FOG PROJECT

FOG (*Free Open-Source Ghost*) est une solution libre et open-source de **déploiement d'images systèmes** sur un réseau. Il permet de capturer et de restaurer des images de PC à distance, sans avoir besoin de supports physiques comme des clés USB ou des DVD.

Installation de FOG

On commence par installer git avec la commande suivante :

apt-get -y install git

Ensuite, on passe en superuser pour éviter les restrictions :

sudo -i

On se place dans le répertoire /root :

cd /root

Puis on récupère les fichiers de FOG depuis le dépôt officiel avec git :

git clone https://github.com/FOGProject/fogproject.git

Une fois le téléchargement terminé, on accède au dossier d'installation :

cd /root/fogproject/bin

Enfin, on lance l'installation de FOG avec :

./installfog.sh

.:####### .:;####:;#;
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, <i>H H H</i>
······································
:####:####.::## #
$H = \dots + H + \dots + H + \dots + H + \dots + H + \dots$
<i>#</i>
Credits: http://fogproject.org/Credits
nttp://tugproject.org/creats Released under RU Version 3
Version: 1.5.10.1634 Installer/Updater
What version of Linux would you like to run the installation for?
1) Redhat Based Linux (Redhat, Alma, Rocky, CentOS, Mageia)
2) Debian Based Linux (Debian, Ubuntu, Kubuntu, Edubuntu)
3) Arch Linux
Choice: [2]
Starting Debian based Installation
FOG Server installation modes:
* Normal Server: (Choice N)
This is the typical installation type and will install a for any one this
machine. Pick this option if you are unsure what to pick.
* storage Node: (choice s) This install mode will only install the software required
to make this server act as a node in a storage group
Non-information.
Mure Information: http://www.fogorpiect.org/wiki/index.php?title=InstallationModes
What tupe of installation would you like to do? IN/s (Normal/Storage) N
We found the following interfaces on your system: * ens3 -
Would you like to change the default network interface from ens32
If you are not sure, select No. [y/N] N
Have the second a second address for the AMAD seconds (1/2) a
Would gou like to setup a router address for the unic server; (Yrn) n
Would you like DHCP to handle DNS? [Y/n] n
Would you like to use the FOG server for DHCP service? (y/N) n
This version of EOG has internationalization support, would
you like to install the additional language packs? [y/N] y
leing approximited connections is state of the ant on the web and we
encly and got to enable this for your FOG server. But using HTTPS
has some implications within FOG, PXE and fog-client and you want
to read https://wiki.togproject.org/HITPS before you decide! Muld you like to coshie server HITPS on your FOC server? [u/M]
ndata god tike ta enavte secore nini s on godi noa serveri (gyny

####################################
<pre>* Here are the settings FOG will use: * Base Linux: Debian * Detected Linux Distribution: Debian GNU/Linux * Interface: ens3 * Server IP Address: * Server Subnet Mask: 255.255.255.0 * Hostname: * Installation Type: Normal Server * Installation Type: Normal Server * Internationalization: Yes * Image Storage Location: /images * Using FOG DHCP: No * DHCP will NOT be setup but you must setup your current DHCP server to use FOG for PXE services.</pre>
* On a Linux DHCP server you must set: next-server and filename
* On a Windows DHCP server you must set options 066 and 067 * Option 066/next-server is the IP of the FOG Server: (e.g.) * Option 067/filename is the bootfile: (e.g. undionly.kkpxe or snponly.efi) * Send OS Name, OS Version, and FOG Version: Yes
* Are you sure you wish to continue (Y/N) y
<pre>* Installation started * Testing internet connectionDone * Adjusting repository (can take a long time for cleanup)OK * Adjusting repository (can take a long time for cleanup)OK * Preparing Package ManagerOK * Packages to be installed:</pre>
<pre>* Installing package: apache2</pre>

Checking package: tftp-hpaOK	
Checking package: unzipOK	
Checking package: vsftpd	
<pre>Checking package: wgetOK</pre>	
<pre>Checking package: zlib1gOK</pre>	
Configuring services	
Setting up fagoroject user	
Locking fogproject as a system account	
Setting up fogproject passwordOK	
<pre>Stopping FOGMulticastManager.service ServiceOK</pre>	
Stopping FOGImageReplicator.service ServiceOK	
stopping FOGSnapinReplicator.service ServiceOK	
Stopping FOGScheduler.service ServiceOK	
<pre>Stopping FOGPingHosts.service ServiceOK</pre>	
Stopping FOGSnapinHash.service ServiceOK	
Stopping FUGimageSize.service Service	
Setting up and starting Mysul.	
Setting up wood coer and database	
Concerning of user reports	
Setting up deathe and PHP files	
Testing and removing sumbolic links if found.	
Backing up old data	
copying new files to web folder	
Creating the language binariesDone	
Creating config fileOK	
Creating redirection index fileOK	
Downloading kernel, init and fog-client binariesDone	
copying binaries to destination pathsOK	
Enabling apache and fpm services on bootOK	
creating SSL CAOK	
Creating SSL Private Key	
Creating SSL Dertificate	
Breating auth publicer and cert	
Resetting Sol Fermilssiumister (no.551) DV	
Starting up mound various into the objection of the services OK	
Charging permissions on anache log files	
Backing up database.	
 You still need to install/update your database schema. 	
This can be done by opening a web browser and going to:	
http:// fog/management	
Press [Fotos] has detabase to undeted/localled	
rness [chres] key when database is updated/installed	

Il y a une étape à faire manuellement pendant l'installation. L'installateur va préparer la base de données, mais il faudra aller dans l'interface web de FOG pour finaliser la création du schéma initial ou mettre à jour un schéma existant. On ouvre donc un navigateur, on accède à l'interface web de FOG et on suit les instructions. Une fois que c'est fait, on peut revenir à l'installateur et appuyer sur **Entrée** pour poursuivre. Attention, si on saute cette étape, l'installation échouera.

Install/Update
If you would like to backup your FOG database you can do so using MySQL Administrator or by running the following command in a terminal window (Applications->System Tools->Terminal), this will save the backup in your home directory. mysqldwapallow-keywords -x -v fog > fogbackup.sql
Your FOG database schema is not up to date, either because you have updated or this is a new FOG installation. If this is an upgrade, there will be a database backup stored on your FOG server defaulting under the folder /homefogDBbackups. Should anything go wrong, this backup verable you to return to the previous install if needed. Are you sure you wish to install or update the FOG database?
Install/Update Now



dits FOG Client Donate to FO

On peut maintenant retourner sur notre installation de FOG et appuyer sur ENTER.

340	Enabling FOGSnapinReplicator.service ServiceOK	
ж	Setting permissions on FOGScheduler.service scriptOK	
*	Enabling FOGScheduler.service ServiceOK	
145	Setting permissions on FOGPingHosts.service scriptOK	
*	Enabling FOGPingHosts.service ServiceOK	
*	Setting permissions on FOGSnapinHash.service scriptOK	
*	Enabling FOGSnapinHash.service Service	
145	Setting permissions on FOGImageSize.service scriptOK	
*	Enabling FOGImageSize.service ServiceOK	
140	Setting up FOG ServicesOK	
*	Starting FOGMulticastManager.service ServiceOK	
245	Starting FOGImageReplicator.service ServiceOK	
*	Starting FOGSnapinReplicator.service ServiceOK	
345	Starting FOGScheduler.service ServiceOK	
*	Starting FOGPingHosts.service ServiceOK	
140	Starting FOGSnapinHash.service ServiceOK	
*	Starting FOGImageSize.service ServiceOK	
140	Setting up NFS configuration fileOK	
*	Setting up exports fileOK	
140	Setting up and starting RPCBindOK	
*	Setting up and starting NFS ServerOK	
340	Linking FOG Logs to Linux LogsOK	
*	Linking FOG Service config /etcOK	
э¢с	Ensuring node username and passwords matchDone	
*	Setting up FOG External ReportingDone	
*	Setup complete	
	You can now login to the FOG Management Portal using the information listed below. The login information is only if this is the first install.	
	This can be done by opening a web browser and going to:	
	http:// /fog/management	
	Default User Information Username: fog Password: password	
*	Changed configurations:	
	The FOG installer changed configuration files and created the following backup files from your original files: * /etc/vsftpd.conf <=> /etc/vsftpd.conf.1739286936 * /etc/exports <=> /etc/exports.1739286936	
-01	atBANTARES: "/fogoroject/bin#	

On va retourner sur le site et se connecter avec l'utilisateur par défaut : fog / password

FOG Project	8 8 7 4 9 8 9	⊖≪≣∎⊁ ભ
	Tableau de bord	
Présentation du système Internations sur le serveur en un coup d'ast.	Activité du groupe de stockage Activité acuete des groupes sélectionels	Utilisation du disque du nœud de stockage Utilisation du disque du nœud sélectionel
Identifiant Top		
Charpe movenne 0.37, 0.45, 0.23	1 Feet 10	
Temps de fondionnement Up 0 jours 1 heure 7 mins du système	160% Convet 0 Active: 0 default -	Free 82.81 GB 50% Enail: 4.15 GB CertautMember * (1.5.10 1634) □
	Cionage des 30 derniers jours	
l o o o o o o o o o o o o o o o o o o o	21 Jan 24 Jan 27 Jan 16 Fe	0 10 Feb 10 Feb 10 Feb 11
Bande passante Bande passante - Transmission Reception	Temps - 2 minutes 20 minutes 10 minutes 20 minutes 10 minutes	
	Crédits Client FOG Donner au projet FOG	Version 1.5.10.1634

Renseigner notre serveur dans l'AD

Il faut maintenant renseigner notre serveur dans notre AD.

On va se rendre dans notre DHCP et dans notre étendue correspondante puis on va faire clic droit sur *Scope Options* et on va sélectionner *Configure Options*... :



On va descendre jusqu'à l'option 066 et 067 qu'on va configurer.

- 066 : IP de notre serveur FOG
- 067 : Dépend du firmware utilisé par les pcs qu'on veut déployer
 - BIOS : undionly.kpxe
 - o UEFI: ipxe.efi

Scope Options	? ×	Scope Options	?	×
General Advanced		General Advanced		
Available Options 065 Serveurs NIS+ 066 Nom d'hôte du serveur de démarrage 067 Nom du fichier de démarrage 068 Agents locaux IP mobiles Data entry String value:	Description Liste des a Nom d'hôt Nom du fic Agents loc	Available Options Available Options 065 Serveurs NIS+ 066 Nom d'hôte du serveur de démarrage 067 Nom du fichier de démarrage 068 Agents locaux IP mobiles Data entry String value: ipxe.efi	Descriptior Liste des a Nom d'hôtı Nom du fic Agents loc	1
OK Annu	ler Appliquer	OK Annu	ler Appliq	uer

On va faire Appliquer et notre serveur de déploiement est bien renseigné dans notre DHCP.

Gestion des utilisateurs

On va changer le mot de passe du compte fog de base en se rendant dans la gestion des utilisateurs.

FOG Project		8 🖉 두	1 .	〕⊖ ≪ ≡ ∎ ≁	
		Dashboar	d		
	System Overview Sener internation at a glance.	Storage Group Betechel groupe's car	Activity rent activity	Storage Node D Beechd notr's (lisk Usage exkusage
Usemane Web Server	fog				
Load Average System Uptime	0.54, 0.44, 0.21 Up: 0 days 0 hrs 8 mins	10% State	Eron 10 Gammad, 0 Active: 0	Ars [Enfaultilember 1 (1 5 10 1638) +]	Free: 87.06 Gdb Used: 4.11 Gdb
		Imaging Over the la	est 30 days		
a a Jan 'd	an an an an an an an	27 Jan 30 Pel-12	Pet 8	Pel H Pel H Pel H	14 Pills 17
Bandwidth Bandwidth - Transmit	Transmit Receive	Time - 2 Minutes	2 Minutes 10 Minutes 20 Minutes 1 H	tour .	
1.01.00ve	internitritoriadorna	Credits FOS Client Donate In F	00		Version 1.5-10 1629

On va cliquer sur *List All Users*

FOG Project Search Q			6 26	<u>.</u>	Ţ	đ.			ඵ	₽	Q 0		È	af C		•
				User Ma	inageme	nt										
Main Menu								All User	S							
List All Users	API? \$	Username \$	Friendly Name	•											٥	
Create New User	Searc	Search	Search													
Export Users	Yes	fog														
Import Users																
							De	lete Sele	ected							
			Delete sel	ected users							Dei	ete				

Puis on va se rendre dans *Change password* pour changer le mot de passe du compte par défaut.

FOG Project Search Q	Ð	e 😤 🖵				ආ	₽	00	100	Ê	se.	(•
	ι	Jser Management I	Edit: fog										
Infor General Change password API Settings Delete													
Main Menu				User Cl	hange Pa	assword							
List All Users	User Password	4	ь									ଟ	
Create New User	User Password (confirm)	4	ь										
Import Users	Update Password?							Updat	e				



Installer un plugin

Pour activer les plugins sur FOG, voici les étapes à suivre :

- 1. Se connecter à l'interface web de FOG
- 2. Aller dans FOG Configuration
- 3. Se rendre dans FOG Settings
- 4. Descendre jusqu'à la section Plugin System
- 5. Cocher l'option FOG_PLUGINSYS_ENABLED
- 6. Cliquer sur "Save Changes" pour enregistrer la modification

Puis avec un reload de la page on a accès à un nouvel onglet :

FOG Project		ഷ്	**	₽ "≞		ା	· 4	₽	¢°	100	È	pe.	٠	•
			Pl	ugin Manager	nent									
Main Menu						Activate	Plugins							
Home Activite Plunion	Plugin Name 🗘	Description								¢	Locati	on		\$
Activate Plugins	Search	Search									Search	h		
Installed Plugins	accesscontrol	The access control ca	n restrict using		/lib/plu	igins/acce	sscontrol/							
	capone	Capone is a automatic	on plugin for fo	g.							/lib/plu			
	example	Just an example plugi	n for those who	o want to create t	neir own plugin:	ŝ.					/lib/plu			
	1 3 fileintegrity	Associates the files or	nodes and st	ores their respect	ve checksums,	mod dates, a	nd the location	n of the file	on that part	ticular node	/lib/plu	ugins/fileint	tegrity/	
	Moststatus	Host Status is a plugir OS, of the client. Possible status: Wind Dependencies: port Tr Version 1.5.5.	n that adds a n ows, Linux, FC CP 445 open ir	ew entry in the He S and Unknown. In the client side.	ist edit Page th	at detects the	status on the	fly, poweror	n or powerc	off and the	/lib/plu	igins/hosts	status/	
	(Continue)	Location is a plugin th image. This is especia	at allows your ally useful if you	FOG Server to op I have multiple si	erate in an env es with clients	ironment whe moving back a	re there may t and forth betw	e multiple ; een differen	places to ge it sites.	et your	/lib/plu	ugins/locat	ion/	
		Enable persistent grou	ups.								/lib/plu	ıgins/persi	stentgroups/	

Pour installer des plugins, il faut cliquer sur le plugin quand on est dans la page Home ou *Activate Plugins* puis aller dans *Install Plugins* et cliquer sur Install :

FOG Project			æ	-	Ļ	"			a,	ඵ	₽	Q o	100	È	æ	٥		€
					Plugin M	anagem	ent											
Main Menu								In	stall Plug	jins								
Home Artivate Bunios		Plugin Name	Description										¢	Loci	ation			\$
Install Plugins		Search	Search											Sea	rch			
Installed Plugins		accesscontrol	The access contro	ol can restr	ict using diffi	erent roles	and rules.	Version 1.	5.5					/lib/j	plugins/acc	esscontrol/		
								Plugir	n access	control								
	Plug	in Description				The	access con	trol can re	strict using	different ro	oles and ru	les. Version	1 1.5.5					
	Plug	in Installation				This	plugin is no	ot installed	would you	I like to ins	tall it now?							
	Inst	all Plugin										Install						
								De	lete Sele	cted								
			D	elete selec	cted plugins							Dele	le					
			Credits	FOG Cli	ient Don	ate to FOG			tialisele të të të		eniereinein	in eksektertés					Versio	n 1.5.10.1639

Aspirer une image

Pour aspirer une image on va dans un premier temps créer où sera stocker cette image.

On va se rendre dans l'onglet Images et on va cliquer sur Create Image.

On va remplir les champs et cliquer sur Add :

	Image Man	agement
Main Menu		New Image
List All Images	Image Name	Windows10-Test
Create New Image Export Images	Image Description	
Import Images	Storage Group	default - (1) v
Multicast Image	Operating System	Windows 10 - (9) v
	Image Path	/images/ Windows10-Test
	Image Type 🚯	Single Disk - Resizable - (1) v
	Partition	Everything - (1)
	Image Enabled	
	Replicate?	
	Compression	6
	Image Manager	Partclone Zstd v
	Create Image	Add

On peut maintenant tester l'aspiration de l'image sur fog.

En changeant le boot order pour booter sur le réseau en PXE, on va tomber sur l'écran de fog project :

Host is NOT registered!	
Boot from hard disk (2)
Run Memtest86+	
Perform Full Host Registration and Inventory	
Quick Registration and Inventory	
Deploy Image	
Join Multicast Session	
Client System Information (Compatibility)	



Une fois sur cet écran, on va choisir *Perform Full Host Registration and Inventory* pour aspirer l'image de notre ordinateur et on va remplir les champs demandés en faisant bien attention à répondre N lorsqu'on nous pose la question « Would you like to deploy an image to this computer now ? ».

On aura ça qui s'affiche dans l'onglet Hosts

7		e	quasar	No Data	AL <x< th=""><th>Windows10-Test</th></x<>	Windows10-Test
---	--	---	--------	---------	---	----------------

On va cliquer sur notre host qu'on veut capturer et on va aller dans l'onglet Basic Tasks pour faire une Capture :

	Host Management Edit:						
Info- General Basic Tasks Active Directory Printers	Snapins Service Settings Power Management Inventory Virus History Login History Image History Snapin History Membership Delete						
Main Menu	Host Tasks						
List All Hosts Create New Host	Deploy action will send an image saved on the FOG server to the client computer with all included snapins. Deploy						
Export Hosts Import Hosts	Capture will pull an image from a client computer that will be saved on the server.						
	View advanced tasks for this host. Advanced						

On va laisser les champs par défaut et on va cliquer sur Task.

	Host N	Management I	Editi						
s Shapins Bervice Settings	Power Managemen	of inventory	Virus History	Login History	Image History	Snapio History	Members	ship Delete	
				Tasked Succe	ssfully				
			Tasi	Capture Success	Aulty created!				
				Created Task	s For				
				- Window	s10-Test				
	ns Snapins Berrice Bettings	ns Shapers Benice Settings Power Manageme	es Snapers Benice Settings Power Management Inventory	es Snapes. Service Settings Power Management Inventory. Virus Holory Task	rs Snapers Service Settings Power Management Inventory Vaux History Login History Tasked Succe Task Capture Succes Created Task - Window	rs Snapers Service Settings Power Management Inventory Value Hotory Login History Image History Tasked Successfully Task Capture Successfully created Created Tasks For - Vandews10. First	es Snapers Service Bettings Power Management Inventory Virus Holory Login History Image History Snapen History Tasked Successfully Task Capture Successfully created? Created Tasks For - Windows10-Test	es Snapers Benice Settings Power Management Inventory Virus Hotory Login History Image History Snapin History Member Tasked Successfully Task Capture Successfully onelled Created Tasks For - Vandews10. First	In Shapers Service Settings Power Management Inventory Value Holory Login History Image History Shapen History Membership Delete Tasked Successfully Task Capture Successfully orelited Created Tasks For - Windows15 First

Dans l'onglet *Tasks*, on peut vérifier que notre demande de capture a bien été prise en compte :

			Task Management				
/ain Menu				Active Task:	3		
Active Tasks							
List All Hosts	Started By:	٥	Hostname AAC	Image Name 🗘	Start Time	\$ Working with node	\$ Status
Active Multicast Tasks	Search		Search	Search	Search	Search	
Active Snapin Tasks	fog			Windows10-Test	2025-03-04 13:36:25	DefaultMember	<u>े ±</u>
Active Snapin Tasks	fog			Windows10-Test	2025-03-04 13:36:25	DefaultMember	<u>ः</u>

On va donc démarrer notre machine en bootant en PXE et la capture devrait se lancer toute seule :



On peut voir dans l'onglet Images qu'une image a été capturée :

		All Images			
\$	\$	Image Name \$	Storage Group	Image Size: ON ♀ CLIENT	Captured \$
		Search	Search	Search	Search
-	•	Windows10-Test - 1 Single Disk - Resizable ZSTD Compressed	default	111.00 GiB	2025-03-04 14:26:36

Déployer une image

Pour déployer une image, on va modifier le boot order pour booter en PXE.

On va arriver sur cet écran et on va choisir Deploy Image :

```
Host is NOT registered!
Boot from hard disk
Run Memtest86+
Perform Full Host Registration and Inventory
Quick Registration and Inventory
Deploy Image
Join Multicast Session
Client System Information (Compatibility)
Debug Mode
```



On va arriver sur cet écran qui nous demande un Username et un Password où l'on va rentrer les logs du compte par défaut fog :

/ !\ Le clavier est en qwerty / !\

Windows10-Test (1) Return to menu



Open Source Computer Cloning Solution

Partclone Partclone v0.3.32 http://partclone.org Starting to restore image (-) to device (/dev/sda1) note: Storage Location ∴∕images∕, Image name W indows10-Test Calculating bitmap... Please wait... done! File system: NTFS Device size: 104.9 MB = 25599 Blocks Space in use: 30.4 MB = 7413 Blocks Free Space: 74.5 MB = 18186 Blocks Block size: 4096 Byte Elapsed: 00:00:04 Remaining: 00:00:04 Rate: 220.20MB/min Current Block: 3595 Total Block: 25599 Data Block Process: 48.35% Total Block Process: 14.04%

			Host N	Aanagement Ed	dit:									
Info - General Basic Tasks Active Directory Printers	Snapins Service	e Settings Power I	Managemer	t Inventory	Vin	us History Logi	in Histo	Image History	Snapin History	м	embership	Delete		
Main Menu	Host Imaging History													
List All Hosts	Engineer	Imaged From	a 0	Start	٥	End	•	Duration \$	Image	٥	Туре	٥	State	٥
Create New Host	Search	Search		Search		Search		Search	Search		Search		Search	
Export Hosts Import Hosts	fog	Storage Group: Storage Node: DefaultMember	default	2025-03-05 10:23:53		2025-03-05 10:45:40	2	21 minutes 47 seconds	Windows11-Test		Capture		Complete	
	fog	Storage Group: Storage Node: DefaultMember	default	2025-03-05 10:46:31		2025-03-05 10:51:34	5	5 minutes 3 seconds	Windows11-Test		Deploy		Complete	

Erreurs rencontrées

1. Première erreur

adding dns 1.0.0.2	ana ana ana ana ana ana ana ana ana
Either DHCP failed or we were unable to access http://	/fog//index.
php for connection testing.	
idhcpc: started, v1.36.1	
idhcpc: broadcasting discover	
<pre>idhcpc: broadcasting select for , server</pre>	
idhcpc: lease of obtained from	, lease time 172800
deleting routers	
adding dns 1.1.1.2	
adding dns 1.0.0.2	
Either DHCP failed or we were unable to access http://	/fog//index.
php for connection testing.	
idhcpc: started, v1.36.1	
idhcpc: broadcasting discover	
<pre>idhcpc: broadcasting select for server</pre>	
idhcpc: lease of obtained from	, lease time 172800
leleting routers	
adding dns 1.1.1.2	
adding dns 1.0.0.2	
Either DHCP failed or we were unable to access http://	/fog//index.
php for connection testing.	
No DHCP response on interface eth0, skipping it.	
Failed to get an IP via DHCP! Tried on interface(s): e	thO
Please check your network setup and try again!	
그는 것 같은 것 같	

Suite à une migration de mon serveur, son ip avait changée donc j'avais des conflits dans certains fichiers de configuration notamment dans l'onglet *Storage*, *DefaultMember*, le champ *IP Address* n'avait pas changé.

Storage Management Edit: DefaultMember								
Info- General Delete								
Main Menu	Storage Node General							
All Storage Nodes	Storage Node Name	DefaultMember						
Add Storage Node All Storage Groups	Storage Node Description	Auto generated fog nfs group member						
Add Storage Group	IP Address							
	Web root	/fog						
	Max Clients	10						
	Is Master Node	v ?						
	Replication Bandwidth (Kbps)	? 0						
	Storage Group	default - (1)						
	Image Path	Amages						
	FTP Path	/images						
	Snapin Path	/opt/tog/snapins						

2. Deuxième erreur

J'ai booter en PXE et rien ne se passait, juste un message me disant de faire *CTRL-B* pour être en ligne de commande iPXE. Avec des recherches j'ai trouvé qu'il fallait faire ces commandes :

iPXE> dhcp	
Configuring (net0)ok
iPXE> chain http://	/fog/service/ipxe/boot.php

Ce qui m'amenait sur cette page :

Host is NOT registered!
Boot from hard disk Run Memtest86+
Perform Full Host Registration and Inventory
Quick Registration and Inventory
Deploy Image
Client System Information (Compatibility)

Ceci n'est pas du tout bon et j'ai réussi à le régler en configurant les *Scope Options* que j'ai décrit plus tôt dans la procédure.

3. Troisième erreur

Pour la dernière erreur, lorsque j'ai voulu déployer une image sur un ordinateur, j'ai eu ce message d'erreur : erreur : Found bitlocker signature in partition /dev/nvme0n1p3 header/ Please disable BITLOCKER before capturing an image. (isBitlockedPartition) args Passed: /dev/nvme0n1p3

J'avais pourtant bien désactivé le Bitlocker dans le panneau de configuration, mais il fallait aussi réalisé ces deux commandes :

```
manage-bde -off C :
```

```
Disable-Bitlocker -MountPoint « C : » [Cette commande permet aussi de voir la progression de la première commande]
```

PANNETIER Enzo