

Instalando o FOG no Ubuntu Server 22.04.3 LTS

Links importantes

<http://fogret.ifsp.edu.br/>

Antes de realizar a instalação do FOG atualize a lista de repositórios e o sistema do **Ubuntu Server 22.04.3 LTS:**

A versão atual do FOG (Version 1.5.10) não é compatível com a distribuição mais recente do Ubuntu 22.04 LTS. (janeiro de 2024)

```
sudo apt-get update
```

```
sudo apt-get upgrade
```

Baixe os arquivos de instalação do FOG através da sua página oficial no: (
<https://fogproject.org/download>).

Copie o arquivo de instalação para o diretório *opt* (**opcional, pode ser outro diretório**):

```
cd /opt
```

```
sudo wget https://github.com/FOGProject/fogproject/archive/1.5.10.tar.gz (versão mais recente em março de 2023)
```

Descompacte o arquivo de instalação:

```
sudo tar -xzf 1.5.10.tar.gz
```

Instruções para o instalador:

Para iniciar o instalador do FOG, acesse o diretório **cd /opt/fogproject-1.5.10/bin** e execute o script de instalação:

cd fogproject-1.5.10/bin

sudo ./installfog.sh

```
fog@fog: /opt/fogproject-1.5.9/bin
fog@fog:/opt/fogproject-1.5.9/bin$ sudo ./installfog.sh
[sudo] password for fog:
Installing LSB_Release as needed
* Attempting to get release information.....Done

+-----+
| ..#####:.    .,##,..    .:##:.. |
| :#####      .:;###:.....;#;.. |
| ...##...      ...##;.;###:....##... |
| ,#           ...##.....##:###    .: |
| ##          .:###,##.    . ##.:#.:#####:.. |
| ...##:###:###:.....#.    .. #...#. #...##:.. |
| ..#####:..    ..##.....##:###    .. # |
| # .           ...##;.;###:....#    ##.. |
| .# .          .:;###:;....##:..;#;.. |
| #            ...;###.. |
|-----+
|      Free Computer Imaging Solution      |
|-----+
| Credits: http://fogproject.org/Credits |
| http://fogproject.org/Credits |
| Released under GPL Version 3 |
|-----+

Version: 1.5.9 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
```

Fog Project – Instalador do Fog Project 1.5.10 no Ubuntu 22.04.03 LTS

Nesse caso, como estamos instalando o Ubuntu, vamos escolher a opção **2** na instalação, conforme a imagem acima.

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

Version: 1.5.9 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

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):
```

Vamos digitar **Y**, indicando como **sim**.

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

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

* Removing apache and php files.....Done
* Stopping web services.....Done
* Removing the apache and php packages.....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)] n

Agora **N**, indicando como normal. Conforme a imagem acima.

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
* Removing apache and php files.....Done
* Stopping web services.....Done
* Removing the apache and php packages.....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)] n

We found the following interfaces on your system:

* enp0s3 - 192.168.1.107/24

Would you like to change the default network interface from enp0s3?

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

Está perguntando se quer alterar a interface padrão(placa de rede enp0s3 - 192.168.1.107/24), neste caso **N**.

O IP: **192.168.1.107** será o endereço do FOG.

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.....Done
* Removing the apache and php packages.....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)] n

We found the following interfaces on your system:

* enp0s3 - 192.168.1.107/24

Would you like to change the default network interface from enp0s3?

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

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

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

Configuração de endereço de DHPC. **N** e

Na opção do DNS em **N** Também.

```
*** 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.....Done
* Removing the apache and php packages.....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)] n

We found the following interfaces on your system:
  * enp0s3 - 192.168.1.107/24

Would you like to change the default network interface from enp0s3?
If you are not sure, select No. [y/N] n

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

Gostaria de usar o FOG como servidor DHCP? Não!

Cuidado! Habilitando essa opção em uma local que já tenha o serviço de DHCP ativo pode gerar alguns problemas na rede.

```
*** 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.....Done
* Removing the apache and php packages.....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)] n

We found the following interfaces on your system:
  * enp0s3 - 192.168.1.107/24

Would you like to change the default network interface from enp0s3?
If you are not sure, select No. [y/N] n

Would you like to setup a router address for the DHCP server? [Y/n] 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 FOG has internationalization support, would
you like to install the additional language packs? [y/N] y
```

Digitei y, mas é opcional.


```
y
* Removing apache and php files.....Done
* Stopping web services.....Done
* Removing the apache and php packages.....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)] n

We found the following interfaces on your system:
  * enp0s3 - 192.168.1.107/24

Would you like to change the default network interface from enp0s3?
If you are not sure, select No. [y/N] n

Would you like to setup a router address for the DHCP server? [Y/n] 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 FOG has internationalization support, would
you like to install the additional language packs? [y/N] y

Using encrypted connections is state of the art on the web and we
encourage you 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.fogproject.org/HTTPS before you decide!
Would you like to enable secure HTTPS on your FOG server? [y/N] █
```

Opcional: Y/N.

```
#####
#   FOG now has everything it needs for this setup, but please   #
#   understand that this script will overwrite any setting you may #
#   have setup for services like DHCP, apache, pxe, tftp, and NFS. #
#####
# It is not recommended that you install this on a production system #
#   as this script modifies many of your system settings.         #
#####
#   This script should be run by the root user.                   #
#   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: enp0s3
* Server IP Address: 192.168.1.107
* Server Subnet Mask: 255.255.255.0
* Server Hostname: fog
* Installation Type: Normal Server
* Internationalization: l
* 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. 192.168.1.107)
* Option 067/filename is the bootfile: (e.g. undionly.kpxe)

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

Neste caso mostra o resumo que foi escolhido e se realmente quer continuar.

```
fog@fog: /opt/fogproject-1.5.9/bin
* Backing up old data.....OK
* Copying new files to web folder.....OK
* Creating the language binaries.....Done
* Creating config file.....OK
* Creating redirection index file.....OK
* Downloading kernel, init and fog-client binaries.....Done
* Copying binaries to destination paths.....OK
* Enabling apache and fpm services on boot.....OK
* Creating SSL CA.....OK
* Creating SSL Private Key.....OK
* Creating SSL Certificate.....OK
* Creating auth pub key and cert.....OK
* Resetting SSL Permissions.....OK
* Setting up Apache virtual host (no SSL).....OK
* Starting and checking status of web services.....OK
* Changing permissions on apache log files.....OK
* Backing up database.....Done

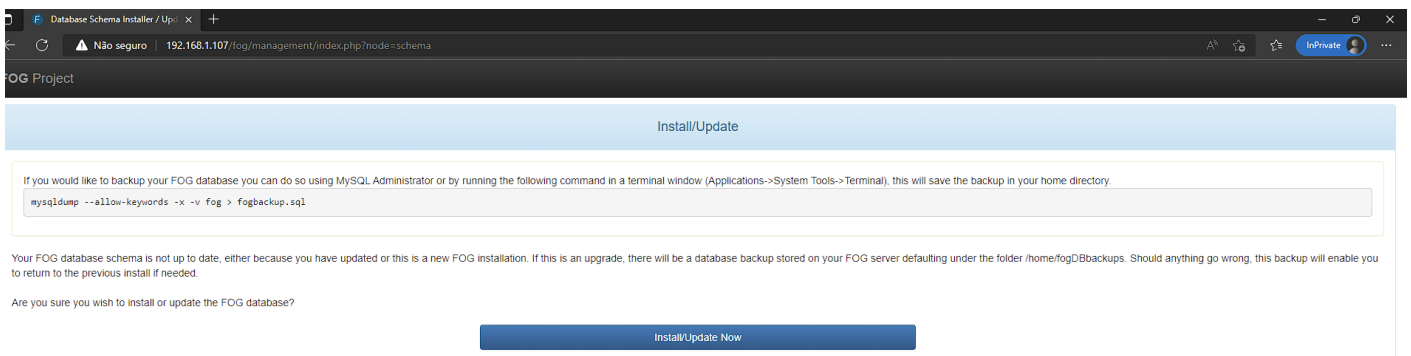
* You still need to install/update your database schema.
* This can be done by opening a web browser and going to:

http://192.168.1.107/fog/management

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

Antes pressionar o Enter acesse <http://192.168.1.107/fog/management>

Pressione Install/Update Now, conforme a imagem a baixo e só depois volte na janela de instalação e finalize pressionando o Enter.



* 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://192.168.1.107/fog/management>

Default User Information

Username: fog

Password: password

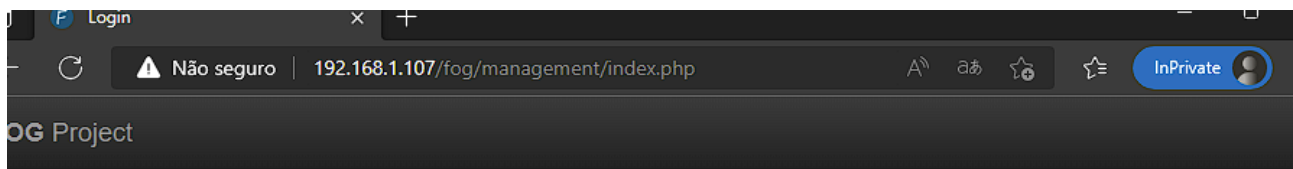
* Changed configurations:

The FOG installer changed configuration files and created the following backup files from your original files:

* /etc/vsftpd.conf <=> /etc/vsftpd.conf.1655941921

* /etc/exports <=> /etc/exports.1655941921

fog@fog:/opt/fogproject-1.5.9/bin\$





FOG Project

Username

Password

Language

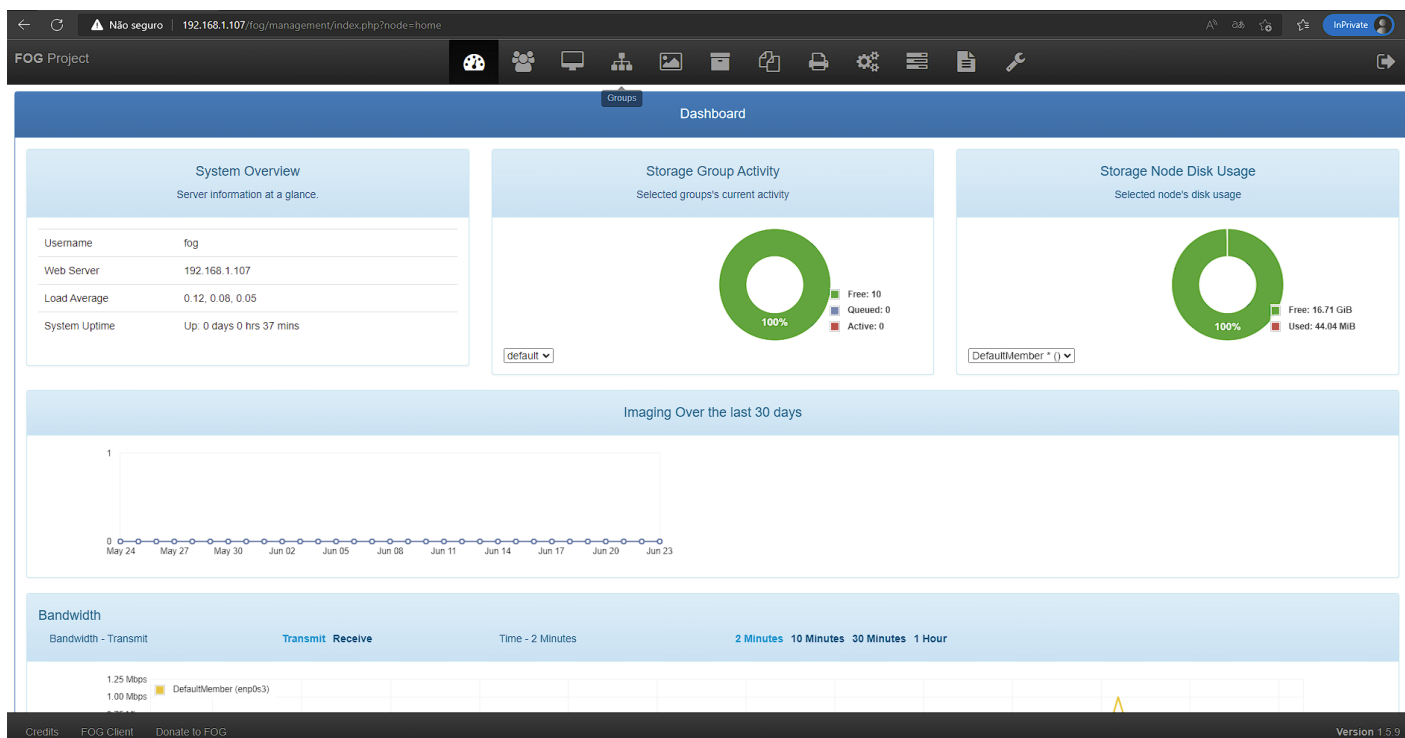
English

Login

Estimated FOG Sites:	3945
Latest Version:	1.5.9
Latest Development Version:	1.5.9.154

Usuário e senha padrão: *Username: **fog** Password: **password***

Instalação finalizada



Informações sobre as configurações avançadas do DHCP Server, necessárias para o correto funcionamento do ambiente PXE:

- * 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. **192.168.1.107**)
- * Option **067/filename** is the bootfile: (e.g. **undionly.kpxe**)

Revision #28

Created 2022-04-07 13:28:04 -03 by Jailton Soares de Araujo

Updated 2024-01-08 15:56:24 -03 by Jailton Soares de Araujo