

Create A CentOS 5 DVD Yum Repository Locally

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Why:

- During operating system installation, most probably that we didn't install all of the packages which are available in the CentOS 5 DVD. Even though there are many CentOS 5 Yum repositories available in the Internet but for some people, the Internet network bandwidth is a premium, so having a local Yum repository will expedite package installation for its own server and also for other computers within the local network.

Goal:

- Create a CentOS 5 DVD Yum repository locally which can be accessed not only from the server itself but also from other computers within a local network.

- Other computers will access the repo through FTP anonymously.
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Assumption:

- You already have a CentOS 5 server up and running. See '[CentOS 5 Installation From DVD](#)' if you don't have one.
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Installation and Configuration Process:

1. Mount DVD.

If you have a physical DVD then you can put the DVD into the DVD drive.
If you have an iso file, like I do, mount the iso file into '/mnt' directory.

Note: I have a 'CentOS-5.0-i386-bin-DVD.iso' file in the '/download' directory.

```
# mount -o loop /download/CentOS-5.0-i386-bin-DVD.iso /mnt
```

2. Install vsftpd.

If you don't have 'vsftpd' installed in the system, you need to install this package since we will allow other computers within the local network to access Yum repository through FTP.

Verify whether 'vsftpd' has been installed:

```
# rpm -q vsftpd
```

If it has not been installed and your system was connected to the Internet, you can use Yum to install the package.

```
# yum install vsftpd
```

Otherwise, install from the DVD.

```
# rpm -Uvh /mnt/CentOS/vsftpd*
```

3. Create A Repo Directory And Copy RPMs + GPG-KEY.

Since we will use FTP so we will put the repo in the FTP directory.
The default anon_root directory for vsftpd is a '/var/ftp/pub'.

```
# cd /var/ftp/pub  
# mkdir centos5dvd
```

```
# cd centos5dvd
```

```
# cp -r /mnt/CentOS .
```

```
# cp /mnt/RPM-GPG-KEY .
```

4. Install createrepo Package.

Check whether you already have createrepo package installed.

```
# rpm -q createrepo
```

If it has not been installed and you have an Internet connection, you can use Yum command to install the package.

```
# yum install createrepo
```

Otherwise, install the package locally.

```
# rpm -Uvh /var/ftp/pub/centos5dvd/CentOS/createrepo*
```

5. Create A Yum Repo.

Create a Yum repository locally.

```
# cd /var/ftp/pub/centos5dvd
```

```
# createrepo .
```

6. Create A Repo File.

Create a '/etc/yum.repos.d/centos5-dvd.repo' file and add the following entries:

```
[centos5-dvd]
name=CentOS 5 DVD Repository
baseurl=file:///var/ftp/pub/centos5dvd/
enabled=1
gpgcheck=1
```

7. Test The Local Repo.

Run couple of Yum's commands; to list and install a package from a local repo only.

Note:

- The name of repo which specified in the '--disablerepo' and '--enablerepo' are what stated inside the repo files, not the filename.
- The filename can be anything, Yum will only care with the content of the file.
- A wild card is allowed.

Example:

- Filename: myownrepo.repo
- Inside the file: [my-own-personal-repo]

So you will have to use 'my-own-personal-repo' for those two parameters.

We will disable all other repositories when we run Yum's `command`.

```
# yum --disablerepo=* --enablerepo=centos5-dvd list available
```

Install one of the packages; in this example I choose 'zsh-html'.

```
# yum --disabledrepo=* --enablerepo=centos5-dvd install zsh-html
```

8. Enable Anonymous FTP.

By default, vsftpd will enable anonymous access.

We need to configure vsftpd so it will be started (persistent) upon reboot.

```
# chkconfig vsftpd on
```

Start the service:

```
# service vsftpd start
```

9. Set Repo File In Other Computers.

Create a `'/etc/yum.repos.d/centos5-dvd.repo'` file and add the following entries:

```
[centos5-dvd]
name=CentOS 5 DVD Repository
baseurl=ftp://192.168.1.90/pub/centos5dvd/
enabled=1
gpgcheck=1
```

Note: replace the IP address which fit with your environment.

10. Test Yum's Commands On Other Computers.

Run couple of Yum's commands on other computers; to list and install a package.
We will disable all other repositories when we run Yum's `command`.

```
# yum --disablerepo=* --enablerepo=centos5-dvd list available
```

Install one of the packages; in this example I choose 'zsh-html'.

```
# yum --disabledrepo=* --enablerepo=centos5-dvd install zsh-html
```

Conclusion:

Setting a Yum repository can be done quickly and easily. We demonstrated already, for some people which the Internet connection is a premium, setting up a CentOS 5 DVD repo will be expedite their package management needs. Other computers within the local network can take advantage the availability of the Yum repository too.

