



## LizardFS Shadow-Master (Backup master) Configuration

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## = Installation of LizardFS Packages

```
apt update
apt install -y lizardfs-master lizardfs-adm lizardfs-cgi lizardfs-cgiserv
```

We have to modify Hosts file as follows.  
Here make your **hostname** according to your **groupname** following the bellow format

| IP Address | groupX-nodeY |
|------------|--------------|
|------------|--------------|

// replace X with group-number & Y with node number as instructor say.

For Example for **Group # 01**

```
vim /etc/hosts
192.168.108.10 group1-node0 mfsmaster

192.168.108.11 group1-node1
192.168.108.12 group1-node2
192.168.108.13 group1-node3
```

This is very important to follow the proper naming of the nodes.  
For massive deployment you may use internal dns-server configured by unbound.

## = Configuring LizardFS Shadow-Master Metadata-Server

Configure an alias IP address for master server. We will configure it as alias IP so that we can move this IP if our Master-Server fail.

```
cp /usr/share/doc/lizardfs-master/examples/* /etc/lizardfs/
```

```
cd /etc/lizardfs  
vim mfsmaster.cfg
```

Now uncomment the following lines | OR | **Copy & Past** the following lines at the end of the file.

```
PERSONALITY = shadow  
WORKING_USER = lizardfs  
WORKING_GROUP = lizardfs  
SYSLOG_IDENT = mfsmaster  
EXPORTS_FILENAME = /etc/lizardfs/mfsexports.cfg  
TOPOLOGY_FILENAME = /etc/lizardfs/mfstopology.cfg  
CUSTOM_GOALS_FILENAME = /etc/lizardfs/mfsgoals.cfg  
DATA_PATH = /var/lib/lizardfs  
AUTO_RECOVERY = 1  
ENDANGERED_CHUNKS_PRIORITY = 1  
MASTER_HOST = mfsmaster  
MASTER_PORT = 9419
```

Make some more changes;

```
cp /var/lib/lizardfs/metadata.mfs.empty /var/lib/lizardfs/metadata.mfs
```

Change/uncomment parameter as follows in the file `mfstopology.cfg`

```
vim mfstopology.cfg
```

```
192.168.108.0/24          1
```

Modify the file `mfsgoals.cfg`

```
vim mfsgoals.cfg
```

```
1 1 : _  
2 2 : __  
3 3 : ___  
4 xor2 : $xor2  
5 xor3 : $xor3
```

Restart the LizardFS-services

```
/etc/init.d/lizardfs-master restart  
/etc/init.d/lizardfs-cgiserv restart
```

```
systemctl enable lizardfs-master  
systemctl enable lizardfs-cgiserv
```

```
systemctl status lizardfs-master.service
```

Now browse to <http://192.168.108.10:9425> and check that shadow-server is added there and synced.

= Making the script to start LizardFS service start automatically after reboot

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```
vim /etc/network/if-up.d/lizardfs-up.sh
#!/bin/bash
# ifconfig eth0:0 192.168.108.10/24 up      # enable this line if you want to use this shadow-server as master-server
/etc/init.d/lizardfs-master restart
sleep 3
/etc/init.d/lizardfs-cgiserv restart
Save-and-Exit
```

```
chmod +x /etc/network/if-up.d/lizardfs-up.sh
echo 'post-up /etc/network/if-up.d/lizardfs-up.sh' >> /etc/network/interfaces
```

Now reboot.

```
reboot
```