

```
joe@foggy:~/fogproject-1.5.7$ sudo apt install software-properties-common
```

```
joe@foggy:~$ wget https://github.com/F0GProject/fogproject/archive/1.5.7.tar.gz
```

```
joe@foggy:~$ ls
```

```
1.5.7.tar.gz
```

```
joe@foggy:~$
```

```
joe@foggy:~$ tar -xvzf 1.5.7.tar.gz
```

```
joe@foggy:~$ ls
```

```
1.5.7.tar.gz fogproject-1.5.7
```

```
joe@foggy:~$ cd fogproject-1.5.7/
```

```
joe@foggy:~/fogproject-1.5.7$ ls
```

```
authors.txt bin lib LICENSE packages README.md SELinux src utils
```

```
joe@foggy:~/fogproject-1.5.7$ sudo ./bin/installfog.sh 
```

```
+-----+
| ..#####:.. ..,#,.. .::##::.. |
| .:##### |
| ...##... ..##; ,;##:~::~##... |
| ,# ..##...##:~::~## ..:: |
| ## .::###, ,##. . ##.:~::~#####:~:: |
| ...##:~::~###:~::~#.. .. #...#.#...#:~::~ |
| ..:#####:~:: ..##...##:~::~## .. # |
| # . ..##:,;##;~::~#: .. ##.. |
| .# . .:;#####;~::~:~::~##:~::~;#:~::.. |
| # ..:;###.. |
+-----+
```

Free Computer Imaging Solution

Credits: <http://fogproject.org/Credits>

<http://fogproject.org/Credits>

Released under GPL Version 3

Version: 1.5.7 Installer/Updater

What version of Linux would you like to run the installation for?

- 1) Redhat Based Linux (Redhat, CentOS, Mageia)
- 2) Debian Based Linux (Debian, Ubuntu, Kubuntu, Edubuntu)
- 3) Arch Linux

Choice: [2] 2

```
+-----+
| Credits: http://fogproject.org/Credits |
|      http://fogproject.org/Credits   |
|      Released under GPL Version 3    |
+-----+
```

Version: 1.5.7 Installer/Updater

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Choice: [2] 2

Starting Debian based Installation

```
*** Detected a potential need to reinstall apache and php files.
*** This will remove the /etc/php* and /etc/apache2* directories
*** and remove/purge the apache and php files from this system.
*** If you're okay with this please type Y, anything else will
*** continue the installation, but may mean you will need to
*** remove the files later and make proper changes as
*** necessary. (Y/N):
```

Y

Starting Debian based Installation

```
*** Detected a potential need to reinstall apache and php files.
*** This will remove the /etc/php* and /etc/apache2* directories
*** and remove/purge the apache and php files from this system.
*** If you're okay with this please type Y, anything else will
*** continue the installation, but may mean you will need to
*** remove the files later and make proper changes as
*** necessary. (Y/N):
```

Y

```
* Removing apache and php files.....Done
* Stopping web services.....Failed
* Removing the apache and php packages.....Done
* Resetting our variables to specify php version.....Done
```

FOG Server installation modes:

* Normal Server: (Choice N)

This is the typical installation type and will install all FOG components for you on 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

More information:

<http://www.fogproject.org/wiki/index.php?title=InstallationModes>

What type of installation would you like to do? [N/s (Normal/Storage)]

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```
*** and remove/purge the apache and php files from this system.
*** If you're okay with this please type Y, anything else will
*** continue the installation, but may mean you will need to
*** remove the files later and make proper changes as
*** necessary. (Y/N):
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Y

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* Removing apache and php files.....Done
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What type of installation would you like to do? [N/s (Normal/Storage)] N

We found the following interfaces on your system:

* ens18 - 144.38.193.211/26

Would you like to change the default network interface from ens18?

If you are not sure, select No. [y/N]

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```
*** continue the installation, but may mean you will need to
*** remove the files later and make proper changes as
*** necessary. (Y/N):
```

Y

```
* Removing apache and php files.....Done
* Stopping web services.....Failed
* Removing the apache and php packages.....Done
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Would you like to change the default network interface from ens18?

If you are not sure, select No. [y/N]

Would you like to setup a router address for the DHCP server? [Y/n] Y

*** necessary. (Y/N):

Y

- * Removing apache and php files.....Done
- * Stopping web services.....Failed
- * Removing the apache and php packages.....Done
- * Resetting our variables to specify php version.....Done

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If you are not sure, select No. [y/N]

Would you like to setup a router address for the DHCP server? [Y/n] Y

What is the IP address to be used for the router on

the DHCP server? [144.38.193.193]█

- * Removing apache and php files.....Done
- * Stopping web services.....Failed
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If you are not sure, select No. [y/N]

Would you like to setup a router address for the DHCP server? [Y/n] Y

What is the IP address to be used for the router on the DHCP server? [144.38.193.193]

Would you like DHCP to handle DNS? [Y/n] Y


```
* Stopping web services.....Failed
* Removing the apache and php packages.....Done
* Resetting our variables to specify php version.....Done
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What is the IP address to be used for the router on

the DHCP server? [144.38.193.193]

Would you like DHCP to handle DNS? [Y/n] Y

What DNS address should DHCP allow? [127.0.0.53] 144.38.192.2

* Resetting our variables to specify php version.....Done

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What is the IP address to be used for the router on the DHCP server? [144.38.193.193]

Would you like DHCP to handle DNS? [Y/n] Y

What DNS address should DHCP allow? [127.0.0.53] 144.38.192.2

Would you like to use the FOG server for DHCP service? [y/N] N

This is the typical installation type and will install all FOG components for you on 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

More information:

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If you are not sure, select No. [y/N]

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What is the IP address to be used for the router on

the DHCP server? [144.38.193.193]

Would you like DHCP to handle DNS? [Y/n] Y

What DNS address should DHCP allow? [127.0.0.53] 144.38.192.2

Would you like to use the FOG server for DHCP service? [y/N] N

This version of FOG has internationalization support, would you like to install the additional language packs? [y/N] N

to make this server act as a node in a storage group

More information:

<http://www.fogproject.org/wiki/index.php?title=InstallationModes>

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Would you like to use the FOG server for DHCP service? [y/N] N

This version of FOG has internationalization support, would

you like to install the additional language packs? [y/N] N

*** New option 'hostname' since FOG 1.5.6 ***

Would you like to change the default hostname >foggy<?

The fully qualified hostname is used for the webserver certificate.

If you are not sure, select No. [y/N] N


```
# It will prepend the running with sudo if root is not set #
#####
# Please see our wiki for more information at: #
#####
# https://wiki.fogproject.org/wiki/index.php #
#####
```

* Here are the settings FOG will use:

* Base Linux: Debian

* Detected Linux Distribution: Ubuntu

* Interface: ens18

* Server IP Address: 144.38.193.211

* Server Subnet Mask: 255.255.255.192

* Server Hostname: foggy

* Installation Type: Normal Server

* Internationalization: 0

* 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.

* 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. 144.38.193.211)

* Option 067/filename is the bootfile: (e.g. undionly.kpxe)

* Are you sure you wish to continue (Y/N)

```
# https://wiki.fogproject.org/wiki/index.php #  
#####
```

* Here are the settings FOG will use:

* Base Linux: Debian

* Detected Linux Distribution: Ubuntu

* Interface: ens18

* Server IP Address: 144.38.193.211

* Server Subnet Mask: 255.255.255.192

* Server Hostname: foggy

* Installation Type: Normal Server

* Internationalization: 0

* Image Storage Location: /images

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| current DHCP server to use FOG for PXE services.

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* Option 066/next-server is the IP of the FOG Server: (e.g. 144.38.193.211)

* Option 067/filename is the bootfile: (e.g. undionly.kpxe)

* Are you sure you wish to continue (Y/N) Y

* Installation Started

* Testing internet connection.....

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```
* 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.

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* 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. 144.38.193.211)
* Option 067/filename is the bootfile: (e.g. undionly.kpxe)

* Are you sure you wish to continue (Y/N) Y

* Installation Started

* Testing internet connection.....Done
* Adding repository if needed.....OK
* Preparing Package Manager.....OK
* Packages to be installed:

    apache2 bc build-essential cpp curl g++ gawk gcc genisoimage gzip htmldoc isolinux
lftp libapache2-mod-php7.2 libc6 libcurl4 liblzma-dev m4 mariadb-client mariadb-server ne
t-tools nfs-kernel-server openssh-server php7.2 php7.2-bcmath php7.2-cli php7.2-curl php7.
2-fpm php7.2-gd php7.2-json php7.2-ldap php7.2-mbstring php7.2-mysql php7.2-mysqldb php-ge
ttext sysv-rc-conf tar tftpd-hpa tftp-hpa unzip vsftpd wget xinetd zlib1g

* Installing package: apache2.....
```

```
* Skipping package:  cpp.....(Already Installed)
* Installing package: curl.....0K
* Skipping package:  g++.....(Already Installed)
* Installing package: gawk.....0K
* Skipping package:  gcc.....(Already Installed)
* Installing package: genisoimage.....0K
* Skipping package:  gzip.....(Already Installed)
* Installing package: htmldoc.....0K
* Installing package: isolinux.....0K
* Installing package: lftp.....0K
* Installing package: libapache2-mod-php7.2.....0K
* Skipping package:  libc6.....(Already Installed)
* Skipping package:  libcurl4.....(Already Installed)
* Installing package: liblzma-dev.....0K
* Installing package: m4.....0K
* Installing package: mariadb-client.....0K
* Installing package: mariadb-server.....0K
* Installing package: net-tools.....0K
* Installing package: nfs-kernel-server.....0K
* Skipping package:  openssh-server.....(Already Installed)
* Installing package: php7.2.....0K
* Installing package: php7.2-bcmath.....0K
* Skipping package:  php7.2-cli.....(Already Installed)
* Installing package: php7.2-curl.....0K
* Installing package: php7.2-fpm.....0K
* Installing package: php7.2-gd.....0K
* Skipping package:  php7.2-json.....(Already Installed)
* Installing package: php7.2-ldap.....0K
* Installing package: php7.2-mbstring.....0K
* Installing package: php7.2-mysql.....
```


File Edit View Search Terminal Help

```
* Checking package: php7.2-curl.....0K
* Checking package: php7.2-fpm.....0K
* Checking package: php7.2-gd.....0K
* Checking package: php7.2-json.....0K
* Checking package: php7.2-ldap.....0K
* Checking package: php7.2-mbstring.....0K
* Checking package: php7.2-mysql.....0K
* Checking package: php-gettext.....0K
* Checking package: tar.....0K
* Checking package: tftpd-hpa.....0K
* Checking package: tftp-hpa.....0K
* Checking package: unzip.....0K
* Checking package: vsftpd.....0K
* Checking package: wget.....0K
* Checking package: xinetd.....0K
* Checking package: zlib1g.....0K
```

```
* Configuring services
```

```
* Setting up fogproject user.....0K
* Locking fogproject as a system account.....0K
* Setting up fogproject password.....0K
* Stopping FOGMulticastManager.service Service.....0K
* Stopping FOGImageReplicator.service Service.....0K
* Stopping FOGSnapinReplicator.service Service.....0K
* Stopping FOGScheduler.service Service.....0K
* Stopping FOGPingHosts.service Service.....0K
* Stopping FOGSnapinHash.service Service.....0K
* Stopping FOGImageSize.service Service.....0K
* Is the MySQL password blank? (Y/n) █
```

```
* Stopping FOGImageSize.service Service.....0K
* Is the MySQL password blank? (Y/n) Y
* Setting up and starting MySQL.....Done
* Backing up user reports.....Done
* Stopping web service.....0K
* Setting up Apache and PHP files.....0K
* Testing and removing symbolic links if found.....0K
* Backing up old data.....0K
* Copying new files to web folder.....0K
* Creating config file.....0K
* Downloading kernel, init and fog-client binaries.....Done
* Extracting the binaries archive.....0K
* Copying binaries to destination paths.....0K
* Enabling apache and fpm services on boot.....0K
* Creating SSL CA.....0K
* Creating SSL Private Key.....0K
* Creating SSL Certificate.....0K
* Creating auth pub key and cert.....0K
* Resetting SSL Permissions.....0K
* Setting up Apache virtual host (no SSL).....0K
* Starting and checking status of web services.....0K
* Changing permissions on apache log files.....0K
* Backing up database.....0K
```

```
* You still need to install/update your database schema.
* This can be done by opening a web browser and going to:
```

```
http://144.38.193.211/fog/management
```

```
* Press [Enter] key when database is updated/installed. 
```


Install/Update

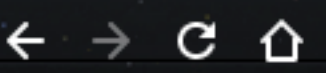
If you would like to backup your FOG database you can do so using MySQL Administrator or by running the following command in a terminal window (Applications->System Tools->Terminal), this will save the backup in your home directory.

```
mysqldump --allow-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 /home/fogDBbackups. Should anything go wrong, this backup will enable you to return to the previous install if needed.

Are you sure you wish to install or update the FOG database?

Install/Update Now



FOG Project

Install / Update Successful!

Click [here](#) to login

```
* Stopping web service.....0K
* Setting up Apache and PHP files.....0K
* Testing and removing symbolic links if found.....0K
* Backing up old data.....0K
* Copying new files to web folder.....0K
* Creating config file.....0K
* Downloading kernel, init and fog-client binaries.....Done
* Extracting the binaries archive.....0K
* Copying binaries to destination paths.....0K
* Enabling apache and fpm services on boot.....0K
* Creating SSL CA.....0K
* Creating SSL Private Key.....0K
* Creating SSL Certificate.....0K
* Creating auth pub key and cert.....0K
* Resetting SSL Permissions.....0K
* Setting up Apache virtual host (no SSL).....0K
* Starting and checking status of web services.....0K
* Changing permissions on apache log files.....0K
* Backing up database.....0K

* You still need to install/update your database schema.
* This can be done by opening a web browser and going to:

  http://144.38.193.211/fog/management

* Press [Enter] key when database is updated/installed.

* Setting up storage.....0K
* Setting up and starting DHCP Server.....Skipped
* Setting up and starting TFTP and PXE Servers.....█
```



```
* Setting up FOG Services.....0K
* Starting FOGMulticastManager.service Service.....0K
* Starting FOGImageReplicator.service Service.....0K
* Starting FOGSnapinReplicator.service Service.....0K
* Starting FOGScheduler.service Service.....0K
* Starting FOGPingHosts.service Service.....0K
* Starting FOGSnapinHash.service Service.....0K
* Starting FOGImageSize.service Service.....0K
* Setting up exports file.....0K
* Setting up and starting RPCBind.....0K
* Setting up and starting NFS Server.....0K
* Linking FOG Logs to Linux Logs.....0K
* Linking FOG Service config /etc.....0K
* Ensuring node username and passwords match.....Done

* 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://144.38.193.211/fog/management>

Default User Information

Username: fog

Password: password

Dashboard


System Overview

Server information at a glance.

Username	fog
Web Server	144.38.193.211
Load Average	0.54, 0.68, 0.51
System Uptime	Up: 0 days 0 hrs 52 mins

Storage Group Activity

Selected groups's current activity



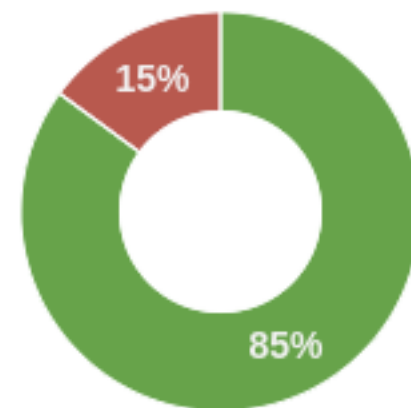
100%

- Free: 10
- Queued: 0
- Active: 0

default ▾

Storage Node Disk Usage

Selected node's disk usage



85% 15%

- Free: 25.32 GiB
- Used: 4.44 GiB

DefaultMember * () ▾

Imaging Over the last 30 days





User Management

Main Menu

[List All Users](#)[Create New User](#)[Export Users](#)[Import Users](#)

All Users

<input type="checkbox"/>	API?	Username	Friendly Name
<input type="checkbox"/>	Search	Search...	Search...
<input type="checkbox"/>	Yes	fog	

Delete Selected

Delete selected users

Delete


User Management Edit: fog

- Info
- General
- Change password**
- API Settings
- Delete

Main Menu

- List All Users
- Create New User
- Export Users
- Import Users

User Change Password

User Password	<input type="password" value="....."/>
User Password (confirm)	<input type="password" value="....."/> 
Update Password?	<input type="button" value="Update"/>

```
joe@dhcp-it3110:/etc/dhcp$ echo "going to add settings to dhcp"
```

```
going to add settings to dhcp
```

```
joe@dhcp-it3110:/etc/dhcp$ 
```

```
# have support for DDNS.)
ddns-update-style none;

# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
authoritative;

# Use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
log-facility local7;

# No service will be given on this subnet, but declaring it helps the
# DHCP server to understand the network topology.

subnet 144.38.193.192 netmask 255.255.255.192 {
    range 144.38.193.220 144.38.193.230;
    option subnet-mask 255.255.255.192;
    option routers 144.38.193.193;

    #here are my options for fog
    next-server 144.38.193.211;
    filename undionly.kpxe;

    #added these two options
    #instruct the machine to load this file
    #filename "ubuntu/pxelinux.0";
    # from this server
    #next-server 144.38.193.210;
}
"dhcpd.conf" 48 lines, 1434 characters written
```


File Edit View Search Terminal Help

```
joe@dhcp-it3110:/etc/dhcp$ echo "going to add settings to dhcp"
```

```
going to add settings to dhcp
```

```
joe@dhcp-it3110:/etc/dhcp$ sudo vi dhcpd.conf
```

```
[sudo] password for joe:
```

```
joe@dhcp-it3110:/etc/dhcp$ sudo service isc-dhcp-server restart
```

```
joe@dhcp-it3110:/etc/dhcp$ █
```



```
joe@dhcp-it3110:/etc/dhcp$ echo "Test netboot"
```

```
Test netboot
```

```
joe@dhcp-it3110:/etc/dhcp$ 
```

```
joe@dhcp-it3110:/etc/dhcp$ echo "Make sure your filename directive has quotes around it"
Make sure your filename directive has quotes around it
joe@dhcp-it3110:/etc/dhcp$ █
```

```
joe@dhcp-it3110:/etc/dhcp$ echo "Make sure your filename directive has quotes around it"
Make sure your filename directive has quotes around it
joe@dhcp-it3110:/etc/dhcp$ cat dhcpd.conf | grep filename
filename "undionly.kpxe";
#filename "ubuntu/pxelinux.0";
joe@dhcp-it3110:/etc/dhcp$
```


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)

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)

Starting host registration

* Attempting to register host.....Done

```
+-----+
| System Information |
+-----+
```

* System Manufacturer:.....QEMU

* System Product Name:.....Standard PC (i440FX + PIIX,
1996)

* System Version:.....pc-i440fx-4.0

* System Serial Number:.....Not Specified

* System UUID:.....ecdfeb2c-1136-43c5-ae6d-f09
8c8c5253c

* Computer Form Factor:..... Type: Other

```
+-----+
| BIOS Information |
+-----+
```

* BIOS Version:.....rel-1.12.1-0-ga5cab58e9a3f-
prebuilt.qemu.org

* BIOS Vendor:.....SeaBIOS

* BIOS Date:.....04/01/2014



Host Management

Main Menu

[List All Hosts](#)[Create New Host](#)[Export Hosts](#)[Import Hosts](#)

All Hosts

	<input type="checkbox"/>		Host	Imaged	Task	Assigned Image
			<input type="text" value="Search..."/>	<input type="text" value="Search..."/>		<input type="text" value="Search..."/>
	<input type="checkbox"/>		0a3a52ed6b7c 0a:3a:52:ed:6b:7c	No Data		

Group Associations

Create new group

or

Add to group

No items found

Make changes?

Host Management Edit: 0a3a52ed6b7c

- 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

- List All Hosts
- Create New Host
- Export Hosts
- Import Hosts

Host general

Host Name	<input type="text" value="awesomehost"/>
Primary MAC	<input type="button" value="Load MAC Vendors"/> <input type="text" value="0a:3a:52:ed:6b:7c"/> <input type="button" value="+"/> <input type="checkbox"/> I.M.C. <input type="checkbox"/> I.M.I.
Host description	<input type="text" value="Created by FOG Reg on January 29, 2020, 6:26 pm"/>
Host Product Key	<input type="text"/>
Host Image	No items found
Host Kernel	<input type="text"/>
Host Kernel Arguments	<input type="text"/>

Host Management Edit: 0a3a52ed6b7c

- Info ▾
- General
- Basic Tasks**
- Active Directory
- Printers
- Snapins
- Service Settings
- Power Management
- Inventory
- Virus History
- Login History
- Image History
- Snapin History
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- Delete

Main Menu

- List All Hosts
- Create New Host
- Export Hosts
- Import Hosts

Host Tasks

- Deploy**
Deploy action will send an image saved on the FOG server to the client computer with all included snapins.
- Capture**
Capture will pull an image from a client computer that will be saved on the server.
- Advanced**
View advanced tasks for this host.


```
joe@foggy:~$ echo "Have to create an image before you can capture one" 
```



Image Management

Main Menu

- List All Images
- Create New Image
- Export Images
- Import Images
- Multicast Image

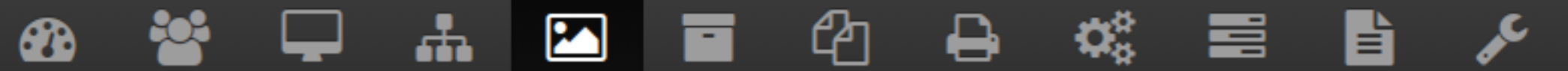
All Images

```
joe@foggy:~$ echo "No images there, create one"
```

```
No images there, create one
```

```
joe@foggy:~$ 
```

Search...



Main Menu

- List All Images
- Create New Image
- Export Images
- Import Images
- Multicast Image

New Image

Image Name	<input type="text" value="image1"/>
Image Description	<input type="text" value="this image will be of my <u>ubuntu</u> server"/>
Storage Group	<input type="text" value="default - (1)"/>
Operating System	<input type="text" value="Linux - (50)"/>
Image Path	<input type="text" value="/images/ image1"/>
Image Type	<input type="text" value="Single Disk - Resizable - (1)"/>
Partition	<input type="text" value="Everything - (1)"/>
Image Enabled	<input checked="" type="checkbox"/>
Replicate?	<input checked="" type="checkbox"/>
Compression	<input type="range" value="6"/>

Image Management

Main Menu

- List All Images
- Create New Image
- Export Images
- Import Images
- Multicast Image

All Images

			Image Name	Storage Group	Image Size: ON CLIENT	Captured
⌵	⌵	<input type="checkbox"/>	<input type="text" value="Search..."/>	<input type="text" value="Search..."/>	<input type="text" value="Search..."/>	<input type="text" value="Search..."/>
		<input type="checkbox"/>	image1 - 1 Single Disk - Resizable Partclone Compressed	default	0.00 iB	Invalid date

Delete Selected

Delete selected images

Delete