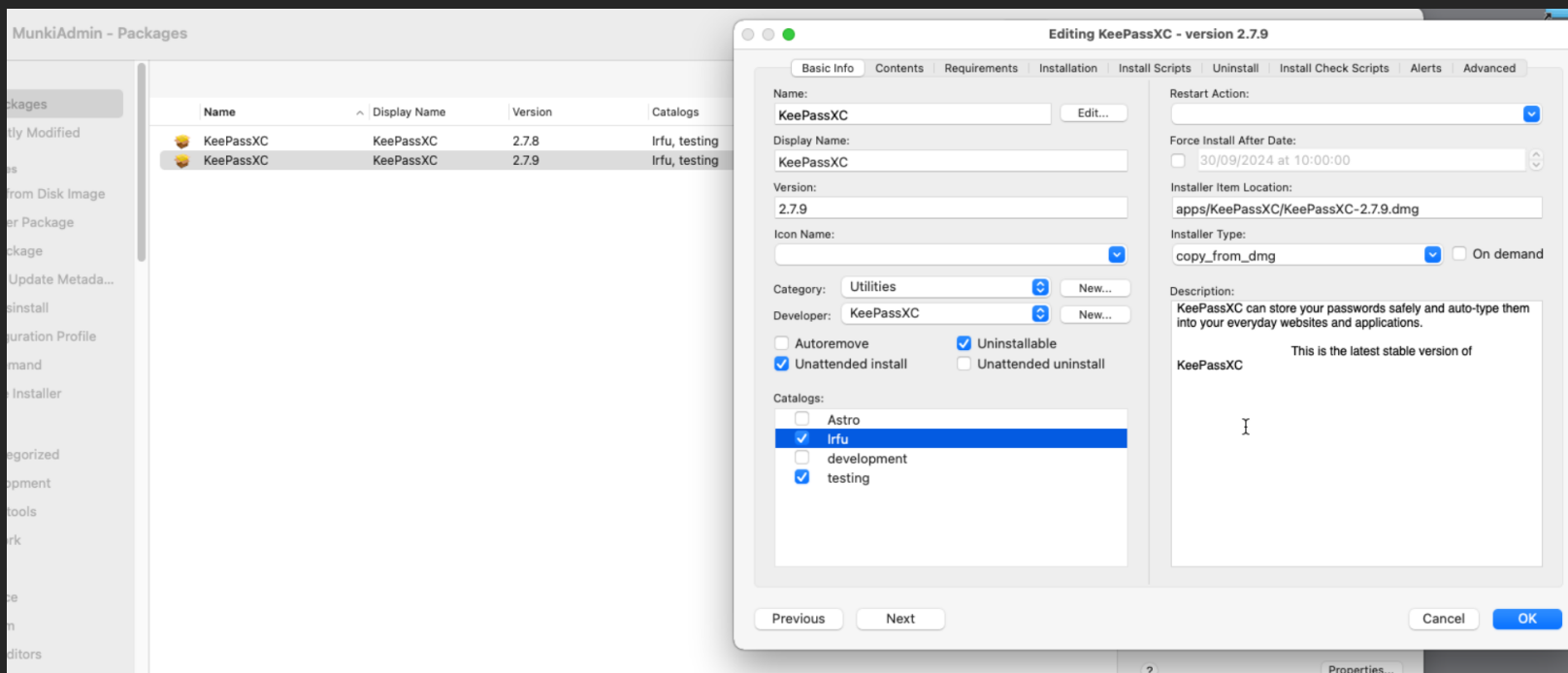
- permet de s'adapter à l'organisation souhaitée de Munki



```
KeepassXC.munki.recipe
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
  <key>Identifier</key>
  <string>local.munki.KeepassXC</string>
  <key>Input</key>
  <dict>
    <key>MUNKI_CATEGORY</key>
    <string>Utilities</string>
    <key>MUNKI_REPO_SUBDIR</key>
    <string>apps/KeepassXC</string>
    <key>NAME</key>
    <string>KeepassXC</string>
    <key>PRERELEASE</key>
    <string></string>
    <key>pkginfo</key>
    <dict>
      <key>catalogs</key>
      <array>
        <string>testing</string>
      </array>
      <key>category</key>
      <string>%MUNKI_CATEGORY%</string>
      <key>description</key>
      <string>KeepassXC can store your passwords safely and auto-type them into your every

          This is the latest stable version of KeepassXC</string>
      <key>developer</key>
      <string>%NAME%</string>
      <key>display_name</key>
      <string>%NAME%</string>
      <key>name</key>
      <string>%NAME%</string>
      <key>unattended_install</key>
      <true/>
    </dict>
  </dict>
</dict>
<key>ParentRecipe</key>
<string>com.github.dataJAR-recipes.munki.KeepassXC</string>
<key>ParentRecipeTrustInfo</key>
```

Nouvelle version => nouvelle entrée
d'abord taguées 'testing' puis 'Irfu'



Attention aux logiciels propriétaires : une nouvelle licence
peut être nécessaire (☹ Office en début d'année)

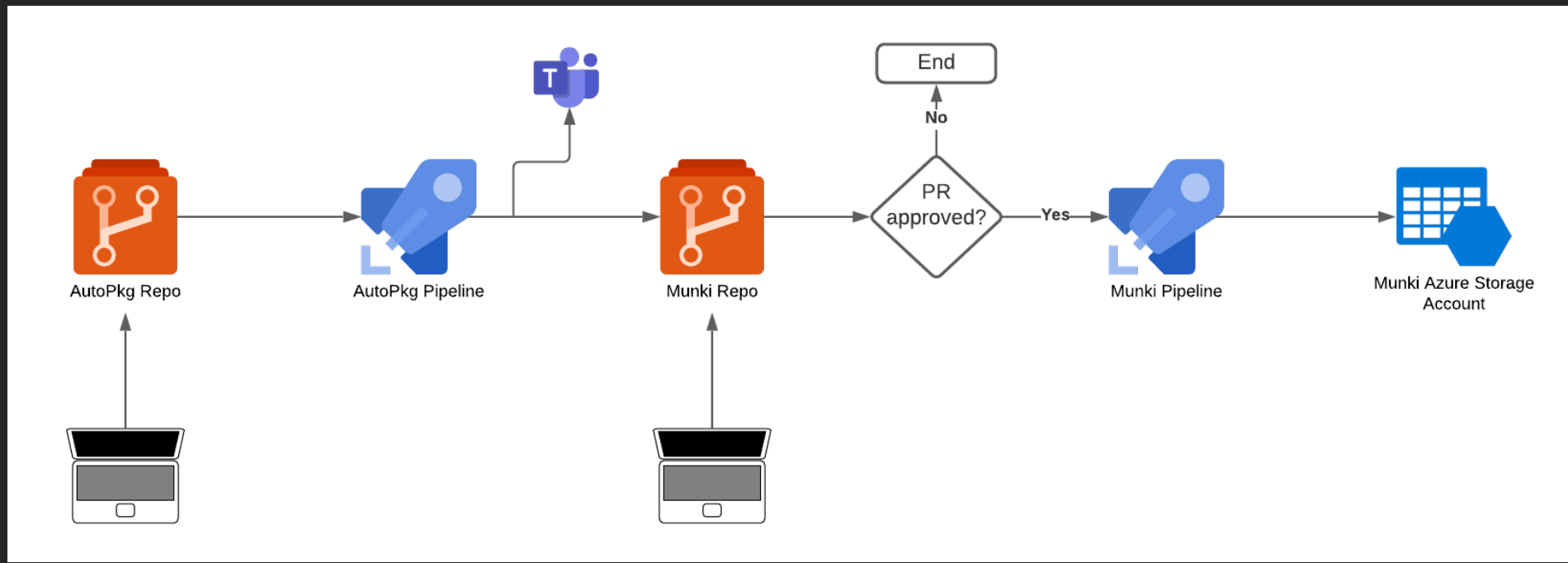


5. Évolutions

CI/CD avancée

Enrollment + Jamf

- Automate app packaging, updating and distribution with Azure DevOps, AutoPkg and Munki



- DSI a déployé un serveur Jamf
- Tout matériel Apple acheté auprès de Econocom avec une facture CEA est enrôlé
- À l'initialisation, le Mac est dirigé vers le Jamf CEA

