First download the fog files
cituser@fog:~$ tar -xvzf fog_1.2.0.tar.gz
cituser@fog:~$ ls
fog_1.2.0  fog_1.2.0.tar.gz  joesfiles

cituser@fog:~$ cd fog_1.2.0/

cituser@fog:~/fog_1.2.0$ cd bin/

cituser@fog:~/fog_1.2.0/bin$ sudo ./installfog.sh  .install.sh

cituser@fog:~/fog_1.2.0/bin$ sudo ./installfog.sh
Version: 1.2.0 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)

Choice: [2]2
Version: 1.2.0 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)

Choice: [2]2

Starting Debian / Ubuntu / Kubuntu / Edubuntu Installation.

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:

What type of installation would you like to do? [N] N
Starting Debian / Ubuntu / Kubuntu / Edubuntu Installation.

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:

What type of installation would you like to do? [N]

What is the IP address to be used by this FOG Server? [144.38.220.205]

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? [144.38.220.193] 144.38.220.196

Would you like to setup a DNS address for the DHCP server and client boot image? [Y/n] 
What is the IP address to be used for DNS on the DHCP server and client boot image? [144.38.220.203] 144.38.219.183

Would you like to change the default network interface from eth0? 
If you are not sure, select No. [y/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]
Would you like to donate computer resources to the FOG Project to mine cryptocurrency? This will only take place during active tasks and should NOT have any impact on performance of your imaging or other tasks. The currency will be used to pay for FOG Project expenses and to support the core developers working on the project. For more information see:

http://fogproject.org/?q=cryptocurrency

Would you like to donate computer resources to the FOG Project? [y/N] N

FOG now has everything it needs to setup your server, 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 on Redhat or with sudo on Ubuntu.

** Notice ** Redhat users will need to disable SELinux and iptables in order to use FOG
Please see our wiki for more information at http://www.fogproject.org/wiki

Here are the settings FOG will use:
Base Linux: Debian
Detected Linux Distribution: Ubuntu
Installation Type: Normal Server
Server IP Address: 144.38.220.205
DHCP router Address: 144.38.220.196
DHCP DNS Address: 144.38.219.183
Interface: eth0
Using FOG DHCP: 0
Internationalization: 0
Donate: 0

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

On a Windows DHCP server you must set:
option 066 & 067

Option 066 is the IP of the FOG Server: (e.g. 144.38.220.205)
Option 067 is the undionly.kpxe file: (e.g. undionly.kpxe)

Are you sure you wish to continue (Y/N)
** Notice ** Redhat users will need to disable SELinux and iptables in order to use FOG

Please see our wiki for more information at http://www.fogproject.org/wiki

Here are the settings FOG will use:

Base Linux: Debian
Detected Linux Distribution: Ubuntu
Installation Type: Normal Server
Server IP Address: 144.38.220.205
DHCP router Address: 144.38.220.196
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Interface: eth0
Using FOG DHCP: 0
Internationalization: 0
Donate: 0

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
```

On a Windows DHCP server you must set:

```
option 066 & 067
```

Option 066 is the IP of the FOG Server: (e.g. 144.38.220.205)
Option 067 is the undionly.kpxe file: (e.g. undionly.kpxe)

Are you sure you wish to continue (Y/N) Y
Configuring mysql-server-5.5

While not mandatory, it is highly recommended that you set a password for the MySQL administrative "root" user.

If this field is left blank, the password will not be changed.

New password for the MySQL "root" user:

**********

<Ok>
Package configuration

Configuring mysql-server-5.5

Repeat password for the MySQL "root" user:

 **********

<Ok>
* Checking package: php5-mysql...OK
* Checking package: php5-curl...OK
* Checking package: mysql-server...OK
* Checking package: mysql-client...OK
* Checking package: tftpd-hpa...OK
* Checking package: tftp-hpa...OK
* Checking package: nfs-kernel-server...OK
* Checking package: vsftpd...OK
* Checking package: net-tools...OK
* Checking package: wget...OK
* Checking package: xinetd...OK
* Checking package: sysv-rc-conf...OK
* Checking package: tar...OK
* Checking package: gzip...OK
* Checking package: build-essential...OK
* Checking package: cpp...OK
* Checking package: gcc...OK
* Checking package: g++...OK
* Checking package: m4...OK
* Checking package: htmldoc...OK
* Checking package: lftp...OK
* Checking package: openssh-server...OK
* Checking package: php-gettext...OK
* Checking package: clamav-freshclam...OK

Configuring services.

* Setting up fog user...OK
* Setting up and starting MySql...OK
* Backing up user reports...OK
* Did you leave the mysql password blank during install? (Y/n) n
* Checking package: xinetd...OK
* Checking package: sysv-rc-conf...OK
* Checking package: tar...OK
* Checking package: gzip...OK
* Checking package: build-essential...OK
* Checking package: cpp...OK
* Checking package: gcc...OK
* Checking package: g++...OK
* Checking package: m4...OK
* Checking package: htmldoc...OK
* Checking package: lftp...OK
* Checking package: openssh-server...OK
* Checking package: php-gettext...OK
* Checking package: clamav-freshclam...OK

Configuring services.

* Setting up fog user...OK
* Setting up and starting MySQL...OK
* Backing up user reports...OK
* Did you leave the mysql password blank during install? (Y/n) n

* Please enter your mysql password:
* Please re-enter your mysql password:
* Setting up and starting Apache Web Server...OK
You still need to install/update your database schema. This can be done by opening a web browser and going to:

   http://144.38.220.265/fog/management

Press [Enter] key when database is updated.installed.
Database Schema Installer / Updater

Your FOG database schema is not up to date, either because you have updated FOG or this is a new FOG installation. If this is an upgrade, we highly recommend that you backup your FOG database before updating the schema (this will allow you to return the previous installed version).

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

```
cd ~; mysqldump -allow-keywords -x -v fog > fogbackup.sql
```

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

[Install/Upgrade Now]
Database Schema Installer / Updater

Update/Install Successful!

Click here to login.
* Checking package: cpp...OK
* Checking package: gcc...OK
* Checking package: g++...OK
* Checking package: m4...OK
* Checking package: htmldoc...OK
* Checking package: lftp...OK
* Checking package: openssh-server...OK
* Checking package: php-gettext...OK
* Checking package: clamav-freshclam...OK

Configuring services.

* Setting up fog user...OK
* Setting up and starting MySQL...OK
* Backing up user reports...OK
* Did you leave the mysql password blank during install? (Y/n) n

* Please enter your mysql password:
* Please re-enter your mysql password:
* Setting up and starting Apache Web Server...OK
You still need to install/update your database schema.
This can be done by opening a web browser and going to:

    http://144.38.220.205/fog/management

Press [Enter] key when database is updated/installed.
* Configuring Fresh Clam...OK
* Setting up storage...OK
* Setting up and starting NFS Server...OK
* Setting up and starting DHCP Server...Skipped
* Setting up and starting TFTP and PXE Servers...
* Please re-enter your mysql password:
* Setting up and starting Apache Web Server...OK
You still need to install/update your database schema.
This can be done by opening a web browser and going to:

http://144.38.220.205/fog/management

Press [Enter] key when database is updated/installed.
* Configuring Fresh Clam...OK
* Setting up storage...OK
* Setting up and starting NFS Server...OK
* Setting up and starting DHCP Server...Skipped
* Setting up and starting TFTP and PXE Servers...OK
* Setting up and starting VSFTP Server...OK
* Setting up sudo settings...OK
* Setting up FOG Snapins...OK
* Setting up and building UDPCast...OK
* Installing init scripts...OK
* Setting up FOG Services...OK
* Starting FOG Multicast Management Server...OK
* Starting FOG Image Replicator Server...OK
* Starting FOG Task Scheduler Server...OK
* Setting up FOG Utils...OK

Would you like to notify the FOG group about this installation?
* This information is only used to help the FOG group determine
  if FOG is being used. This information helps to let us know
  if we should keep improving this product.

Send notification? (Y/N)N
* Starting FOG Image Replicator Server...OK
* Starting FOG Task Scheduler Server...OK
* Setting up FOG Utils...OK

Would you like to notify the FOG group about this installation?
* This information is only used to help the FOG group determine
  if FOG is being used. This information helps to let us know
  if we should keep improving this product.

Send notification? (Y/N) N
NOT sending notification.

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://144.38.220.205/fog/management

Default User:
  Username: fog
  Password: password

Script done, file is /var/log/foginstall.log
Management Login

Username: fog
Password: ********
Language: English

Login

Estimated FOG sites: 4210
Latest Version: 1.2.0
host ldap2{
    hardware ethernet 52:54:00:08:03:56;
    fixed-address 144.38.220.202;
}

host win10{
    hardware ethernet 52:54:00:08:01:45;
    fixed-address 144.38.220.215;
}

host linsambaclient{
    hardware ethernet 52:54:00:08:00:3e;
    fixed-address 144.38.220.204;
    option host-name "linsambaclient.zero.cs.dixie.edu";
}

host fog{
    hardware ethernet 52:54:00:08:01:AE;
    fixed-address 144.38.220.205;
}

allow booting;
allow bootp;
option option-128 code 128 = string;
option option-129 code 129 = text;
# entering ip of my fog server here
next-server 144.38.220.205;
# filename to look for
filename "undionly.kpxe";
next-server 144.38.220.211;
We had to point our netboot images to the fog server.

root@ubuntu:~ $ sudo service isc-dhcp-server restart
isc-dhcp-server stop/waiting
isc-dhcp-server start/running, process 11019