

# **RHEL LABS**

## **Week 7**

*CIT 217*

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## Chapter 13

**i) Use the yum command to install Ruby. Provide the output.**

As you can see in You can see in Fig. 1 a on Pg. 2 I entered the command `yum install -y ruby`. You can see in You can see in Fig. 1 b on Pg. 2 that it was successfully installed.

**ii) Disable the rhel\_dvd yum repository and provide the output.**

I ran `yum repolist` to see the contents of the repo list. I then ran `yum-config-manager --disable rhel_dvd` to remove it and then ran `yum repolist` again, the output of which you can see in You can see in Fig. 1 c on Pg. 2.

**iii) Download wonderwidgets-1.0-4.x86\_64.rpm from <http://classroom/pub/materials/> within the NetLab environment. Using the rpm command, provide the output of the file contents.**

I ran `wget wonderwidgets-1.0-4.x86_64.rpm` to download the required files. Then to show the contents I ran the command `rpm -q -p wonderwidgets-1.0-4.x86_64.rpm -l` As you can see in Fig. 1d on Pg. 2.

```

[student@server1 ~]$ su -
Password:
Last login: Mon Dec 21 10:01:50 EST 2015 on pts/0
[root@server1 ~]# yum install -y ruby
Loaded plugins: langpacks
Resolving Dependencies
--> Running transaction check
--> Package ruby.x86_64 0:2.0.0.353-20.el7 will be installed
--> Processing Dependency: ruby-libs(x86-64) = 2.0.0.353-20.el7 for package: rub
y-2.0.0.353-20.el7.x86_64
--> Processing Dependency: ruby(rubygems) >= 2.0.14 for package: ruby-2.0.0.353-
20.el7.x86_64
--> Processing Dependency: rubygem(bigdecimal) >= 1.2.0 for package: ruby-2.0.0.
353-20.el7.x86_64
--> Processing Dependency: libruby.so.2.0()(64bit) for package: ruby-2.0.0.353-2
0.el7.x86_64
--> Running transaction check
--> Package ruby-libs.x86_64 0:2.0.0.353-20.el7 will be installed
--> Package rubygem-bigdecimal.x86_64 0:1.2.0-20.el7 will be installed
--> Package rubygems.noarch 0:2.0.14-20.el7 will be installed
--> Processing Dependency: rubygem(io-console) >= 0.4.2 for package: rubygems-2.
0.14-20.el7.noarch
--> Processing Dependency: rubygem(psych) >= 2.0.0 for package: rubygems-2.0.14-
20.el7.noarch
--> Processing Dependency: rubygem(rdoc) >= 4.0.0 for package: rubygems-2.0.14-2
0.el7.noarch
--> Running transaction check
--> Package rubygem-io-console.x86_64 0:0.4.2-20.el7 will be installed
--> Package rubygem-psych.x86_64 0:2.0.0-20.el7 will be installed
--> Package rubygem-rdoc.noarch 0:4.0.0-20.el7 will be installed
--> Processing Dependency: ruby(irb) = 2.0.0.353 for package: rubygem-rdoc-4.0.0
-20.el7.noarch
--> Processing Dependency: rubygem(json) >= 1.7.7 for package: rubygem-rdoc-4.0.
0-20.el7.noarch
--> Running transaction check

```

## (a) Yum Install

```

Installed:
ruby.x86_64 0:2.0.0.353-20.el7

Dependency Installed:
ruby-irb.noarch 0:2.0.0.353-20.el7      ruby-libs.x86_64 0:2.0.0.353-20.el7      rubygem-bigdecimal.x86_64 0:1.2.0-20.el7
rubygem-io-console.x86_64 0:0.4.2-20.el7  rubygem-json.x86_64 0:1.7.7-20.el7      rubygem-psych.x86_64 0:2.0.0-20.el7
rubygem-rdoc.noarch 0:4.0.0-20.el7      rubygems.noarch 0:2.0.14-20.el7

Complete!
[root@server1 ~]# █

```

## (b) Ruby successfully installed

```

[root@server1 ~]# yum repolist
Loaded plugins: langpacks
repolist: 0
[root@server1 ~]# █

```

## (c) RHEL dvd removal

```

[root@server1 ~]# wget http://classroom/pub/materials/wonderwidgts-1.0-4.x86_64.rpm
--2020-02-29 06:06:17-- http://classroom/pub/materials/wonderwidgts-1.0-4.x86_64.rpm
Resolving classroom (classroom)... 172.25.254.254
Connecting to classroom (classroom)[172.25.254.254]:80... connected.
HTTP request sent, awaiting response... 200 OK
length: 5000 (4.9K) [application/x-rpm]
Saving to: 'wonderwidgts-1.0-4.x86_64.rpm'

00%[.....] 5,000 --.-K/s in 0s

302-02-29 06:06:17 (225 MB/s) - "wonderwidgts-1.0-4.x86_64.rpm" saved [5000/5000]

[root@server1 ~]# rpm -q -p wonderwidgts-1.0-4.x86_64.rpm
wonderwidgts-1.0-4.x86_64
[root@server1 ~]# rpm -q -p wonderwidgts-1.0-4.x86_64.rpm -l
/etc/wonderwidgts.conf
/usr/bin/wonderwidgts
/usr/share/doc/wonderwidgts-1.0
/usr/share/doc/wonderwidgts-1.0/README.txt
[root@server1 ~]# █

```

## (d) Wonderwidgts

Figure 1: Running the commands in Chapter 13 Labs

## Chapter 14

i) Make a symbolic link of the `/etc/hosts` in your home directory. Provide a detailed list of the files in your home directory. As you can see in You can see in Fig. 2 a on Pg. 3 I ran `ln -s /etc/hosts /home/student` and then ran `ls -al` to get the output of the directory.

ii) Find out the size, used, and available space of all mounted file systems. Provide the output in human-readable format.

I ran the command `df -h` to get a human readable output of the filesystems, as you can see in You can see in Fig. 2 b on Pg. 3.

iii) Search the filesystem for the location of the `redhat-release` file. Provide the output of the location.

I ran the command `locate redhat-release` the output of which you can see You can see in Fig. 2 c on Pg. 3.

```
[root@server1 ~]# ln -s /etc/hosts /home/student/
[root@server1 ~]# exit
logout
[student@server1 ~]$ ls -al
total 40
drwx----- 14 student student 4096 Feb 29 06:35 .
drwxr-xr-x.  3 root    root    28 Jan 6 2015 ..
-rw-----  1 student student 122 Dec 21 2015 .bash_history
-rw-r--r--  1 student student 18 Jan 29 2014 .bash_logout
-rw-r--r--  1 student student 193 Jan 29 2014 .bash_profile
-rw-r--r--  1 student student 231 Jan 29 2014 .bashrc
drwx----- 10 student student 4096 Oct 27 2015 .cache
drwxr-xr-x. 14 student student 4096 Apr 20 2015 .config
drwxr-xr-x.  2 student student  6 Apr 20 2015 Desktop
drwxr-xr-x.  2 student student  6 Apr 20 2015 Documents
drwxr-xr-x.  2 student student  6 Apr 20 2015 Downloads
-rw-----  1 student student 16 Apr 20 2015 .esd_auth
lrwxrwxrwx.  1 root    root    10 Feb 29 06:35 hosts -> /etc/hosts
-rw-----  1 student student 6518 Feb 29 05:51 .ICEauthority
drwx-----  3 student student 18 Apr 20 2015 .local
drwxr-xr-x.  2 student student  6 Apr 20 2015 Music
drwxr-xr-x.  2 student student  6 Apr 20 2015 Pictures
drwxr-xr-x.  2 student student  6 Apr 20 2015 Public
drwx-----  2 student student 28 Jan 6 2015 .ssh
drwxr-xr-x.  2 student student  6 Apr 20 2015 Templates
drwxr-xr-x.  2 student student  6 Apr 20 2015 Videos
[student@server1 ~]$
```

(a) Soft link to home dir

```
[student@server1 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda1       10G   3.1G   7.0G  31% /
devtmpfs        902M   0   902M   0% /dev
tmpfs           918M  148K   917M   1% /dev/shm
tmpfs           918M   17M   901M   2% /run
tmpfs           918M   0   918M   0% /sys/fs/cgroup
[student@server1 ~]$
```

(b) Filesystems

```
[student@server1 ~]$ locate redhat-release
/etc/redhat-release
/etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release
/usr/share/redhat-release
/usr/share/doc/redhat-release
/usr/share/doc/redhat-release/GPL
/usr/share/redhat-release/EULA
[student@server1 ~]$
```

(c) Running the locate command

Figure 2: Screenshots of commands from Chapter 14