

# Virtual Machine administration tips

- [How to mount remote filesystem with FUSE \(Filesystem in USEr space\) on CentOS or Ubuntu](#)
- [How to use and configure Docker in your virtual machine](#)

## How to mount remote filesystem with FUSE (Filesystem in USEr space) on CentOS or Ubuntu

### On CentOS:

You will need to install a few packages that are not available in the standard CentOS repository. So, you must enable the EPEL repo:

```
yum install epel-release -y
```

- Install FUSE (Filesystem in USEr space) and SSHFS packages

```
yum install fuse sshfs  
- Load the FUSE module
```

```
modprobe fuse
```

- Confirm that the FUSE module is loaded

```
lsmod | grep fuse  
fuse                84368      2
```

- Optionally, make sure the FUSE module is loaded upon a reboot

```
echo "modprobe fuse" >> /etc/rc.local
```

- Using SSHFS. Once the FUSE module is loaded, you can mount your remote partition using SSHFS:

```
sshfs user@remote_host:/remote_directory /local_mount_partition
```

If you have configured the login via ssh key authorization, you can use the following command:

```
sshfs user@remote_host:/remote_directory /local_mount_partition -o IdentityFile=<absolute-path-with-key>
```

### Note: If appear the following error

```
fuse: bad mount point `/local_mount_partition': Transport endpoint is not connected
```

```
execute: sudo fusermount -u /local_mount_partition
```

### On Ubuntu:

First you have to install FUSE and SSHFS packages with the apt-get comand:

```
apt-get install fuse
```

```
apt-get install sshfs
```

Once the FUSE module is loaded, you can mount your remote partition using SSHFS:

```
sshfs user@remote_host:/remote_directory /local_mount_partition
```

If you have configured the login via ssh key authorization, you can use the following command:

```
sshfs user@remote_host:/remote_directory /local_mount_partition -o IdentityFile=<absolute-path-with-key>
```

### Note: If appear the following error

```
fuse: bad mount point `/local_mount_partition': Transport endpoint is not connected
```

```
execute: sudo fusermount -u /local_mount_partition
```

## How to use and configure Docker in your virtual machine

To use Docker in your virtual machine please set the MTU value at 1400 in the file `/etc/docker/daemon.json`. More in particular edit the file `/etc/docker/daemon.json` and then set

```
{  
  "mtu" : 1400  
}
```