

## **Module 2: Package management & Process monitoring**

### **Assignment**

#### **1 - Restart your system from the terminal** (init 6 on CentOS6)

```
[root@server1 ~]#  
[root@server1 ~]# whoami;pwd;date;uname -a  
root  
/root  
Thu Apr 27 16:20:28 CEST 2017  
Linux server1.example.com 3.10.0-514.el7.x86_64 #1 SMP Tue Nov 22 16:42:41 UTC 2016 x86_64  
x86_64 x86_64 GNU/Linux  
[root@server1 ~]#  
[root@server1 ~]#  
[root@server1 ~]# systemctl reboot -f  
[akmtir@server1 ~]$ whoami;pwd;  
akmtir  
/home/akmtir  
[akmtir@server1 ~]$ su -  
Password:  
Last login: Thu Apr 27 16:04:57 CEST 2017 on pts/0  
[root@server1 ~]#  
[root@server1 ~]# whoami;pwd;date  
root  
/root  
Thu Apr 27 16:27:36 CEST 2017  
[root@server1 ~]#
```

#### **2- List all Installed rpm's**

```
[root@server1 ~]#  
[root@server1 ~]# rpm -qa | wc -l  
1413  
[root@server1 ~]#  
[root@server1 ~]# rpm -qa | head -10  
libmusicbrainz5-5.0.1-9.el7.x86_64  
make-3.82-23.el7.x86_64  
xorg-x11-server-common-1.17.2-22.el7.x86_64  
libofa-0.9.3-24.el7.x86_64  
at-3.1.13-22.el7.x86_64  
liberation-fonts-common-1.07.2-15.el7.noarch  
gupnp-0.20.13-1.el7.x86_64
```

```
liberation-sans-fonts-1.07.2-15.el7.noarch
xorg-x11-drv-evdev-2.9.2-2.el7.x86_64
spice-protocol-0.12.11-1.el7.noarch
[root@server1 ~]#
```

### 3 – Verify the package

```
[root@server1 ~]#
[root@server1 ~]# rpm -Va
....L.... c /etc/pam.d/fingerprint-auth
....L.... c /etc/pam.d/password-auth
....L.... c /etc/pam.d/postlogin
....L.... c /etc/pam.d/smartcard-auth
....L.... c /etc/pam.d/system-auth
^C[root@server1 ~]#
[root@server1 ~]#
[root@server1 ~]#
[root@server1 ~]#
[root@server1 ~]# rpm -qf /usr/bin/make
make-3.82-23.el7.x86_64
[root@server1 ~]#
[root@server1 ~]# rpm -vVf /usr/bin/make
..... /usr/bin/gmake
..... /usr/bin/make
..... /usr/share/doc/make-3.82
..... d /usr/share/doc/make-3.82/AUTHORS
..... d /usr/share/doc/make-3.82/COPYING
..... d /usr/share/doc/make-3.82/NEWS
..... d /usr/share/doc/make-3.82/README
..... d /usr/share/info/make.info-1.gz
..... d /usr/share/info/make.info-2.gz
..... d /usr/share/info/make.info.gz
..... /usr/share/locale/be/LC_MESSAGES/make.mo
..... /usr/share/locale/da/LC_MESSAGES/make.mo
..... /usr/share/locale/de/LC_MESSAGES/make.mo
..... /usr/share/locale/es/LC_MESSAGES/make.mo
..... /usr/share/locale/fi/LC_MESSAGES/make.mo
..... /usr/share/locale/fr/LC_MESSAGES/make.mo
..... /usr/share/locale/ga/LC_MESSAGES/make.mo
..... /usr/share/locale/gl/LC_MESSAGES/make.mo
..... /usr/share/locale/he/LC_MESSAGES/make.mo
..... /usr/share/locale/hr/LC_MESSAGES/make.mo
..... /usr/share/locale/id/LC_MESSAGES/make.mo
..... /usr/share/locale/it/LC_MESSAGES/make.mo
```

```

..... /usr/share/locale/ja/LC_MESSAGES/make.mo
..... /usr/share/locale/ko/LC_MESSAGES/make.mo
..... /usr/share/locale/lt/LC_MESSAGES/make.mo
..... /usr/share/locale/nl/LC_MESSAGES/make.mo
..... /usr/share/locale/pl/LC_MESSAGES/make.mo
..... /usr/share/locale/pt_BR/LC_MESSAGES/make.mo
..... /usr/share/locale/ru/LC_MESSAGES/make.mo
..... /usr/share/locale/sv/LC_MESSAGES/make.mo
..... /usr/share/locale/tr/LC_MESSAGES/make.mo
..... /usr/share/locale/uk/LC_MESSAGES/make.mo
..... /usr/share/locale/vi/LC_MESSAGES/make.mo
..... /usr/share/locale/zh_CN/LC_MESSAGES/make.mo
..... d /usr/share/man/man1/gmake.1.gz
..... d /usr/share/man/man1/make.1.gz
[root@server1 ~]#
[root@server1 ~]#
[root@server1 ~]# rpm -Vf /usr/bin/make
[root@server1 ~]#
[root@server1 ~]#

```

## 4 – Remove any installed packages and install it again using YUM

```

[root@server1 ~]#
[root@server1 ~]# whatis yum
yum (8)          - Yellowdog Updater Modified
[root@server1 ~]#
[root@server1 ~]#
[root@server1 ~]# yum install telnet -y
Loaded plugins: fastestmirror, langpacks
base                                                    | 3.6 kB  00:00:00
extras                                                  | 3.4 kB  00:00:00
updates                                                 | 3.4 kB  00:00:00
Loading mirror speeds from cached hostfile
* base: mirror.amsiohosting.net
* extras: mirror.prolocation.net
* updates: mirror.amsiohosting.net
Resolving Dependencies
--> Running transaction check
---> Package telnet.x86_64 1:0.17-60.el7 will be installed
--> Finished Dependency Resolution

```

Dependencies Resolved

```

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=====
Package                Arch                Version                Repository                Size

```

Installing:

telnet x86\_64 1:0.17-60.el7 base 63 k

### Transaction Summary

Install 1 Package

Total download size: 63 k

Installed size: 113 k

Downloading packages:

warning: /var/cache/yum/x86\_64/7/base/packages/telnet-0.17-60.el7.x86\_64.rpm: Header V3

RSA/SHA256 Signature, key ID f4a80eb5: NOKEY

Public key for telnet-0.17-60.el7.x86\_64.rpm is not installed

telnet-0.17-60.el7.x86\_64.rpm | 63 kB 00:00:00

Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Importing GPG key 0xF4A80EB5:

Userid : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org>"

Fingerprint: 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5

Package : centos-release-7-3.1611.el7.centos.x86\_64 (@anaconda)

From : /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Installing : 1:telnet-0.17-60.el7.x86\_64 1/1

Verifying : 1:telnet-0.17-60.el7.x86\_64 1/1

Installed:

telnet.x86\_64 1:0.17-60.el7

Complete!

[root@server1 ~]#

[root@server1 ~]#

[root@server1 ~]#

[root@server1 ~]# yum remove telnet -y

Loaded plugins: fastestmirror, langpacks

Resolving Dependencies

--> Running transaction check

---> Package telnet.x86\_64 1:0.17-60.el7 will be erased

--> Finished Dependency Resolution

Dependencies Resolved

Package	Arch	Version	Repository	Size
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Removing:

telnet	x86_64	1:0.17-60.el7	@base	113 k
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Transaction Summary

Remove 1 Package

Installed size: 113 k

Downloading packages:

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Erasing	: 1:telnet-0.17-60.el7.x86_64	1/1
Verifying	: 1:telnet-0.17-60.el7.x86_64	1/1

Removed:

telnet.x86\_64 1:0.17-60.el7

Complete!

[root@server1 ~]#

[root@server1 ~]#

## 5 – List your repository

[root@server1 ~]#

[root@server1 ~]# yum list all | head -20

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

\* base: mirror.amsiohosting.net

\* extras: mirror.prolocation.net

\* updates: mirror.amsiohosting.net

Installed Packages

GConf2.x86_64	3.2.6-8.el7	@anaconda
GeoIP.x86_64	1.5.0-11.el7	@anaconda
LibRaw.x86_64	0.14.8-5.el7.20120830git98d925	@anaconda
ModemManager.x86_64	1.6.0-2.el7	@anaconda
ModemManager-glib.x86_64	1.6.0-2.el7	@anaconda
NetworkManager.x86_64	1:1.4.0-12.el7	@anaconda
NetworkManager-adsl.x86_64	1:1.4.0-12.el7	@anaconda

NetworkManager-bluetooth.x86_64	1:1.4.0-12.el7	@anaconda
NetworkManager-glib.x86_64	1:1.4.0-12.el7	@anaconda
NetworkManager-libnm.x86_64	1:1.4.0-12.el7	@anaconda
NetworkManager-libreswan.x86_64	1.2.4-1.el7	@anaconda
NetworkManager-libreswan-gnome.x86_64	1.2.4-1.el7	@anaconda
NetworkManager-team.x86_64	1:1.4.0-12.el7	@anaconda

Exiting on Broken Pipe

[root@server1 ~]#

## 6 – List the information of the installed package httpd

[root@server1 ~]#

[root@server1 ~]#

**[root@server1 ~]# yum info httpd**

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

\* base: mirror.amsiohosting.net

\* extras: mirror.prolocation.net

\* updates: mirror.amsiohosting.net

Available Packages

Name : httpd

Arch : x86\_64

Version : 2.4.6

Release : 45.el7.centos.4

Size : 2.7 M

Repo : updates/7/x86\_64

Summary : Apache HTTP Server

URL : <http://httpd.apache.org/>

License : ASL 2.0

Description : The Apache HTTP Server is a powerful, efficient, and extensible  
: web server.

[root@server1 ~]#

[root@server1 ~]#